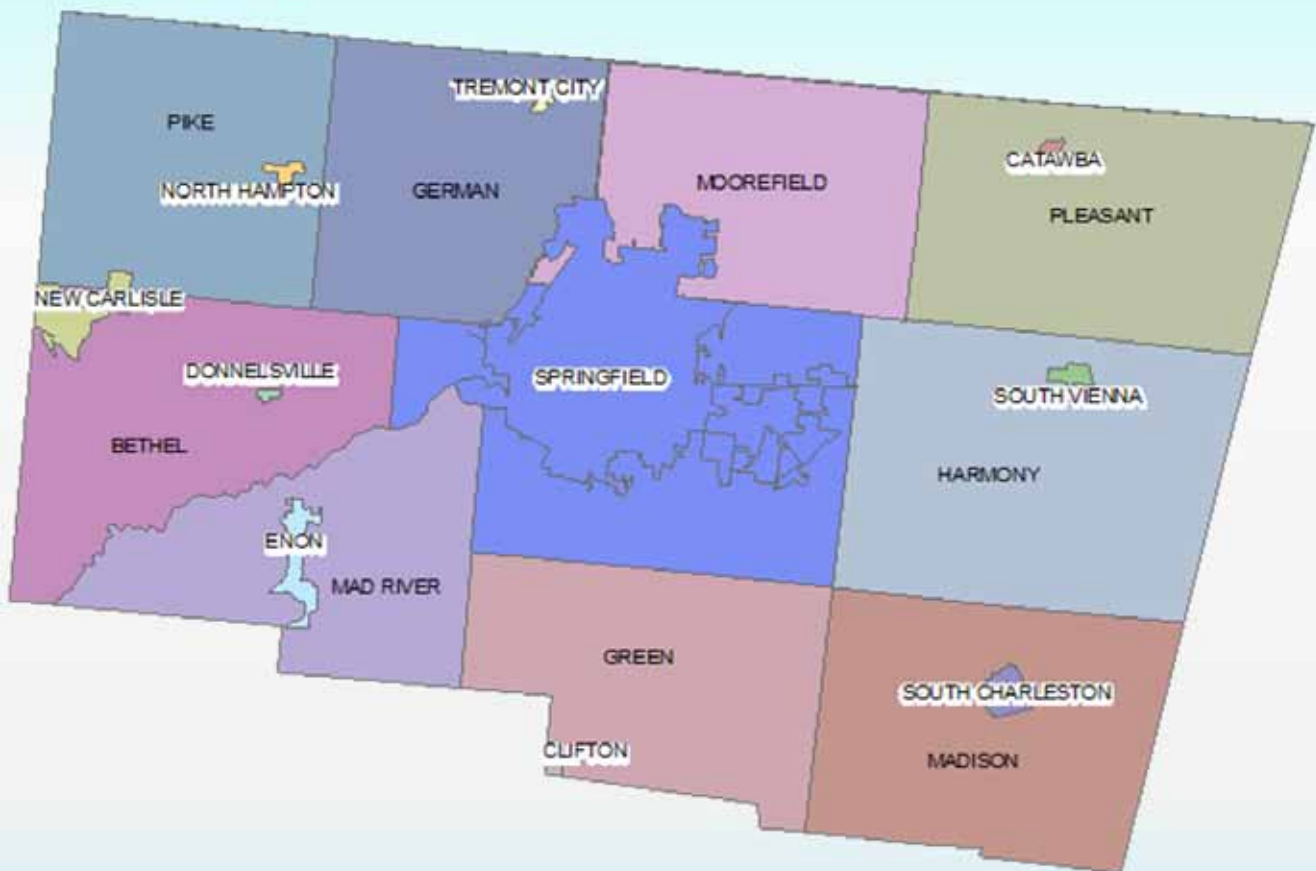


2013 – 2027
RATIFIED SOLID WASTE
MANAGEMENT PLAN UPDATE



Prepared by:

GT

Environmental, Inc.

December 13, 2012

CLARK COUNTY WASTE MANAGEMENT DISTRICT

2013-2027 RATIFIED PLAN UPDATE

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I. Introduction

The Clark County Waste Management District's (District) Mission is to ensure that comprehensive, high-quality solid waste services are available to Clark County residents and businesses, and to supply environmental education and assistance to the community that will promote cost-effective and self-supporting waste reduction programs.

A. Plan Approval Date, Counties in District, and Planning Period Length

1. Under current approved plan:

Date of Ohio EPA approval
or order to implement: November 2, 2006

Counties within District: Clark

Years in planning period: 15

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

Counties within District: Clark

Years in planning period: 15

Year 1 of the planning period: 2013

B. Reason for Plan Submittal

Mandatory five-year plan update.

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

In accordance with ORC 3734.56(D), the *Plan Update* must be revised if the Board of Directors (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 implement the Solid Waste Plan. The criteria used to make the determination of material change are as follows:

- Reduction in Available Capacity
- Increase in Waste Generation
- Delay in Program Implementation

- Discontinuance of Essential Waste Reduction or Recycling Activities
- Decrease in Waste Generation
- Adequately finance implementation of the Plan

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

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

1. Assurance of Waste Disposal Capacity

(a) Reduction in Available Capacity

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

The Board will convene within 90 days of the closure of a landfill utilized by the District to determine whether alternate capacity is available to the District or whether a material change in circumstances has occurred.

(b) Increase in Waste Generation

Future capacity needs of the District as outlined in the *Plan Update* are based on waste generation estimates. A significant increase in solid waste generation within the District may affect capacity requirements and result in diminished capacity for handling or disposing of solid waste. A material change in circumstances may have occurred if waste generation increases, and the increase has a significant adverse impact on capacity for handling or disposing of solid waste generated within the District at facilities designated and identified in the *Plan Update*. A material change in circumstances has not occurred, however, if the private sector can secure arrangements to manage the increased waste volume at any other properly licensed and permitted solid waste management facility.

The District Coordinator will, during the term of the *Plan Update*, periodically review waste generation figures and report to the Board on an as needed basis a significant increase, as reported by the District Coordinator, in solid waste generation within the District that warrants the Board's consideration of whether there is adequate capacity available to handle or dispose of the increased solid waste volume. The Board shall review the report and the availability of capacity for District solid waste and determine whether sufficient capacity is available to the District.

2. Compliance with Waste Reduction Goal

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

Pursuant to the Ohio Revised code, the Ohio Administrative Code, and the State Plan, the District has established specific goals regarding waste reduction and recycling within the District. The District Coordinator will prepare an annual report for presentation to the Board each year of the planning period. The annual report will identify significant delays in program implementation, changes to waste reduction and recycling strategies or plan implementation for the preceding year that warrant consideration by the Board to determine whether any delay, change or impact on recycling is material. Should a significant delay in program implementation or the discontinuance of programs that result in the inability of the District to achieve the waste reduction goal, the Board shall make a determination as to whether a material change in circumstances has occurred. A material change in circumstances has not occurred, however, where the Board is able to implement new programs, modify existing programs and/or obtain new data and information to meet the waste reduction goal in this *Plan Update* as approved by the Director of Ohio EPA, to meet State of Ohio requirements.

3. Financing of Plan Implementation

- (a) Decrease in Waste Generation

District obtains revenues to finance implementation of the *Plan Update* from an \$8.50 per ton fee on the generation of solid waste within the District as authorized by section 3734.573 of the Ohio Revised Code. A significant reduction in the generation of waste within the District could result in a significant decrease in revenue and adversely affect the ability of the Board to finance implementation of the *Plan Update*. The District Coordinator will monitor revenues and report significant changes in the financial condition of the District to the Board quarterly or as needed. The Board will receive financial reports from the District Coordinator, consider such reports, and set budget and funding priorities to implement the *Plan*

Update. A material change in circumstances may have occurred where a significant reduction in revenue adversely affects the Board's ability to finance plan implementation. No material change in circumstances has occurred, however, where the Board is able to maintain programs at current funding levels through re-allocation of District funds, or through an increase in District fees, or rates and charges as permitted by the Ohio Revised Code and the Plan.

Specific timelines for determination of a material change are not provided in this policy as each situation that may arise into the future may have remedies that take varying times to implement. Providing specific timelines for situations that cannot always be determined would not be in the best interest of the District. With this said, the District's timetable for determination will be based on the facts of each situation including the possible remedies identified. The Board of Directors will determine when to declare a material change in circumstance when and only when no possible solution is identified in a reasonable timeframe at the Board's discretion.

4. Procedures Where Material Change in Circumstances has Occurred

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

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

D. District Formation and Certification Statement

Appendix A contains the resolution that formed the District. 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 members from the county. These members will include:

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

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

Policy Committee Member	Representing
Commissioner John Detrick	County Commissioner
Commissioner Karen Duncan	City of Springfield Representative
Kathy Estep	Township Representative
Charles Patterson	Health Department Representative Chair Person, Policy Committee
Tim McDaniel	Industrial Representative
Evard Flinn	Public Member
Norm Carl	Public Member

F. District Board of Directors

Name	Representing
John Detrick	County Commissioner
David Hartley	County Commissioner
Richard Lohnes	County Commissioner

G. District Address and Phone Number

Clark County Waste Management District
1602 West Main Street
Springfield, Ohio 45504

Contact: Ms. Alice Godsey
Director

Phone: 937-521-2020

Fax: 937-327-6648

Email: agodsey@clarkcountyohio.gov

H. Technical Advisory Council and Other Subcommittees

Technical Advisory Committee Member
Merritt Wichner
Connie Strobbe
Bill Cook
John Burr
Len Hartoog
Anne Kaup-Fett
Sandy Henry
Marshall Whitacre
John Balzer, III

I. Policy Committee Review of Plan Update

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

II. Executive Summary

The Clark County Waste Management District (District) is required by Section 3734.54 of the Ohio Revised Code (ORC) to periodically update its solid waste management plan (*Plan Update*). This *Plan Update* will cover a planning period beginning in 2013 and ending in 2027. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling and disposal. This *Plan Update* identifies the District's strategies for managing the District's facilities and programs and provides an assessment on achieving statewide recycling and waste reduction goals. This *Plan Update* follows Ohio EPA's format version 3.0. The format requires specific narrative information and data tables. There are nine major sections 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 – is an Executive Summary and 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 (2009).
- 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

On October 4, 1988, the Board of Commissioners of Clark County formed the Clark County Waste Management District (District) (Appendix A). The District includes all incorporated and unincorporated territory in Clark County and a small portion of neighboring Greene County (Village of Clifton).

The District first developed a solid waste management plan in 1990. Since that first plan, (which was updated in 1995, 2000, 2005 and 2011), Clark County has implemented numerous successful programs, and has facilitated and monitored the reduction of approximately 38 percent of the residential/commercial waste stream and approximately 96 percent of the industrial waste stream as of the reference year 2009.

The current Plan was approved by Ohio EPA on November 2, 2006. This *Plan Update* begins with the planning year 2009 and includes a fifteen year planning period.

Policy Committee Members

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

Policy Committee Member	Representing
Commissioner John Detrick	County Commissioner
Commissioner Karen Duncan	City of Springfield Representative
Kathy Estep	Township Representative
Charles Patterson	Health Department Representative Chair Person, Policy Committee
Tim McDaniel	Industrial Representative
Evard Flinn	Public Member
Norm Carl	Public Member

Board of Directors of the District

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

Name	Representing
John Detrick	County Commissioner
David Hartley	County Commissioner
Richard Lohnes	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:

- Reduction in Available Capacity
- Increase in Waste Generation
- Delay in Program Implementation
- Discontinuance of Essential Waste Reduction or Recycling Activities
- Decrease in Waste Generation
- Adequately finance implementation of the Plan

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

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities during the reference year (2009) of the *Plan Update*.

Inventories include the following:

- Landfills
- Transfer Facilities
- Recycling Programs
- Collection Programs
- Composting Facilities and Programs
- Open Dumps and Waste Tire Dumps
- Ash, Slag and Foundry Sand Disposal Sites
- Solid Waste Haulers

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

1. Reference Year Population

The District's 2009 reference year population of 139,623 was determined by using the 2009 Ohio Department of Development's 2009 Population Estimates for Counties, Cities, Villages and Townships. This information was obtained from the Ohio Department of Development, Office of Strategic Research.

2. Waste Generation

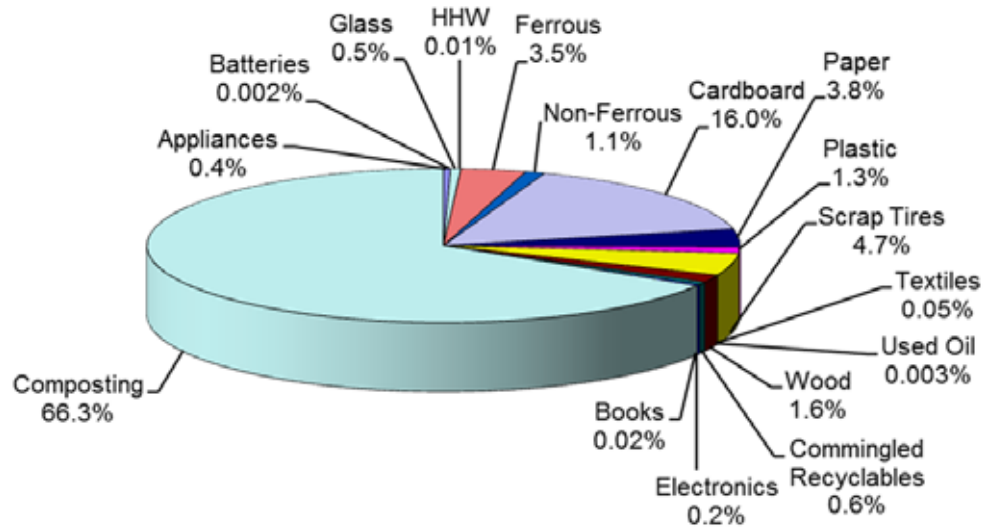
Residential and commercial waste generation was 157,009 tons including 96,651 tons landfilled (see Table III-1) and 60,358 tons recycled, including composting (see Table IV-5). Based on the District population, this is 6.16 pounds per person per day of residential/commercial waste generation.

Industrial waste generation was 58,114 tons. This includes 2,038 tons landfilled (see Table III-1) and 56,076 tons recycled (see Table IV-6). Based on the District population, this is 2.28 pounds per person per day of industrial waste generation.

3. Reference Year Waste Reduction

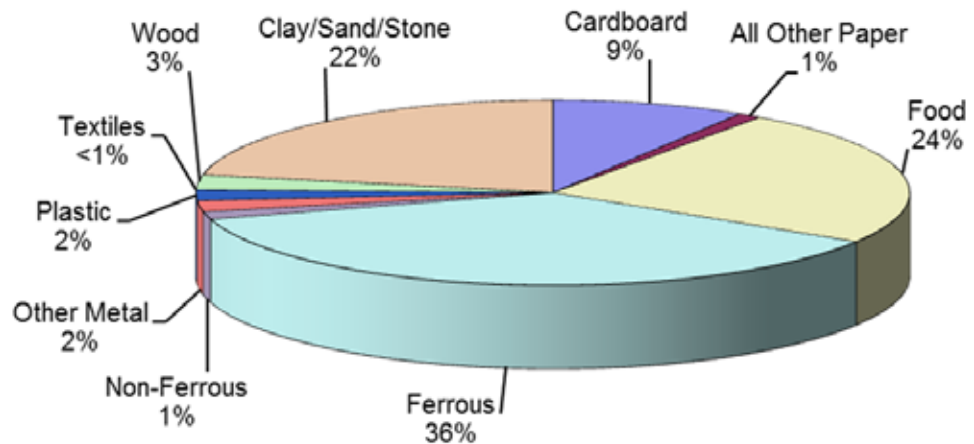
Residential/commercial waste reduction that occurred in the District during the reference year is summarized in Table IV-5. Residential/commercial waste reduction activities include curbside and drop-off collection; District sponsored special collection events, such as household hazardous waste collections and electronics collections; commercial recycling completed by commercial entities operating within the District; and composting. The following graph depicts the residential and commercial waste reduction totals as a percentage for 2009:

2009 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 2009.

2009 Industrial Waste Reduction



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

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

In 2009, the following facilities/programs were implemented:

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

Description
Clark County Recycling Center
Curbside Recycling
Contracting/Franchise Waste Collection Program
Drop-Off Recycling
Yard Waste Management
Household Hazardous Waste Collection
Electronic Recycling
Scrap Tire Recycling
Government Office Paper Recycling
Business Paper Recycling
Education and Awareness
Business Waste Reduction Assistance (BWRAP)
Litter Prevention/Clean-Up
Health Department Funding
Legal and Consulting
Operating Contingency
Recycling Contingency
Other Facilities

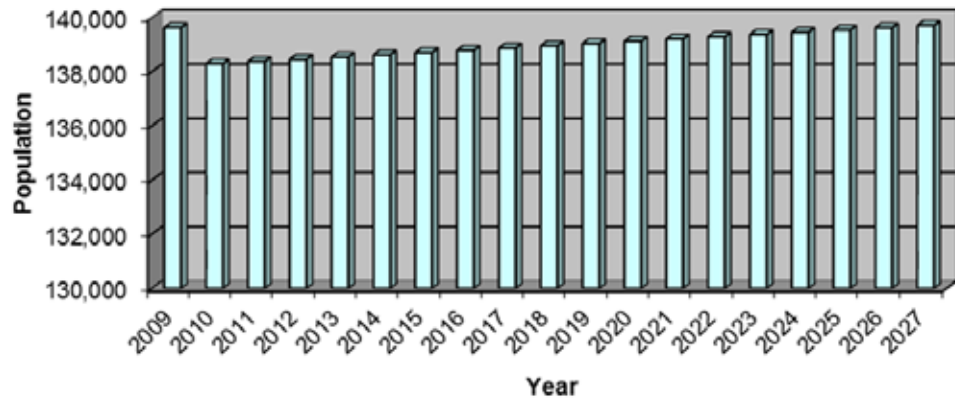
D. Section V. Planning Period Projections and Strategies

Section V includes a summary of projections of population, waste generation and recycling for the planning period (2013 to 2027). New programs and changes to existing programs are presented in this section.

1. Population Projections

The District anticipates population will increase .84% over the planning period. Population projections were made using growth rates from Ohio Department of Development's *Projected Percent Population Change 2010 to 2030* based on the growth rate of the county that each political subdivision or portion of a political subdivision is located. Projections were adjusted using 2009 and 2010 U.S. Census Bureau population data. The following graph depicts the population projections throughout the planning period.

District Population Estimate (2009 – 2027)

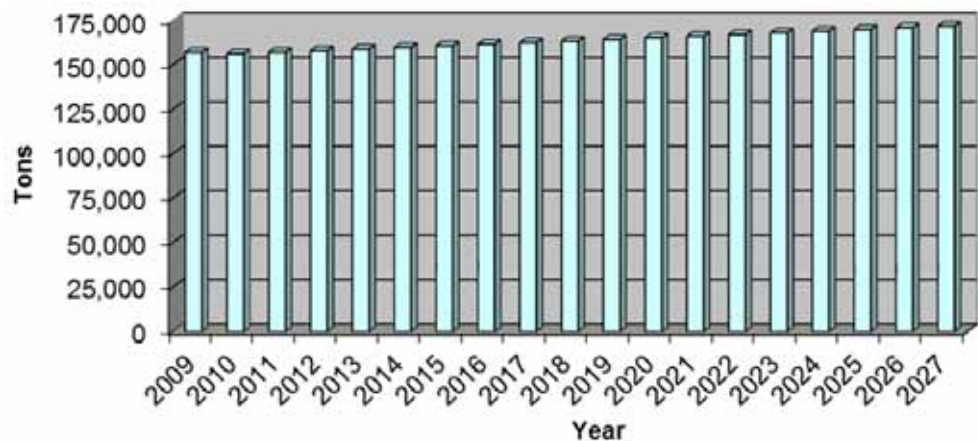


2. Waste Generation Projections

Residential/Commercial Sector

The total residential/commercial waste generation estimate for 2009 was 157,009 tons. Residential/commercial waste generation decreased in 2010 from a loss of population from using the latest census data. Waste generation is projected to increase throughout the planning period from 2013 – 2027. Beginning in 2013, the first year of the planning period, residential/commercial waste is projected to be 158,923 tons. This is expected to increase to 171,852 tons in 2027, an 8.1% increase during the planning period. The following graph depicts the residential/commercial waste generation projections throughout the planning period.

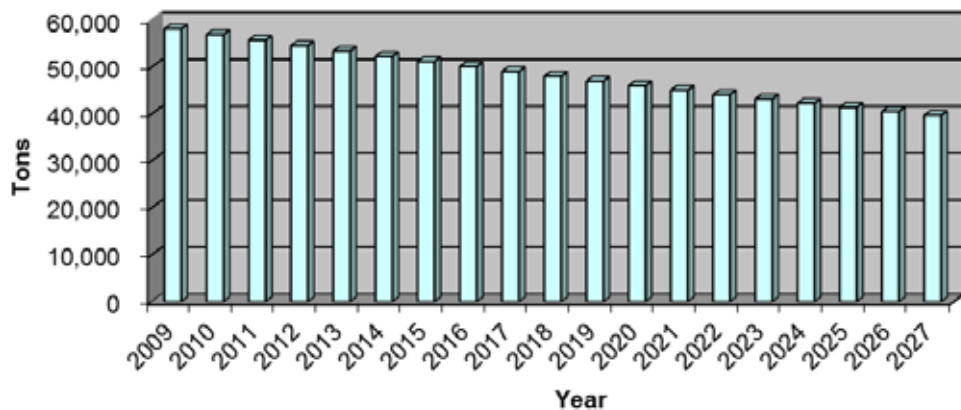
District Residential/Commercial Waste Generation (2009 – 2027)



Industrial Sector

Industrial waste generation is projected for SIC codes 20 and 22-39. The classifications are summarized in Table V-3A, “Standard Industrial Classifications”. Table V-3 presents the average annual change in employment for each SIC code. Industrial waste generation projections are based on industrial employment projections provided by the Ohio Department of Job and Family Services Job Outlook for the period 2006-2016 for the Southwest Central Economic Development Region (EDR) which included Clark County. According to the Southwest Central EDR, manufacturing employment is projected to decrease 23.10% during this period (2006 – 2016).

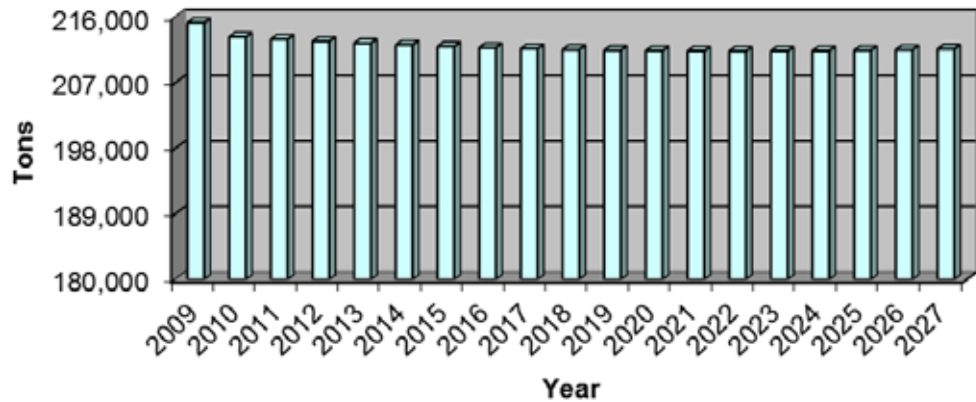
District Industrial Waste Generation (2009 – 2027)



Total Waste Generation

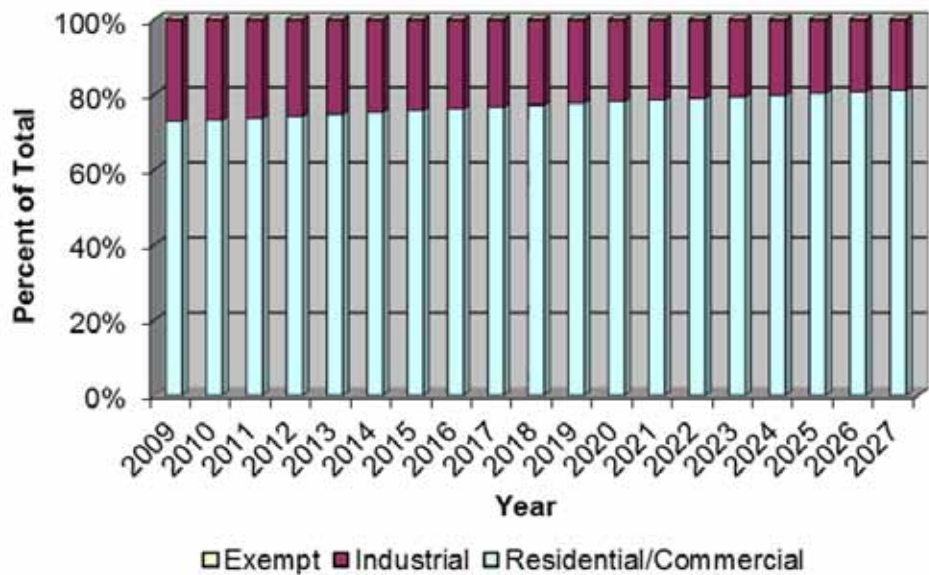
Total waste generation projections for the District during the planning period are presented in Table V-4, “Total Waste Generation for the District during the Planning Period (in TPY)”. The total waste generation estimate for the 2009 reference year was 215,258 tons. This includes residential/commercial waste (157,009 tons), industrial waste (58,114 tons), and exempt waste (135 tons).

District Total Waste Generation (2009 – 2027)



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

District Total Waste Generation by Sector (2009 – 2027)



3. Waste Reduction and Recycling Strategies through the Planning Period

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

District Strategies by State Plan Goal

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Clark County Recycling Center	CC-01		✓					
Curbside Recycling	CC-02	✓	✓					
Franchise Waste Collection Program	CC-03		✓					
Drop-Off Recycling	CC-04	✓	✓					
Yard Waste Management	CC-05		✓					
Household Hazardous Waste Collection	CC-06		✓			✓		
Electronics Recycling	CC-07		✓			✓		
Scrap Tire Collection	CC-08		✓			✓		
Government Office Recycling	CC-09		✓					
Business Paper Recycling	CC-10		✓					
Education and Awareness	CC-11			✓	✓			
Business Waste Reduction Assistance (BWRAP)	CC-12			✓	✓			
Litter Prevention/Clean-Up Programs	CC-13							
Health Department Funding	CC-14							
Legal and Consulting	CC-15							
Other Facilities	CC-16							
Curbside Recycling Grants	CC-17	✓	✓					
Food Waste Management	CC-18		✓					
Disaster Debris Management	CC-19							
Number of Strategies Per Goal		3	12	2	2	3	0	0

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 2013 to 2027.

1. District Methods for Management of Solid Waste

The net tons to be managed by the District in 2009 are calculated to be 215,258 tons. The landfill total in Table VI-1 is calculated by subtracting recycling, yard waste composted, and net incinerated tonnage from the net tons to be managed. The District projects 212,442 tons of solid waste will need to be managed in 2013 and by the end of the planning period in 2027, the District will need to manage 211,649 tons.

2. Demonstration of Access to Capacity

During the reference year, 8 landfills managed 98,824 tons of solid waste generated by District residents, businesses and industries.

Regional Capacity Analysis

The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's waste until December 31, 2028. The 8 landfills utilized by the District either directly or indirectly through transfer stations have permitted capacity to manage the District's solid waste through 2027.

3. Identification and Designation of Facilities

The District continues to support an open market for the collection, transport and disposal of solid waste. As required in Section 3734.53(A)(13)(a) of the Ohio Revised Code, the District is identifying all Ohio licensed and permitted solid waste landfill, transfer and resource recovery facilities and all licensed and permitted out-of-state landfill, transfer and resource recovery facilities. The District is also identifying recycling and composting programs and facilities that are identified in Section III Inventories.

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

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

4. Siting Strategy for Facilities

The District has a rule that requires that anyone interested in constructing, enlarging or modifying a solid waste facility within the District has to obtain approval by the Board after review of the general plans and specifications of the proposed solid waste facility or modification of an existing solid waste facility. See Sections VI and IX for more details.

5. Contingencies for Capacity Assurance and District Program Implementation

The District will implement the contingency plan outlined in Section VI of the *Plan Update* if landfills or transfer facilities that service the District are required to close operations for a period of

time that would be detrimental to the health and safety of District residents.

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

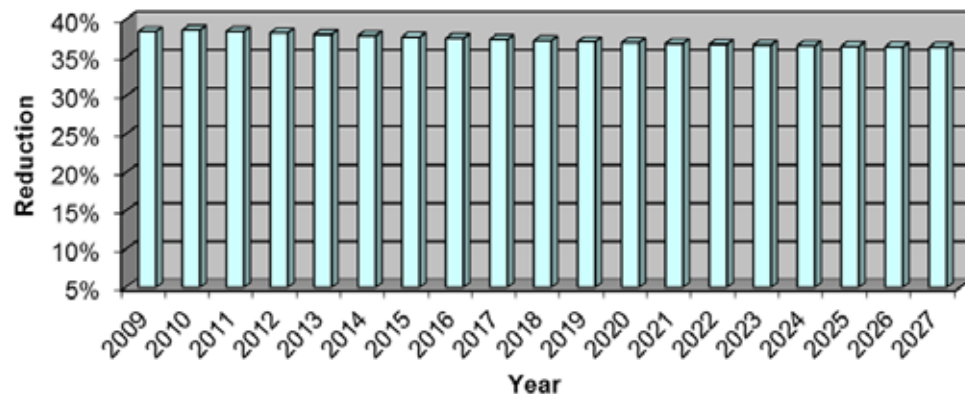
The District annually conducts a comprehensive survey that has consistently provided high quality waste reduction data over the last several years. This data, coupled with District waste generation, has resulted in the District achieving, in the reference year, a 38% waste reduction rate in the residential/commercial sector and a 96% waste reduction rate in the industrial sector. Based on this data and past historical performance, the District has demonstrated compliance with Goal #2 of the 1995 State Solid Waste Management Plan. Goal #2 requires solid waste districts to:

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

1. Compliance with Goal #2

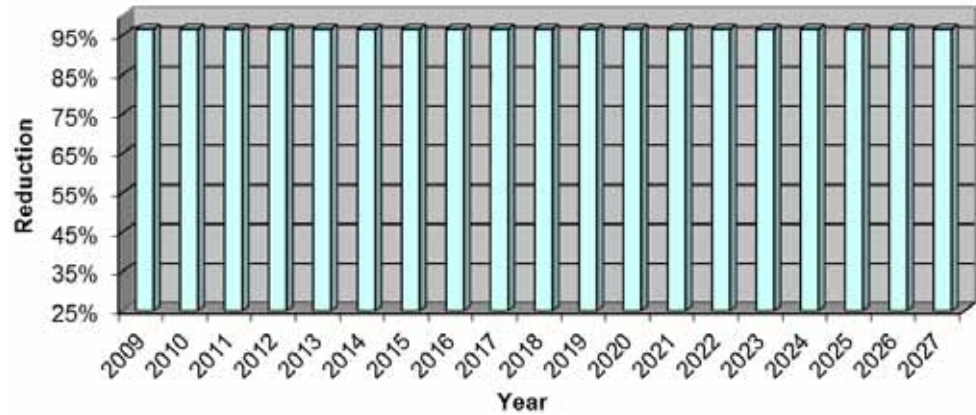
In the 2009 reference year, approximately 38% of the District’s residential/commercial waste stream was reduced. This percentage reflects tonnage that was diverted from landfill disposal by recycling and composting. The residential/commercial waste reduction percentage rate is expected to gradually increase to more than 36% by the end of the planning period as depicted by the following chart.

**Residential/Commercial Waste Reduction Percentage
(2009 – 2027)**



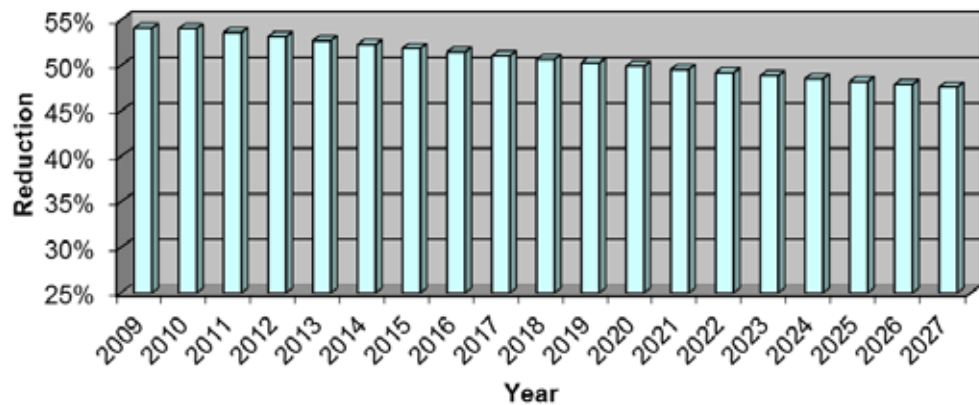
The industrial sector had a waste reduction rate of approximately 96% in 2009, and will remain steady throughout the planning period as indicated by the following chart.

Industrial Waste Reduction Percentage (2009 – 2027)



The District’s annual waste reduction rate for the reference year was 54%. The District projects the total waste reduction rate will decrease to 48% by the end of the planning period (2027). The following figure depicts the District’s projected waste reduction rate over the planning period for the residential/commercial and industrial sectors combined:

Total District Waste Reduction Percentage (2009 – 2027)



G. Section VIII. Cost of Financing Plan Implementation

1. Funding Mechanisms

a. District Disposal Fees

The District’s in-district solid waste disposal fee is \$2.00 per ton.

The District’s out-of-district solid waste disposal fee is \$4.00 per ton. Out-of-state waste is charged the same rate as in-district solid waste at \$2.00 per ton.

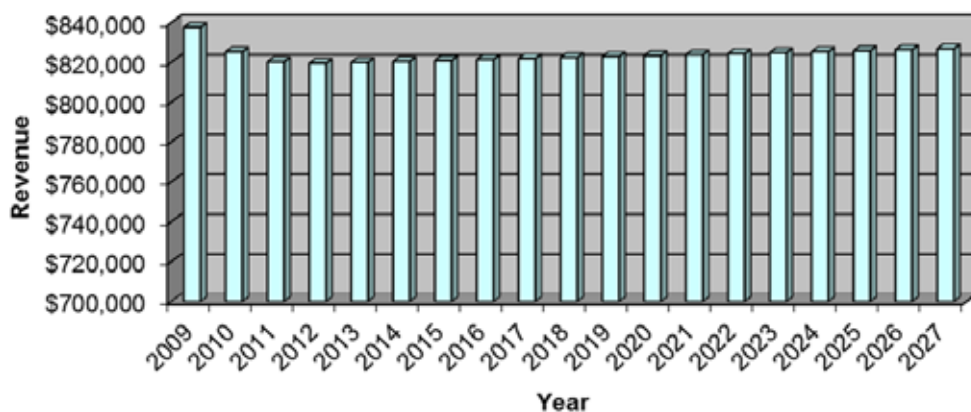
With no in-District landfill in operation or no permit to install for a new landfill or transfer station currently being reviewed by Ohio EPA, it is not possible for the District to estimate the annual disposal quantities that an in-District landfill or transfer station would receive. Subsequently, the level of any disposal fee that will be required to generate adequate revenue to implement the District’s plan cannot be estimated.

b. Generation Fee

In accordance with Section 3734.573 of the Ohio Revised Code and under the District’s current solid waste management plan, the District instituted an \$8.50 per ton generation fee. The generation fee will continue to be collected by the receiving transfer stations, landfills or any other applicable solid waste facility for each ton of solid waste originating within the District and disposed in the State of Ohio. These monies will be forwarded to the District pursuant to Section 3745-28-03 of the Ohio Administrative Code.

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

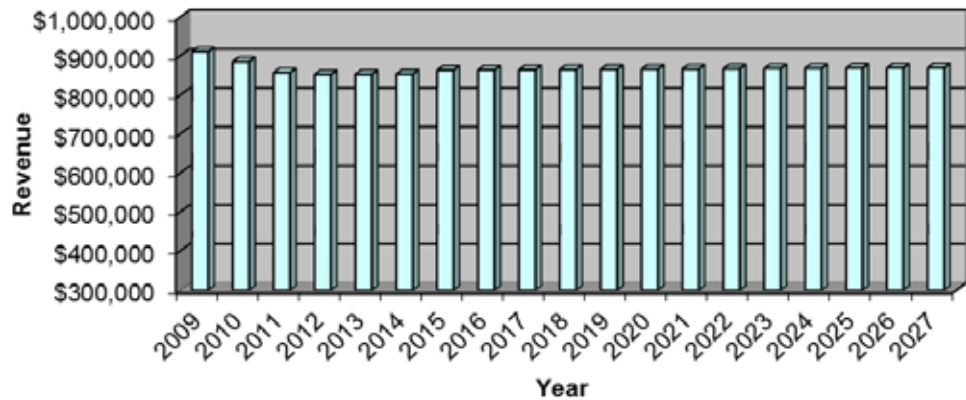
2009 – 2027 Generation Fees



Estimated revenues include generation fees, user fees, recycling revenue, grants, reimbursements and miscellaneous revenue.

The following graph depicts the District’s total actual and projected revenue from 2009 – 2027 and includes all anticipated revenue sources identified above.

2009 – 2027 District Revenue

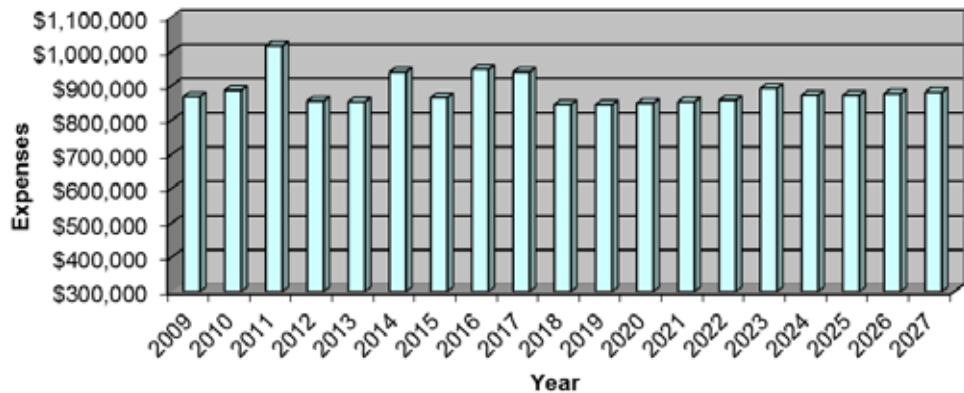


2. Cost of Plan Implementation

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

The District is projecting to spend \$853,568 in 2013, the first year of the planning period and \$881,906 in 2027, the final year of the planning period. The following chart summarizes the District's actual and projected expenses throughout the planning period.

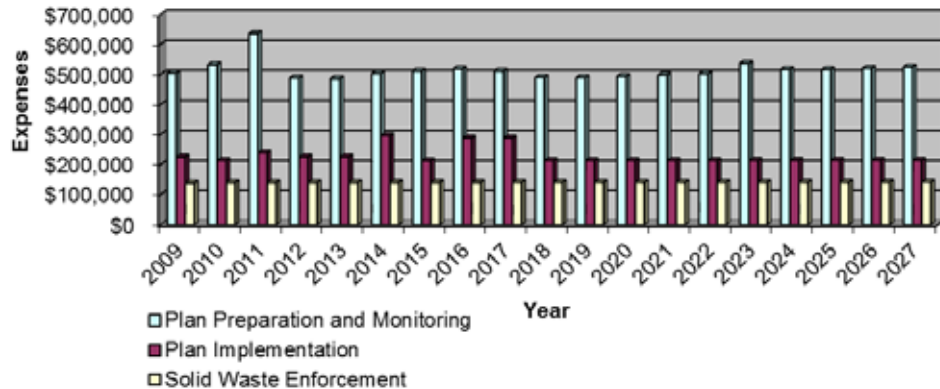
2009 – 2027 District Expenses



The District's budget falls into three categories: preparation and monitoring of plan implementation, implementation of the approved plan, and solid waste enforcement.

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

District Expense Distribution 2009 – 2027



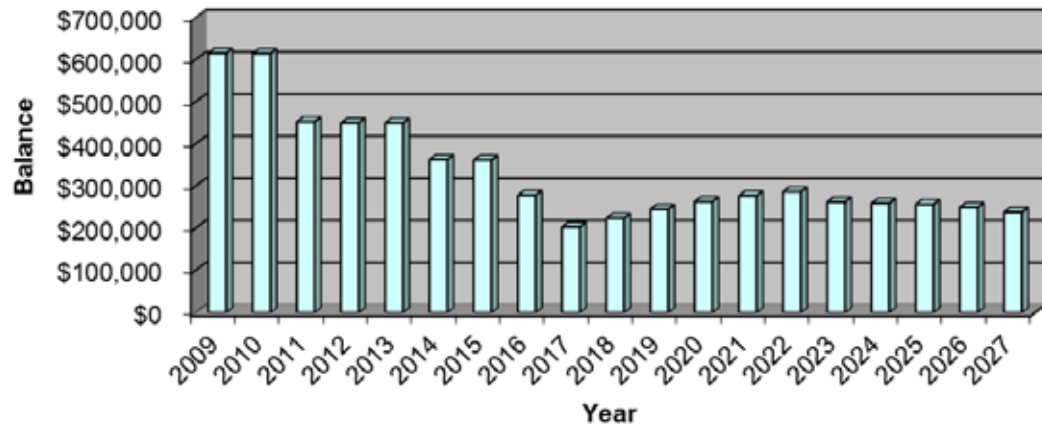
3. Contingent Funding

The District and its Board do not consider funding to be an issue of concern during this planning period. The following contingent funding procedure includes options for increasing the District’s generation fee if warranted. Prior to increasing the generation fee, the District will evaluate the estimated expenditures in Table VIII-5 to determine the minimum annual budget to sustain the District’s essential strategies, facilities, programs and activities and finance implementation of the District Plan. If an increase in the generation is justified, the District Board will request that the District Policy Committee approve the increase of the generation fee and obtain ratification of that increase.

4. Summary of Costs and Revenues

A summary of District revenues and expenditures for each year of the planning period is included in Table VIII-8. The District has a positive year end cash flow for each year of the planning period. At the end of the planning period in 2027, the District projects a carryover of approximately \$238,000. The following figure presents the District’s year-end cash flow from 2009 through 2027.

District Fund Balance 2009 – 2027



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

1. Existing Rules

The District has one rule (1-796) that was adopted on March 16, 2000. This rule governs the construction and modification of solid waste facilities in the District. See Section IX for the full text of the rule.

The District continues to reserve 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).

2. Proposed Rules

The Board of Directors of the Clark County Waste Management District have decided that at this time no rules will be made, published, or enforced in accordance with divisions (G)(1), (2), and (3) of Section 343.01 of the Ohio Revised Code and divisions (C)(1), (2), (3), and (4) of Section 3734.53 of the Ohio Revised Code.

**Table ES-1
General Information**

District Name: Clark County Waste Management District			
District ID #	Reference Year 2009	Planning Period 2013-2027	
(for OEPA use only)			
Plan Status (underline one)			
D	<u>RD</u>	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: Ms. Alice Godsey, District Coordinator			
Street: 1602 West Main Street			
City: Springfield		State: Ohio	Zip: 45504
Phone: (937) 521-2021		Fax: (937) 327-6648	

**Table ES-3
Plan Data Summary**

Plan Data		Reference Year 2009	2017 (year 5)	2022 (year 10)	2027 (year 15)
Population		139,623	138,866	139,283	139,701
Generation	Industrial	58,114	49,039	44,102	39,662
	Residential/Commercial	157,009	162,514	167,118	171,852
	Exempt	135	135	135	135
Total Generation (tons)		215,258	211,689	211,355	211,649
Waste Reduction	Industrial Source Reduction	0	0	0	0
	Industrial Recycling	56,076	47,319	42,555	38,271
	Res/Comm Source	0	0	0	0
	Res/Comm Recycling	20,354	20,577	21,135	22,066
	Yard Waste Composting	40,004	40,196	40,317	40,438
	MSW Composting	0	0	0	0
	Incineration	0	0	0	0
Total Waste Reduction (tons)		116,434	108,093	104,007	100,775
Disposal	In-District Landfills	0	0	0	0
	Out of District Landfills	98,824	103,596	107,347	110,873
Total Landfill (tons)		98,824	103,596	107,347	110,873
Waste Reduction Rate	Industrial	96%	96%	96%	96%
	Residential/Commercial	38%	37%	37%	36%

**Table ES-4
Existing Disposal Facilities**

Name	County	District Tons	Total Tons	Years Left
In-District Facilities				
None	N/A	0	0	N/A
Out-of-District Facilities				
Cherokee Run	Logan	4,801	199,368	13
Stony Hollow	Montgomery	34,801	584,688	5
Rumpke - Hughes Road	Hamilton	25	1,592,136	16
Suburban	Fairfield	1	725,400	20
Pine Grove	Fairfield	29	271,440	56
SWACO	Franklin	100	890,448	31
Rumpke-Brown County	Brown	59,066	531,024	64
Crawford County	Crawford	1	269,568	6
Out-of-State				
None	n/a	0	N/A	N/A
Total (Average Years)		98,824	5,064,072	26

III. Inventories

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

This section establishes a reference year for use in all subsequent parts of the plan and updates information previously collected for the baseline year. Also contained in this section is information for all existing solid waste disposal, recycling, and transfer facilities, which were used by the District in the reference year as reported by survey respondents, District knowledge and third party data providers. Facilities listed in the tables that follow are grouped according to their location in-District, out-of-District, or out-of-state. In addition, results from open dump and solid waste hauler inventories are listed.

A. The Reference Year

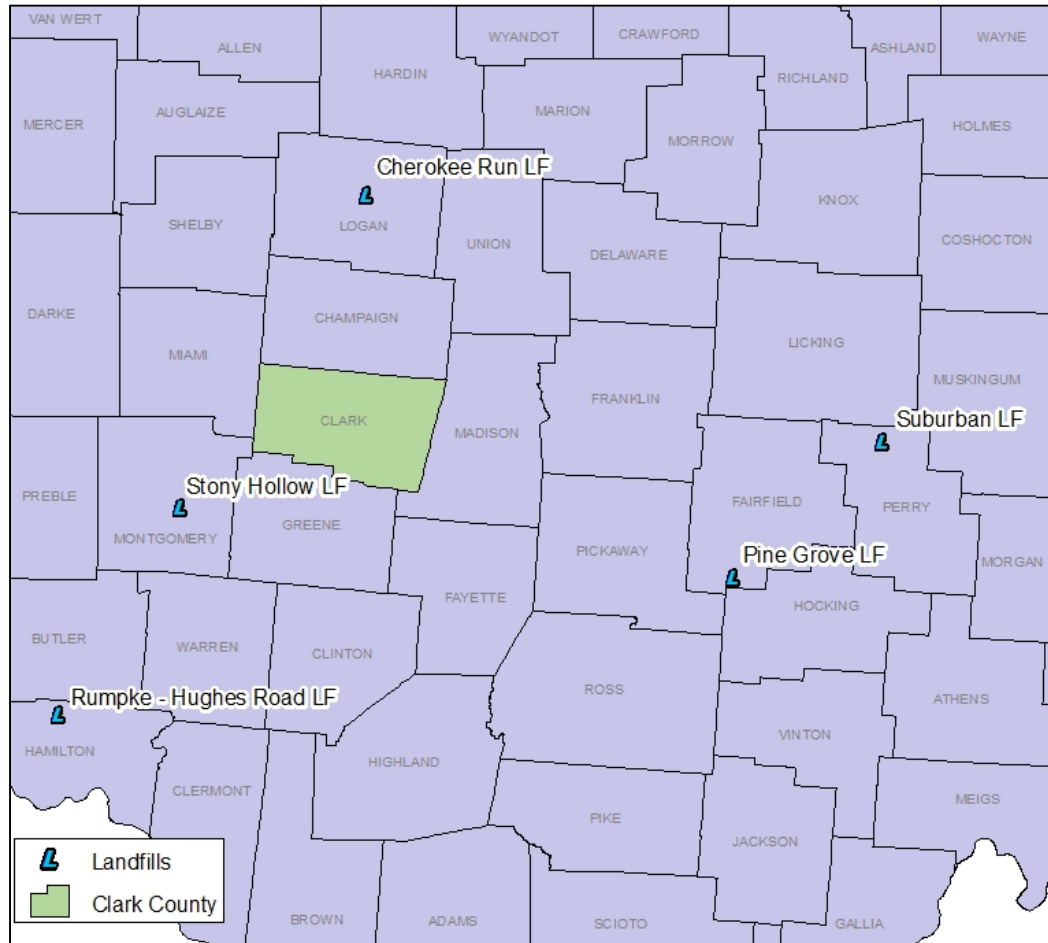
In accordance with ORC 3734.56(A), the District began preparation of the revised plan on August 2, 2010, 15 months prior to the required submittal date of November 2, 2011. Therefore, the District will use calendar year 2009 as a reference year for all subsequent projections in the plan.

B. Existing Solid Waste Landfills

Table III-1, "Landfills Used by the District" presents a list of all in-District, out-of-District and out-of-state publicly available and captive existing landfill facilities used by the District. Information in this section has been obtained through results from surveys, landfill facility disposal records and logs, records from facilities, transfer station reports, waste hauler records, and direct inquiry.

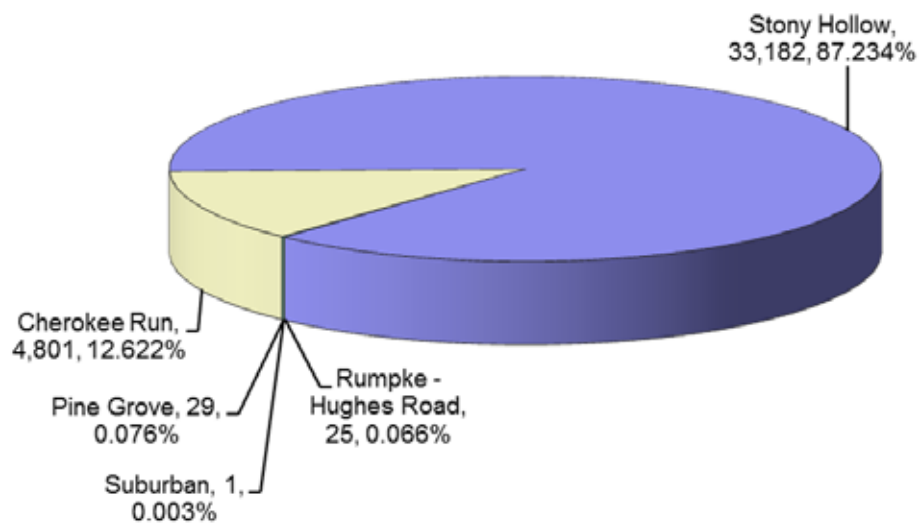
The District utilized 5 out-of-district landfills that provided disposal capacity for District waste. Approximately 38,000 tons of solid waste was disposed by District residents, commercial businesses and industry in 2009. Of this total, 36,000 tons of solid waste came from the residential/commercial sector. The industrial sector disposed of 1,900 tons of solid waste and the District disposed of 135 tons of exempt waste in 2009.

Landfill Facilities Used for Clark County Solid Waste in 2009



The following chart depicts the out-of-district landfills used in 2009:

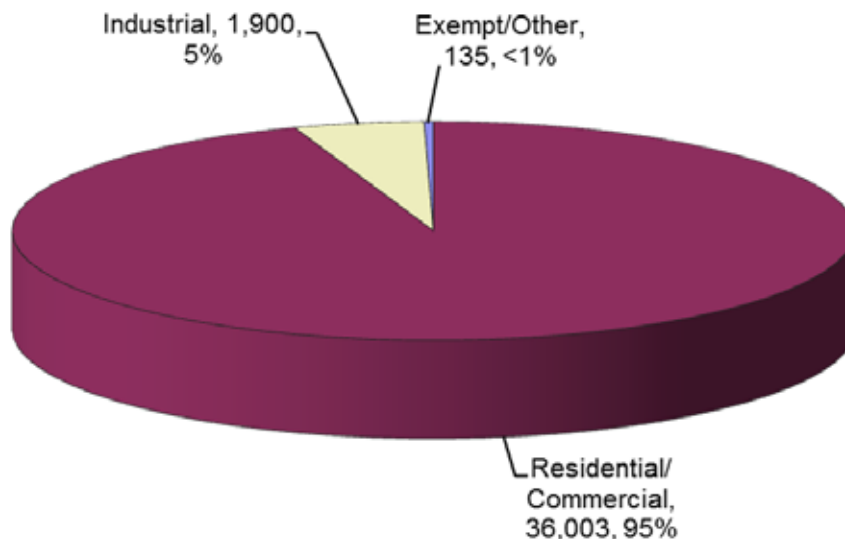
Landfill Facilities Directly Receiving District Solid Waste in 2009



The chart above shows that the District utilized Stony Hollow Landfill the most at 33,182 tons or 87% of the total tonnage followed by Cherokee Run Landfill at 4,801 tons or 13%, Pine Grove Landfill, Rumpke Landfill, and Suburban Landfill collectively managed less than 1% of the District's total waste disposed in landfills.

Landfill disposal was the District's primary method of waste disposal. The District's disposal distribution by sector, as indicated in the chart below, resulted in approximately 36,00 tons or 95% of solid waste being disposed by the residential/commercial sector, 1,900 tons or 5% by the industrial sector and the remaining 135 tons or 0.4% was classified as exempt waste.

2009 Waste Tonnage Landfilled by Sector



Finally, a regional capacity analysis will be performed to determine if adequate disposal capacity is available for the entire fifteen year planning period. The regional capacity analysis is presented in Section VI.

C. Existing Incinerators and Resource Recovery Facilities

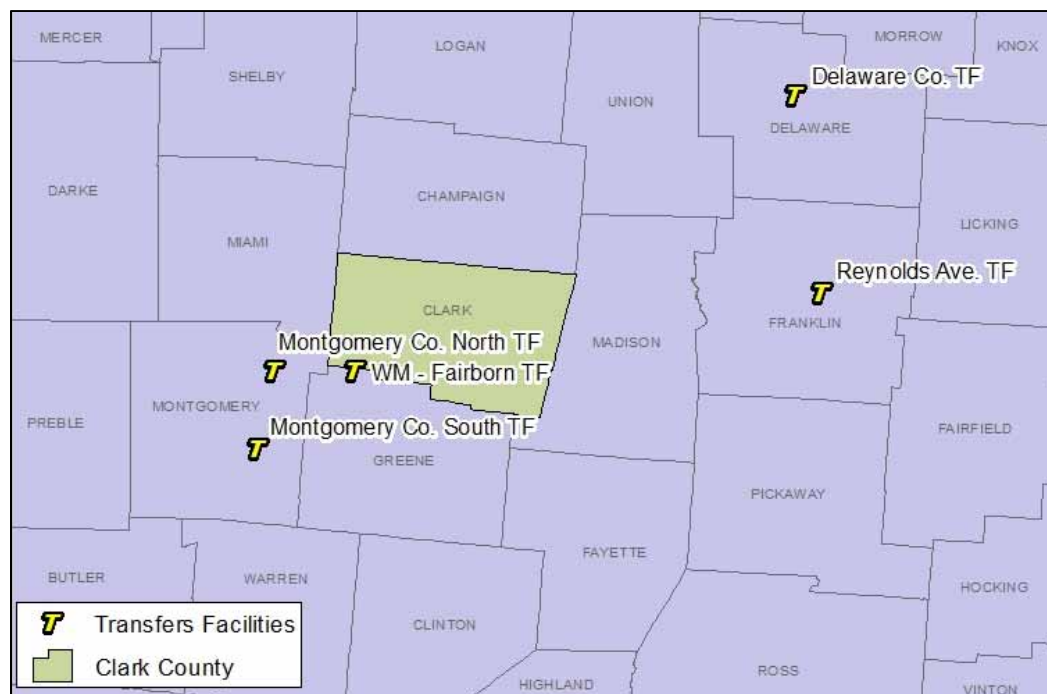
Table III-2, "Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District," presents a list of all publicly available and captive existing solid waste incinerators and waste-to-energy facilities used by the District. This listing includes all in-District, out-of-District, and out-of-state facilities. No publicly available incinerators or resource recovery facilities currently exist within the District in 2009. Information in this section has been obtained through results from surveys and direct inquiry.

D. Existing Transfer Facilities

Table III-3, “Solid Waste Transfer Facilities Used by the District”, presents a listing of all transfer facilities used by the District in 2009. The District does not use out-of-state transfer facilities. Information in this section has been obtained through the results of surveys, transfer station records and direct inquiry.

Total transferred solid waste from the District in 2009 was 60,786 tons. There were no in-district transfer stations. There were 5 out-of-district transfer facilities that processed nearly 61,000 tons of District solid waste in 2009.

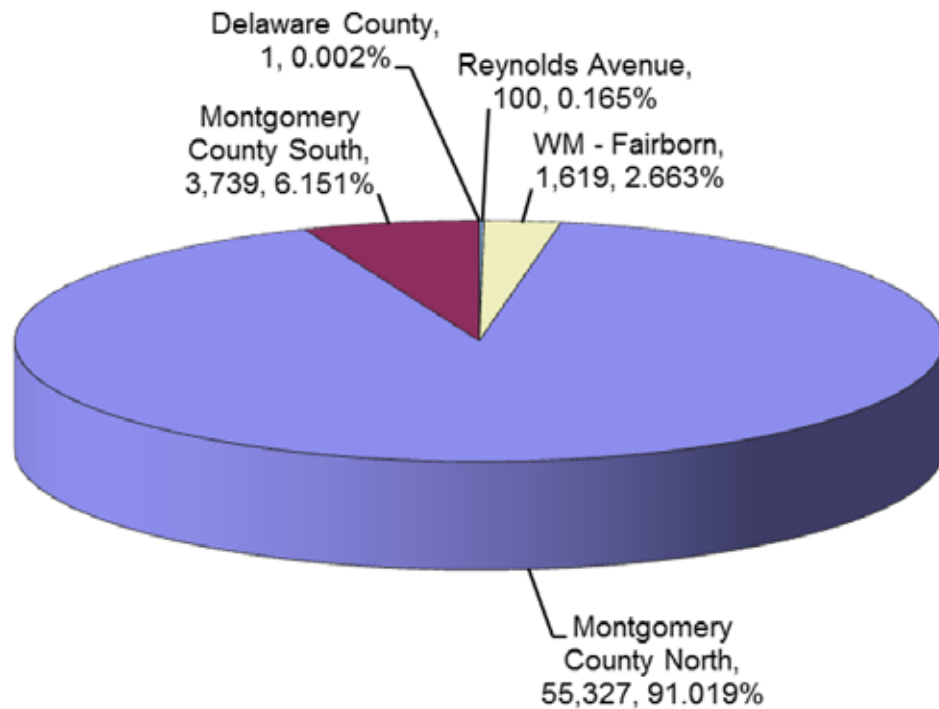
Transfer Facilities Used by the District in 2009



The Montgomery County North Transfer Station accepted more than 90% of the District’s transferred waste (55,300 tons), followed by the Montgomery County South Transfer Station, which managed approximately 6% (3,700 tons) and Waste Management-Fairborn, which managed less than 3% (1,619 tons). Two other transfer stations managed 101 tons in 2009.

The following graph depicts the transfer stations used by the District in 2009 and their respective market share.

Transfer Stations Used by the District in 2009



E. Existing Recycling and Household Hazardous Waste Collection Activities

Table III-4, "Residential Curbside Recycling Activities Used by the District", presents a listing of residential curbside recycling activities used by the District in 2009. Information in this table is based on results of surveys, facility records and direct inquiry.

There were 2 non-subscription curbside recycling programs and 17 subscription curbside recycling programs in 2009. The subscription programs were serviced by 4 waste haulers. Recyclables that were primarily, but not entirely, collected curbside included:

- Corrugated Cardboard
- Paperboard
- Newspapers
- Magazines
- Mixed Papers
- PET Bottles
- HDPE Bottles
- Glass
- Bi-Metal Cans
- Aluminum Cans
- Aseptic containers

In addition to waste haulers collecting recyclables, the District operated three Residential Recycling Stations and the Clark County Specialty Recycling Center. Additionally, many outlets existed for drop off by residents.

Table III-5, "Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District", contains a list of drop-off recycling facilities, buyback recycling facilities and household hazardous waste collection programs used by the District in 2009. Information in this table is based on results of surveys, facility records and direct inquiry.

The District had a total of 3 full time multi-material recycling drop-off facilities located throughout the District in 2009. The drop-off facilities collected aluminum cans, steel cans, glass and plastic. In addition, the facilities collected cardboard and magazines. Total recycling tonnage for these facilities in 2009 was 383.

The District had 25 Abitibi limited material collection containers that recycled 157 tons of materials in 2009. Abitibi collected office paper, mixed paper, newspaper and magazines. In addition, there were over 40 other limited material drop-off locations in the District in 2009. These facilities accepted a wide range of materials from aluminum cans, plastic glass, and cardboard to scrap tires, lead acid batteries, appliances and even eye glasses. The District was unable to collect meaningful data on the amounts of materials recycled in 2009 from most of these facilities, but residents and businesses had numerous opportunities and locations to recycle these materials. In 2009, a total of 2,779 tons was reported recycled by these facilities.

In addition to the drop-offs, there were several other material recovery facilities, scrap dealers and recyclers that accepted materials from the residential/commercial and industrial sectors within the District. These facilities accepted a wide range of materials including aluminum, steel, cardboard, mixed paper, office paper, white goods, other metals and other materials. The total recyclables processed from these facilities in 2009 was 16,159 tons.

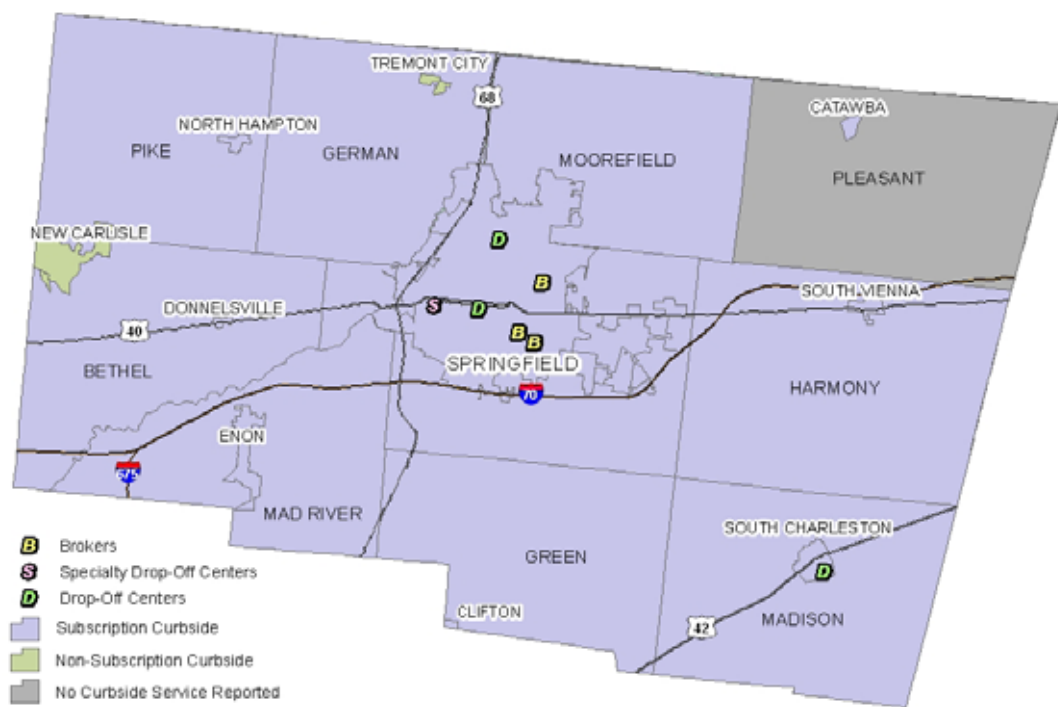
The District also conducted several special collection events in 2009 including HHW and electronics. These programs recycled 148 tons of materials in 2009.

Ohio EPA reported 2,819 tons of scrap tires recycled in the District during 2009.

Finally, unreported processors and brokers from the industrial survey yielded 56,076 tons of materials being recycled. Commercial recycling tonnage from generators that use unreported processors yielded 7,733 tons.

The total recycling tonnage in Table III-5 collected by all drop-off facilities, brokers, processors, haulers and District special collection programs in 2009 was approximately 84,000 tons. Provisions for double counting of material will be addressed in Section IV of this *Plan Update*. The following figure displays the District’s residential curbside recycling activities, drop-off centers, and brokers in the District.

Residential Curbside Activities, Drop-Offs, and Brokers in the District in 2009



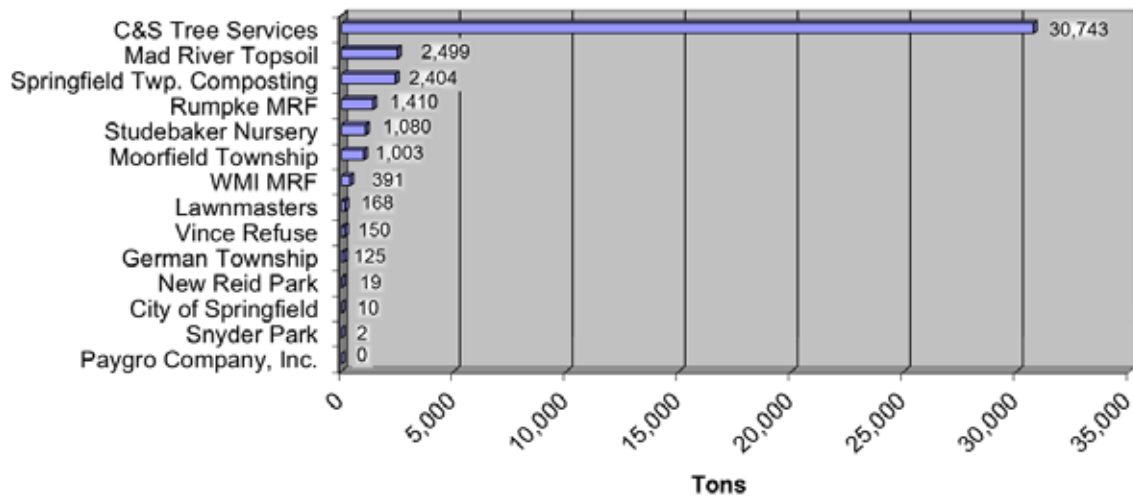
F. Existing Composting/Yard Waste Management Facilities

Composting facilities located within the District are identified in Table III-6, “Composting/Yard Waste Management Activities used by the District”. The District had 14 compost/yard waste management facilities/programs in 2009 of which 6 were registered or licensed compost facilities with Ohio EPA. Three of the 14 programs were solid waste haulers that collected yard waste from District residents and delivered to compost facilities outside of the District. The information presented in this section was obtained through surveys, direct inquiry and Ohio EPA compost facility annual report data.

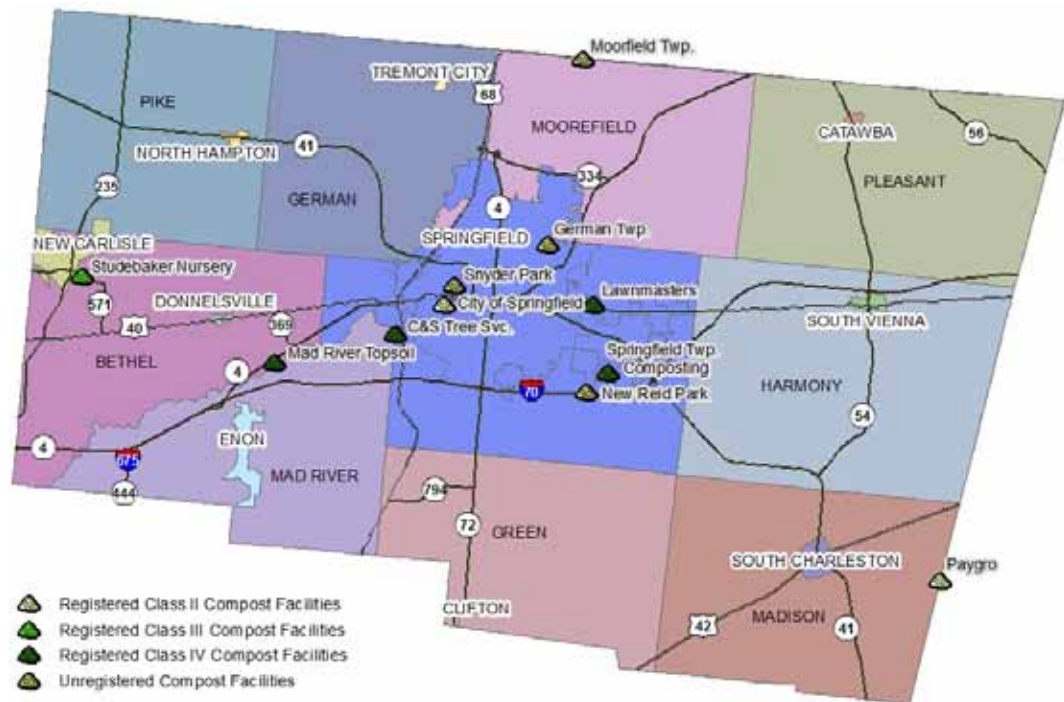
Of the facilities that reported, there was 40,004 tons of yard waste collected and recycled in 2009. The District had reported to Ohio EPA on the 2009 Annual District Report (ADR) that 36,031 tons were composted in 2009. This total has been increased to 40,004 based on additional information received by the District and the use of EPA facility data reports.

The following chart depicts the tonnage collected and recycled by facility.

Residential/Commercial District Yard Waste Recycle Tons by Facility/Program in 2009



Compost Facilities Used by the District in 2009



G. Existing Open Dumps and Waste Tire Dumps

There were no open dumps or waste tire dumps in the District during 2009. This is a result of Clark County’s very strong support of the Health District and Environmental Enforcement Program.

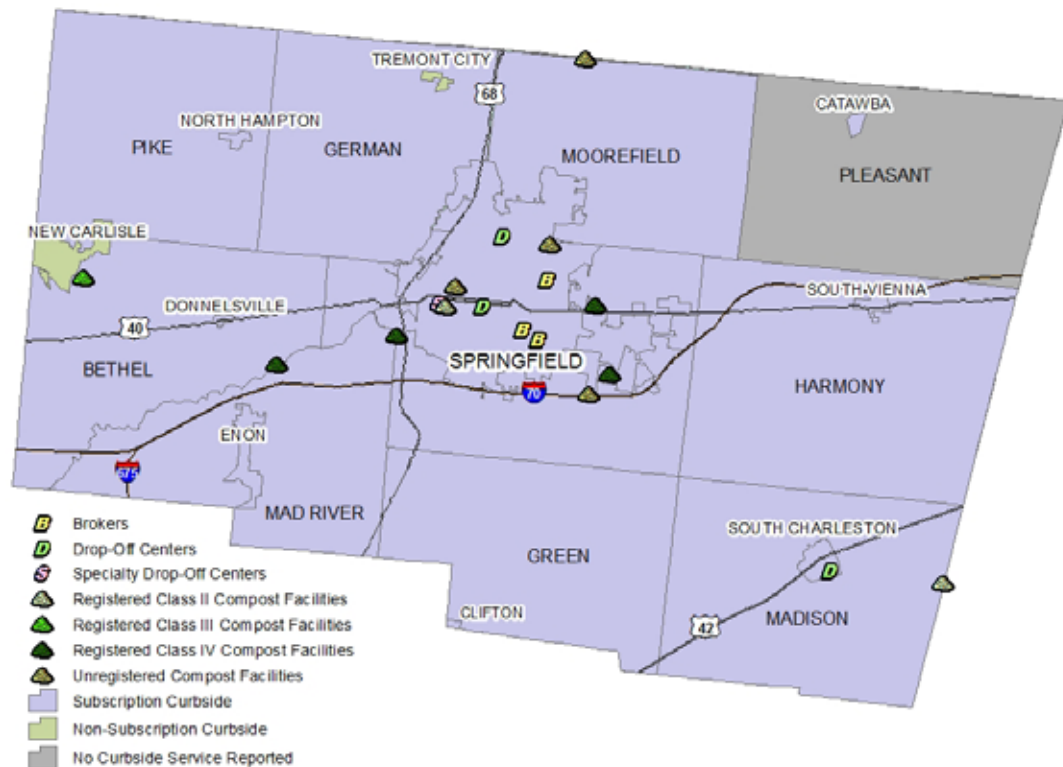
H. Ash, Foundry Sand, and Slag Disposal Sites

Table III-9, “Ash, Foundry Sand, and Slag Disposal Sites Used by the District”, summarizes the ash and slag sites that were located in the District in 2009. There were no foundry sand/slag disposal sites in the District in 2009.

I. Map of Facilities and Sites

A full size map of the District’s facilities is included in Appendix E. A smaller version of this map is included below.

District Facilities in 2009

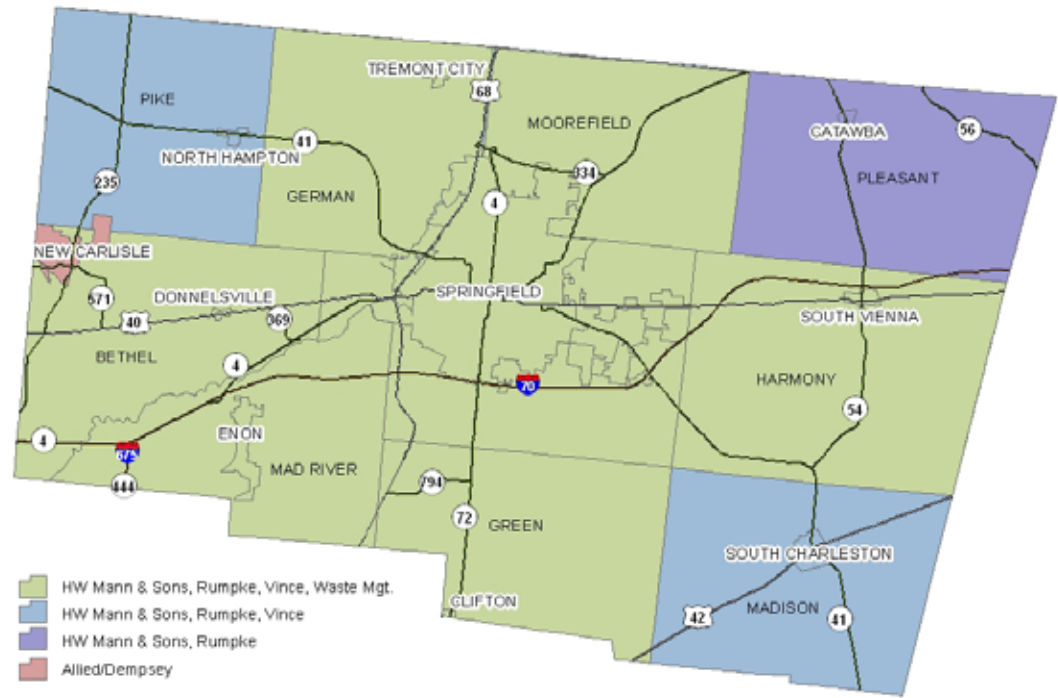


J. Existing Collection Systems – Haulers

All haulers identified during this inventory were found to use trucking/motor freight. No haulers were identified as using rail, river barge, or any other method of transport.

There are 6 private sector haulers listed in Table III-10 that provide a majority of the service to the District. In 2009, the haulers reported 7,844 tons of solid waste collected. The following map presents each private sector hauler’s current service area within the District:

Haulers Servicing Clark County in 2009



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

Facility Name	Type of Landfill	Location		Waste Received from the SWMD (TPY)			Total
		County	State	Residential/Commercial	Industrial	Exempt/Other	
In-District Facilities							
None	N/A	N/A	N/A	0	0	0	0
Out-of-District Facilities							
Cherokee Run	PA	Logan	Ohio	3,567	1,222	12	4,801
Stony Hollow	PA	Montgomery	Ohio	32,405	654	123	33,182
Rumpke - Hughes Road	PA	Hamilton	Ohio	2	23	0	25
Suburban	PA	Perry	Ohio	0	1	0	1
Pine Grove	PA	Fairfield	Ohio	29	0	0	29
Out-of-State Facilities							
None	N/A	N/A	N/A	0	0	0	0
Totals				36,003	1,900	135	38,038

PA = publicly available, PO = privately operated, GO = government operated, C=Captive, N/A=Not Applicable

Source(s) of information: 2009 Facility Annual Operational Reports for Landfills from Ohio EPA and Kentucky

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

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

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

Facility Name	Type of Facility	Location		Waste Received from the SWMD (TPY)				Recyclables Recovered from Waste	Total
		County	State	Waste Received from the SWMD (TPY)		Total			
				Residential/Commercial	Industrial		Exempt		
In-District Facilities									
None	N/A	N/A	N/A	0	0	0	0	0	0
Out-of-District Facilities									
Reynolds Avenue	PA	Franklin	Ohio	100	0	0	100	0	0
WM - Fairborn	PA	Greene	Ohio	1,481	138	0	1,619	0	0
Montgomery County North	PA	Montgomery	Ohio	55,327	0	0	55,327	0	0
Montgomery County South	PA	Montgomery	Ohio	3,739	0	0	3,739	0	0
Delaware County	PA	Delaware	Ohio	1	0	0	1	0	0
Out-of-State Facilities									
None	N/A	N/A	N/A	0	0	0	0	0	0
Totals				60,648	138	0	60,786	0	0

PA = publicly available, PO=Privately Operated, C=Captive

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

Community Name, Address, Phone	Type of Curbside	Population Served in 2009	Frequency of Collection	Average # of Households Participating	Service Area		Types of Materials Accepted												Recyclables Processed from the SWMD (TPY)
					County	Township/City	AC	GL	PL	ONP	OCC	SC	LAB	Mag	OffP	MxP	ST	App	
Non-Subscription Curbside Recycling																			
New Carlisle (Allied Waste)	NS	5,617	Weekly	2,200	Clark	New Carlisle	X	X	X	X	X	X	X	X	X	X	X	344	
Tremont City	NS	341	Weekly	DNR	Clark	Tremont City	X	X	X	X	X	X	X	X	X	X	X	21	
Subscription Curbside Recycling																			
Catawba Village	S	313	Weekly	DNR	Clark	Catawba Village	X	X	X	X	X	X	X	X	X	X	X	436	
Clifton Village	S	48	Weekly		Clark	Clifton Village	X	X	X	X	X	X	X	X	X	X	X		X
Donnelsville Village	S	282	Weekly		Clark	Donnelsville Village	X	X	X	X	X	X	X	X	X	X	X		X
Enon Village	S	2,534	Weekly		Clark	Enon Village	X	X	X	X	X	X	X	X	X	X	X		X
North Hampton Village	S	352	Weekly		Clark	North Hampton Village	X	X	X	X	X	X	X	X	X	X	X		X
South Charleston Village	S	1,773	Weekly		Clark	South Charleston Village	X	X	X	X	X	X	X	X	X	X	X		X
South Vienna Village	S	449	Weekly		Clark	South Vienna Village	X	X	X	X	X	X	X	X	X	X	X		X
Springfield City	S	62,060	Weekly		Clark	Springfield City	X	X	X	X	X	X	X	X	X	X	X		X
Bethel Township	S	12,488	Weekly		Clark	Bethel Township	X	X	X	X	X	X	X	X	X	X	X		X
German Township	S	7,234	Weekly		Clark	German Township	X	X	X	X	X	X	X	X	X	X	X		X
Green Township	S	2,764	Weekly		Clark	Green Township	X	X	X	X	X	X	X	X	X	X	X		X
Harmony Township	S	3,254	Weekly		Clark	Harmony Township	X	X	X	X	X	X	X	X	X	X	X		X
Madison Township	S	1,143	Weekly		Clark	Madison Township	X	X	X	X	X	X	X	X	X	X	X		X
Mad River Township	S	9,023	Weekly		Clark	Mad River Township	X	X	X	X	X	X	X	X	X	X	X		X
Moorefield Township	S	11,104	Weekly		Clark	Moorefield Township	X	X	X	X	X	X	X	X	X	X	X		X
Pike Township	S	3,596	Weekly		Clark	Pike Township	X	X	X	X	X	X	X	X	X	X	X		X
Springfield Township	S	12,324	Weekly		Clark	Springfield Township	X	X	X	X	X	X	X	X	X	X	X		X
															Total Recycled in 2009	800			

NS=Non-Subscription Curbside Recycling; S=Subscription Curbside Recycling
 AC=Aluminum Containers; GL=Glass containers; PL=Plastic containers; ONP=newspaper; OCC=Cardboard; SC= Steel Containers; LAB=Lead Acid Batteries; Mag=Magazines;
 OffP=Office Paper; MxP=Mixed Paper; ST=Scrap Tires; App=Appliances; OM=Other Metal Oth=Other

Source(s) of information: 2009 Annual Report; District Information
 Ohio Department of Development Office of Strategic Research, 2009 Population Estimates by County, City, Village and Township, July 2009

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

Facility/Activity Name, Address, Phone	Type of Facility or Activity	Types of Materials Accepted												Service Area			Hours Available to Public	Recyclables Processed from the SWMD (TPY)	Processing Capacity (tons)						
		AC	GL	PL	ONP	OCC	SC	LAB	Meg	ORIP	MkP	ST	App	OM	Oth	County			Townships/Cities	Population Served	% of Material from Sector	Daily (TPD)	Annual (TPY)		
Drop-Off Recycling Centers																									
Clark County Solid Waste Management District West Recycling Station 1602 W. Main St. Springfield, Ohio 45504 937 521-2020	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Clark	District	139,623	Government business days and hours	100% R and C	DNR	DNR	
Clark County Solid Waste Management District North Recycling Station 525 E. Home Rd. Springfield, Ohio 45502 937 521-2020	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Clark	District	139,623	24 hours/day 7 days/week	100% R and C	DNR	DNR	
Clark County Solid Waste Management District Rural Recycling Station 149 Chillicothe St. South Charleston, Ohio 937 521-2020	PA, DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Clark	District	139,623	24 hours/day 7 days/week	100% R and C	DNR	DNR	
Limited Material Drop-Off Recycling Centers																									
ABITIBI Paper Retrievers 25 Various Locations 995 Marion Road Columbus, Ohio 43207 614.443.6300	PA, DO																	Clark	Springfield	139,623	24 hours/day 7 days/week	100% R and C	DNR	DNR	
Animal Welfare League 3 W Pleasant St. 937.323.9223	PA, DO																	X	Clark	District	139,623	Call for hours	100% R	DNR	DNR
Auto Zone 111 N Isabella St 937.324.9888	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Auto Zone S. Burnett Road 937.324.2112	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Best Buy 1709 N Beechle Ave 937.324.8377	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Box King 1037 N. Beechle 937.322.8117	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Buckeye Diamond Logistic 15 Sprague Rd., P.O. Box E South Charleston, OH 45368	PA, DO																	X	Clark and others	District	139,623	Business hours	100% C and I	DNR	DNR
Capital Cleaners 1370 W. First Street 937.325.4694 1643 South Limestone Street 937.323.7411	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Carmichael Appliances 1050 N. Belmont 937.327.9200	PA, DO																	X	Clark	District	139,623	Business hours	100% R	DNR	DNR
Catholic Central "Klutter Kisset" 1200 E. High Street 937.325.9204	PA																	X	Clark	District	139,623	Call to schedule	100% R	DNR	DNR
CCWMD Recycling Center/Specialty Recycling 1602 W Main St. Springfield, OH 937.521.2020	PA, DO (for a fee)																	X	Clark	District	139,623	Thursdays 9am-12pm and 4pm-6pm 1st Sat each month, 9am-12pm	100% R and C	DNR	DNR

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

Facility/Activity Name, Address, Phone	Type of Facility or Activity	Types of Materials Accepted												Service Area			Hours Available to Public	Recyclables Processed from the SW MD (TPY)	% of Material from Sector:	Processing Capacity (tons)					
		AC	GL	PL	ONP	OCC	SC	LAB	Mkg	ChfP	MkP	ST	App	OM	Oth	County				Townships/Cities	Population Served	Daily (TFD)	Annual (TPY)		
City of Springfield Fire Stations	PA, DO	X																Clark	District	139,623	247	DNR	100% R	DNR	DNR
Clark County Habitat for Humanity ReStore 14 E North St 937.325.9710	PA, DO											X						Clark	District	139,623	Tues-Sat 9 am-4 pm	DNR	100% R and C	DNR	DNR
Clark County Recycling Center, LLC 820 Sherman Ave. Springfield, OH 45503 937.323.8850	PA, DO	X				X												Clark	District	139,623	Business hours	DNR	DNR	DNR	DNR
Compton Power Equipment 5375 Urbana Rd 937.390.3998	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Dobber's Cleaners 448 N. Limestone Street 937.390.0123	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Dr. Roark 1674 N. Limestone Street 937.399.4101	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Freestone Tire and Service Center 1475 Upper Valley Pike 937.325.4638	PA, DO (limit 2)										X							Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Grand Vista Oil LLC 5550 Lower Valley Pike 937.882.1367	PA, DO for a fee															X		Clark and others	District	139,623	Business hours	DNR	DNR	DNR	DNR
Goodwill Industries 1961 N. Bechtle Ave 937.399.9014	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Goodwill Industries 291 E. Lefel Lane 937.324.8638	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Grismer Tire 721 W. Columbia 937.322.1074	PA, DO															X		Clark	District	139,623	Business hours	23	100% R	DNR	DNR
Home Again General Store 1115 N. Bechtle Ave. 937.325.4663	PA, DO															X		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Home Depot 1880 N Bechtle Ave 937.342.1051	PA, DO															X		Clark	District	139,623	Business hours	DNR	DNR	DNR	DNR
JT Enviro / Filafry 3197 Plainfield Rd Dayton, OH 45432 937.253.9710	PA, DO for a fee																X	Clark and others	District	139,623	Business hours	DNR	100% C	DNR	DNR
Koi Auto Parts 2432 S Dayton Lakeshew Rd New Carlisle 937.849.1578	PA, DO																X	Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Kroger Multiple locations 937.323.0340	PA, DO																X	Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
L & J Salvage 715 Dayton Rd 937.324.0122	PA, DO																X	Clark	District	139,623	Business hours	DNR	100% R and C	DNR	DNR
Lenscrafters Upper Valley Mall Springfield 937.525.9244	PA, DO																X	Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR

Table III-5 (continued)
Drop-offs, Buybacks, Hauler Collection, and HHW Collection Used by the District

Facility/Activity Name, Address, Phone	Type of Facility or Activity	Types of Materials Accepted												Service Area			Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Sector	Processing Capacity (tons)						
		AC	GL	PL	ONP	OCC	SC	LAB	Mag	ClFP	IM	P	ST	App	OM	OTH				County	Townships/Cities	Population Served	Daily (TPD)	Annual (TPY)		
Liberty Title 3041 Jackson Pike Covington, OH 644.871.9107	PA, DO																		Clark	District	139,623	Business hours	419	100% C	DNR	DNR
Urbard & Williams Funeral Home 2425 N. Limestone Street Springfield, OH 937.359.2811	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Wright's 1500 Harvest Ave Springfield, OH 45504 937.323.0766	PA, DO																		Clark	Mainly Springfield	139,624	Business hours	DNR	100% R	DNR	DNR
Wright's and Brake 10 W. North Street Springfield, OH 937.323.4747	PA, DO																		Clark	District	139,623	Business hours	20	100% R	DNR	DNR
Wright's and Brake 1100 Upper Valley Pike Springfield, OH 937.324.0516	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Wright's Transmissions 2416 E. Main St. Springfield, OH 937.352.4222	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Wright's 21 Locations in Clark County 4720 Glover Rd Columbus, OH 43232 614.626.4988	PA, DO																		Clark	District	139,632+	Business hours	28	100% R	DNR	DNR
Quest Adult Services 110 West Leifeld Lane Springfield, OH 45506 937.326.5200	PA, DO for a fee																		Clark	District	139,623	Business hours	DNR	100% C	DNR	DNR
Seas Auto Center 875 Upper Valley Pike Springfield, OH 937.327.4628	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Shawnee Optical 1204 N. Bechtel Avenue Springfield, OH 937.323.1233	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Shred-It 1370 Research Dr. Grafton, OH 43230 614.828.1307	PA, DO for a fee																		Clark and others	District	139,623 +	Business hours	DNR	100% C	DNR	DNR
Smith's Roll Off Services 2835 Orlan Avenue Springfield, OH 937.323.4746	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Springfield News - Sun 282 N. Limestone Springfield, OH 937.326.0300	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R and C	DNR	DNR
St. Vincent De Paul 2425 E. High Street Springfield, OH 937.325.9111	PA, DO																		Clark	District	139,623	Call to schedule pick-up	DNR	100% R	DNR	DNR
Suburban Propane 2323 Eron Rd, Eron Springfield, OH 937.894.7327	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Target 1665 W. First St Springfield, Ohio 45504 937.324.2394	PA, DO																		Clark	District	139,623	M-Sat: 9am-10pm Sun: 9am-5pm	DNR	100% R	DNR	DNR
Tire City 232 Selma Road Springfield, OH 937.326.4916	PA, DO for \$3.00/tire																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
Tire Plus and Auto 1441 W. Main Road Springfield, OH 937.389.8694	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR
State Patrol, Inc. 854 State Patrol Ave Springfield, OH 45503 937.323.5210	PA, DO																		Clark	District	139,623	Business hours	DNR	100% C and I	DNR	DNR
United Senior Services 80 W. High Street Springfield, OH 937.323.4946	PA, DO																		Clark	District	139,623	Business hours	DNR	100% R	DNR	DNR

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

Facility Name or Activity	Facility Type	County	Waste Received from the SWMD		Processing Capacity		Non-Compostables Landfilled (TPY)	Compost Produced (TPY)
			Address/Phone	Type	Amount (T)	Daily (TPD)		
Clark County Registered Compost Facilities								
C&S Tree Services	Class IV	Clark	2551 Dayton Road Springfield, OH 937.323.4723	Leaves, grass, and brush	30,743	N/A	N/A	N/A
City of Springfield	Class II	Clark	956 Dayton Avenue Springfield, OH 45506	Leaves, grass, and brush	10	N/A	N/A	N/A
Lawmasters	Class IV	Clark	331 Old Columbus Road Springfield, OH 937.323.5625	Leaves, grass, and brush	168	N/A	N/A	N/A
Mad River Topsoil	Class IV	Clark	5625 Old Lower Valley Springfield, OH 937.882.6115	Brush and wood wastes	2,499	N/A	N/A	N/A
Paygro Company, Inc.	Class II	Clark	1160 Huntington Rd. South Charleston, OH 45368 937.462.8358	Food wastes	n/a	N/A	N/A	N/A
Stuebaker Nursery	Class III	Clark	11140 Milton-Carlisle PK New Carlisle, 45344 937-845-3816	Leaves, grass, and brush	1,080	N/A	N/A	N/A
Springfield Township Composting Facility	Class IV	Clark	1516 S. Bird Rd. Springfield, OH 937.322.3459	Leaves and brush	2,404	N/A	N/A	N/A
Registered Facility Total					36,904			
Clark County Non-Registered Compost Facilities/Activities								
German Township	N/A	Clark	6695 Zerke Road Springfield, OH 45503	Leaves, grass, and brush	125	N/A	N/A	N/A
Moorfield Township	N/A	Clark	1749 E. County Line Road Springfield, OH 45005	Leaves, grass, and brush	1,003	N/A	N/A	N/A
New Reid Park	N/A	Clark	3140 E. Lefel Ln. Springfield, OH 45505 937-324-7395	Leaves, grass, and brush	19	N/A	N/A	N/A
Snyder Park	N/A	Clark	Snyder Park Rd. Springfield, OH 45504 937-324-7647	Leaves, grass, and brush	2	N/A	N/A	N/A
Non-Registered Facility Total					1,149			
Clark County Hauler Yard Waste Programs								
Rumpke MRF	N/A	Clark	Rumpke MRF reported YW from City Leaf Collection going to Montgomery Co TF then back to Paygro for composting. This is not otherwise reported by Paygro.	Leaves, grass and Brush	1,410	N/A	N/A	N/A
Vince Refuse	N/A	Clark	Hauler delivered separated yard waste to the Montgomery County Transfer Station.	Leaves, grass, and brush	150	N/A	N/A	N/A
WMI MRF	N/A	Greene	WMI MRF reported YW from District going to Biosource in Greene Co. who does not otherwise report to us.	Leaves, grass and Brush	391	N/A	N/A	N/A
Hauler Yard Waste Total					1,951			
Grand Total					40,004			

DNR=Did Not Report

Source(s) of information: Ohio EPA Facility List and 2009 ADR

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

Facility Name, Type	Facility Mailing Address, Phone	Facility Owner, Address, Phone	Facility Operator, Address, Phone	Daily Waste Receipt Limit, (TPD)	Number of Days Facility Open/Year
None	N/A	N/A	N/A	N/A	N/A

N/A = Not applicable

Source(s) of information: Clark County Waste Management District

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

Site Location (describe briefly)	Latitude (degrees, minutes, seconds)	Longitude (degrees, minutes, seconds)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (in acres)	Time Period Site has Existed
Open Dump Sites						
None	N/A	N/A	N/A	N/A	N/A	N/A
Waste Tire Dump Sites						
None	N/A	N/A	N/A	N/A	N/A	N/A

DNR=Did Not Report, NA=Not Available

Source(s) of information: Clark County Health Department

**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
N/A	N/A	N/A	N/A	N/A

Source(s) of information: Ohio EPA - Southwest Ohio District Office

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

Facility/Activity Name Contact Person	Mailing Address City, State, Zip, Phone	City/Twp./Village	Materials Collected	Tons Collected from the District	Name of Facility Used by Hauler
Allied Waste	2946 U.S. Rt. 68 N Bellefontaine, Ohio 43311	New Carlisle residential contract and commercial elsewhere	Industrial, commercial and residential waste, and recyclables	419	DNR
Dempsey Waste Systems	1577 West River Road Dayton, OH 45418 937-267-5007	New Carlisle	Commercial and residential waste, yard waste and recyclables.	DNR	DNR
HW Mann and Sons	2614 Rocket Ave. Springfield, OH 937.324. 1324	The entire County except New Carlisle.	Commercial and residential waste, yard waste and recyclables.	DNR	DNR
Rumpke Transportation	1932 E. Monument Dayton, OH 937.461.0004	The entire County except New Carlisle	Commercial and residential waste, yard waste and recyclables.	1,728	DNR
Vince Refuse	301 Neosha Ave. Springfield, OH 937.323. 3640	The entire County, except New Carlisle and Pleasant Twp.	Commercial and residential waste, yard waste and recyclables.	DNR	DNR
Waste Management	1700 N. Broad St. Fairborn, Ohio 45324 937.878.6699	The entire County except New Carlisle and Pike, Pleasant and Madison Twp.	Commercial and residential waste, yard waste and recyclables.	5,697	DNR
Total				7,844	

DNR= Did Not Report

Source(s) of information: 2009 Hauler Survey and phone calls

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

The District recognizes there are several instances where there are differences between the Annual District Report and information presented in this *Plan Update*. This Plan has been updated to reflect the most current data for community participation and recycling programs 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 2009. The population estimate of 139,671 for the District is a projection using the 2000 *Census* and population projections from the Ohio Department of Development Office of Strategic Research, 2009 Population for Counties, Cities, Villages and Townships.

Population Adjustments

The following adjustments were made for political subdivisions that shared borders with surrounding solid waste districts and the District.

- The Village of Clifton had less than 50% of the population living inside Clark County and more than 50% living inside Greene County. The population of this community in Clark County (48) was subtracted from the District population total.

The total adjusted population for the District in 2009 was 139,623.

The District projected residential/commercial waste using Ohio EPA's September 4, 2002, recommendations for estimating per capita waste generation. For 2009, the per capita residential/commercial waste generation estimate was 4.84 pounds per person per day. The formula for projecting the residential/commercial waste generation using the "national projections" that were adjusted by Ohio EPA is presented in Table IV-1. This methodology estimated the District's residential/commercial waste generation was 123,329 tons in 2009. This estimate is 33,680 tons less than the residential/commercial waste generation of 157,009 tons recorded by landfills and transfer stations for 2009 (96,651 tons) plus reported recycling and source reduction activities for 2009 (60,358 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 an Industrial Survey in 2009 to collect recycling and solid waste data to support this *Plan Update*. Copies of the residential/commercial and industrial survey forms are included in Appendix G, and a summary of industrial survey results are included in Appendix F. Table IV-2, "Industrial Waste Generation Survey Respondents vs. Unreported", presents the results of the District's 2009 Industrial Survey. The District used information from industries responding to the survey as well as Appendix JJ of the Ohio EPA Plan format to estimate Total Industrial Waste Generated.

The District had 143 industries in SIC codes 20 and 22 through 39. Approximately 59% of the industries (84) responded to the survey. Approximately 5,637 (69%) of the employees were represented by the survey results.

The District calculated the generation rate and tons of waste generated per employee for each SIC code from the survey respondents. For those SIC codes where no industries responded, the District used the generation rate from Appendix JJ of the Ohio EPA Plan format to estimate waste generated. A total of 93,152 tons of industrial waste was generated by the District. Approximately 69% (64,644 tons) was reported in the surveys.

C. Exempt Waste

Table IV-3, "Exempt Waste Generated in the District and Disposed in Publicly Available Landfills", shows the District's estimate of exempt waste generated in 2009. Exempt waste is material such as construction and demolition debris which is not defined as a solid waste. Exempt wastes may be managed in landfills that have different and often less stringent environmental control requirements. Table IV-3 shows the total exempt waste generated by the District was 135 tons. This includes the exempt waste reported by the landfills and transfer stations receiving the District's waste in Tables III-1 and III-3.

D. Total Waste Generation (based on national statistics and projections)

Table IV-4, "Reference Year Total Waste Generation for the District," presents the total waste generated using national and industrial projections. Using the national averages adjusted by Ohio EPA, the District projected 216,616 tons of waste was generated in 2009 from all sectors. The generation rate in pounds per person per day is estimated at 8.50. This included residential/commercial waste generation of 123,329 tons (Table IV-1), 93,152 tons (Table IV-2) of projected industrial waste and 135 tons of exempt waste (Table IV-3). The total waste generation listed in Table IV-4 was 1,358 tons more than the total in Table IV-8 as calculated using landfill data and reported recycling and waste reduction,

including exempt waste. For further discussion on reconciling the waste generation values see Section IV.H.

E. Reference Year Waste Reduction

The District surveyed recycling facilities and brokers, large retail stores, composting facilities, communities and haulers to obtain recycling and composting data in 2009. The residential/commercial waste reduction reported on Table IV-5, "Reference Year Residential/Commercial Waste Reduction in the District", and industrial waste reduction reported on Table IV-6, "Reference Year Industrial Waste Reduction in the District", was obtained from these surveys as reported in the 2009 Annual District Report. The District was careful to eliminate double counting by employing the following methodology:

Residential/Commercial Waste Reduction Analysis

The District collects residential/commercial recycling data from processors/brokers and select commercial businesses that either do not use the processors/brokers surveyed or their recycling data is easily removed to eliminate double counting. The following section summarizes the waste reduction analysis conducted to demonstrate the tonnages being credited to the residential/commercial sector for 2009.

Processor/Broker Recycling

This first section represents the recycling data from processors and brokers that managed residential and commercial materials in 2009. The following table summarizes the broker recycling totals by commodity:

Commodity	2009 Tons
Appliances	227
Batteries	1
Glass	330
Ferrous Metals	2,130
Non-Ferrous Metals	651
Plastic	707
Cardboard	2,052
Other Paper	2,267
Commingled Recyclables	344
Electronics	113
HHW	8
Used Oil	2
Scrap Tires	2,819
Wood	930
Other	39
Total	12,620

Compost Facility Recycling

A yard waste survey of commercial and residential compost facilities was completed by the District in 2009. The results of the surveys were used to compile data for compost facilities, and yard waste management activities undertaken by political subdivisions. In addition, data collected from the surveys were reconciled with data obtained from Ohio EPA. Yard waste data from two haulers was included only after determining that they were delivering it to facilities outside of the county that were not included in the reference year waste reduction totals. The following table summarizes the yard waste survey results by commodity for respondents and compost facilities as reported to Ohio EPA:

Commodity	2009 Tons
Yard Waste from Registered Facilities	35,824
Yard Waste from Non-Registered Facilities/Programs	2,229
Yard Waste from Haulers	1,951
Total	40,004

Commercial Business Recycling

A survey of commercial businesses was completed by the District in 2009. This is referred to as the Commercial Nodes Survey and is intended to capture tonnages recycled by the largest commercial generators that are not reflected in data collected from the local processors because they ship material out of our region.

The results of the surveys were used to compile recycling for the county's largest commercial generators. None of the material reported below was included in the processor/broker survey data which ensures that no double counting occurred. The following table summarizes the commercial survey results by commodity for the 26 respondents:

Commodity	2009 Tons
Cardboard	7,612.3
Electronics	27.0
Plastic	76.3
Mixed Paper	8.0
Non-Ferrous Metals	0.4
Wood	9.4
Total	7,733

A copy of the Processors/Brokers and Commercial Nodes Surveys are included in Appendix G.

Residential/Commercial Waste Reduction Summary

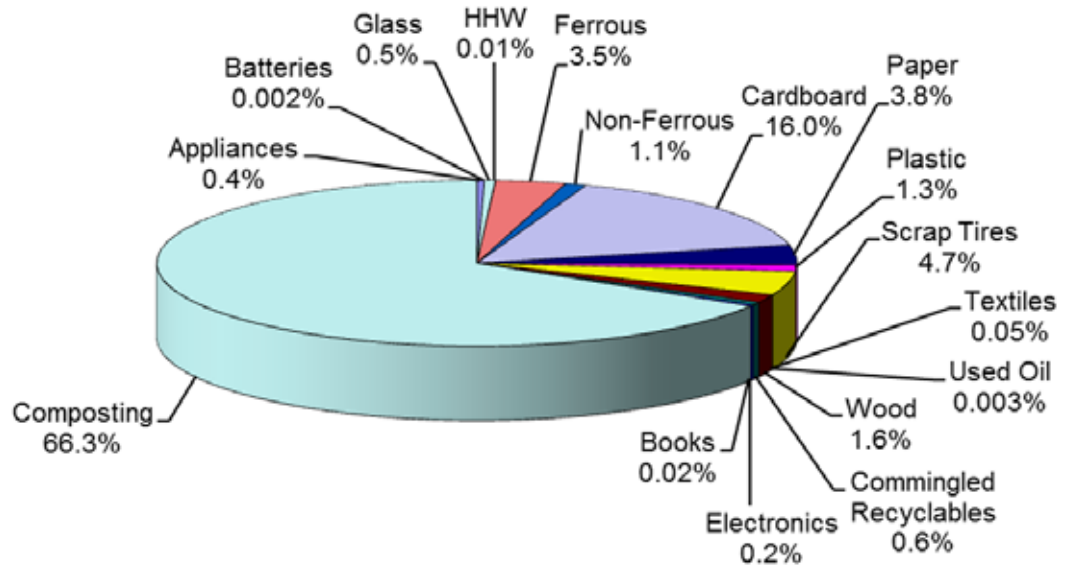
The following table summarizes the total residential/commercial waste reduction totals for 2009:

Commodity	2009 Tons
Appliances	227
Batteries	1
Books	11
Cardboard	9,664
Commingled Recyclables	344
Electronics	140
Ferrous	2,130
Glass	331
HHW	8
Non-Ferrous	652
Paper	2,275
Plastic	783
Scrap Tires	2,819
Textiles	28
Used Oil	2
Wood	939
Yard Waste	40,004
Total	60,358

Yard waste was the largest component recycled in the residential/commercial sector followed by cardboard, scrap tires, paper, and ferrous metals. Commingled recyclables are plastic, aluminum cans, glass and, in some cases, paper that are combined and reported as one commodity by haulers and communities.

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

2009 Residential/Commercial Waste Reduction



Based on this data, the District's programs have resulted in the following environmental benefits (using EPA's WARM Model):

EPA Material	Tons	Energy Saved (Million BTUs)
Appliances	227	558,569
Batteries	1	
Books	11	
Corrugated Cardboard	9,664	
Electronics	140	
Ferrous Metals	2,130	
Glass	331	
HHW	8	
Mixed Paper, Office	2,275	
Mixed Plastics	783	
Mixed Recyclables	344	
Non-Ferrous Metals	652	
Scrap Tires	2,819	
Textiles	28	
Used Oil	2	
Wood	939	
Yard Trimmings	40,004	
Total	60,358	

Industrial Waste Reduction Analysis

The District collects industrial recycling data from industrial generators directly. The following section summarizes the waste reduction analysis conducted to demonstrate the tonnages being credited to the industrial sector for 2009.

The District surveyed all industries in SIC Codes 20, 22 – 39 in 2009. The results of those surveys were used to compile recycling by industrial facilities. The District did not use broker, processor and hauler recycling data. The District verified the data for ferrous metals to ensure the materials were only sourced from within the District. The following table summarizes the industrial survey results by commodity for the 84 respondents:

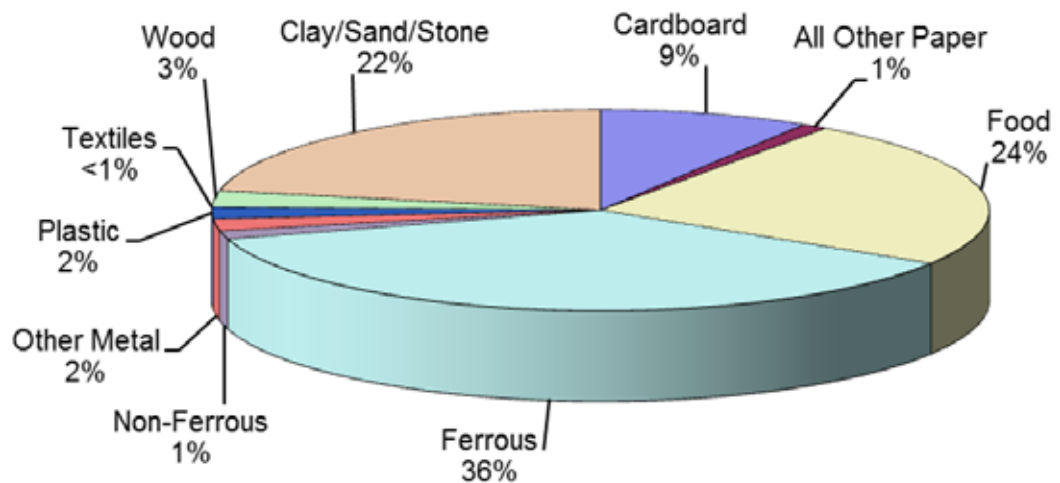
Commodity	2009 Tons
Cardboard	4,925
Other Paper	594
Plastic	1,045
Ferrous Metals	20,457
Non-Ferrous Metals	738
Other Metal	1,093
Food	13,476
Wood	1,462
Clay/Sand/Stone	12,284
Textiles	2
Total	56,076

Industrial Recycling Summary

The District counted 56,076 tons of industrial recycled waste out of the reported 56,502 tons from industrial surveys. Approximately 425 tons reported as recycled on surveys came from non-credible materials and was not included in Table IV-6. A copy of the Industrial Survey is included in Appendix G.

Ferrous metals, food, clay/sand/stone and cardboard were the primary components recycled by the industrial sector in 2009 followed by wood, plastic, non-ferrous metals, and paper. The following figure depicts the waste reduction percentages for the industrial sector.

2009 Industrial Waste Reduction



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

The following section summarizes the reference year residential/commercial programs and initiatives for the District. This section is quite extensive and reflects the District's commitment to reducing solid waste from being disposed at landfills.

The District evaluated each of the programs in this section by using a Strength and Challenges process. The results of this process will guide the District in the new planning period for the programs listed below as well as any new programs.

RESIDENTIAL/COMMERCIAL RECYCLING PROGRAMS

1. Clark County Specialty Recycling Center

In 2007, the District opened a specialty drive-thru recycling center where residents could recycle difficult to recycle items on a weekly basis. The facility also serves as administrative offices and a home base for all programs. The Center was open Thursdays: 9 am – 12 pm and 4 pm – 6 pm and the first Saturday of every month from 9 am – 12 pm in 2009.



The District utilized jail inmates that provided labor to operate the Center which defrayed costs. Some materials generate revenue such as metal, paper and some electronics (\$10,400 earned in 2009). Also, small user

fees set to cover most of the cost to recycle each material amounted to \$16,400 in 2009.

The District paid approximately \$1 Million for the property and all of the facility upgrades in 2006 which will be paid off by 2016.

In 2009, 2,400 residents delivered items for recycling through the Center. The following materials were accepted in 2009:

Description	Price	2009 Volumes Collected
Latex Paint	\$0.25/Pound	6 Tons
Used Tires	\$0.10/Pound	34 Tons
Fluorescent Bulbs	\$0.50 Each	872 Total
HID Bulbs	\$1.00 Each	43 Total
UV Lamps	\$2.00 Each	80 Total
NICAD Batteries	Free of Charge	400 Pounds
Cell Phones	Free of Charge	Unknown
TVs and Monitors	\$0.10/Pound	81 Tons
All other Electronics	Free of Charge	81 Tons
Secure Document Destruction	\$0.10/Pound	3 Tons
Refrigerated Appliances	\$5.00 Each	230 Each
All other Appliances	Free of Charge	Unknown
Compost Bins	\$40.00 Each	182 Sold

Strengths of the program include:

- Accessible central location in Springfield near main shopping area for the county.
- Provides a regular opportunity to recycle otherwise difficult to recycle items.
- Small fees encourage customer responsibility for generation.
- User fees enable virtually unlimited recycling capacity.
- Visibility for the Waste Management District increases public awareness of programs and services.
- Staffing efficiencies gained with co-location of offices.
- Facility enables the District to bale and sell office paper from government offices and cardboard from drop-off recycling stations and small businesses which generates revenue for the District.

Challenges of the program include:

- Other than the possibility that the 10,000 sq. ft. facility and one acre lot will become too small as program demand increases significantly, there are no challenges to report.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	2007
EPA Program Number from ADR	6138
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Office paper, cardboard, paperboard, tires, latex paint, CFL bulbs, batteries, TVs, electronics, CFC and other appliances
2009 Recycled Tonnage	139
2009 Annual Program Costs	\$25,619
Program Operator/Contractor	District

2. Curbside Recycling Program

In 2009, there were 19 communities that reported curbside recycling services were available. Of this total, 2 were non-subscription (NS) and 17 were subscription. In 2009, these programs recycled 800 tons of materials.

Each curbside recycling program collected at a minimum aluminum and steel cans, glass, newspaper, cardboard, magazines, mixed paper, and plastic No. 1 and No. 2. Table III-4 details each program including the materials accepted and other operating details. The following section summarizes the curbside programs in the District.

Non-Subscription Programs

Only two communities contracted for collection to include curbside recycling to their residents: the City of New Carlisle with Allied/Republic and the Village of Tremont City with Rumpke. These communities have assumed responsibility for this effort although the Village of Tremont City asked the District to facilitate their first bid process. Both communities offer a flat rate option and a volume based option for service along with curbside recycling for all. Both have over 50% participation in recycling. The following table summarizes these programs:

Location	Operator	Tons Recycled
New Carlisle	Allied/Republic	344
Tremont	Rumpke	21

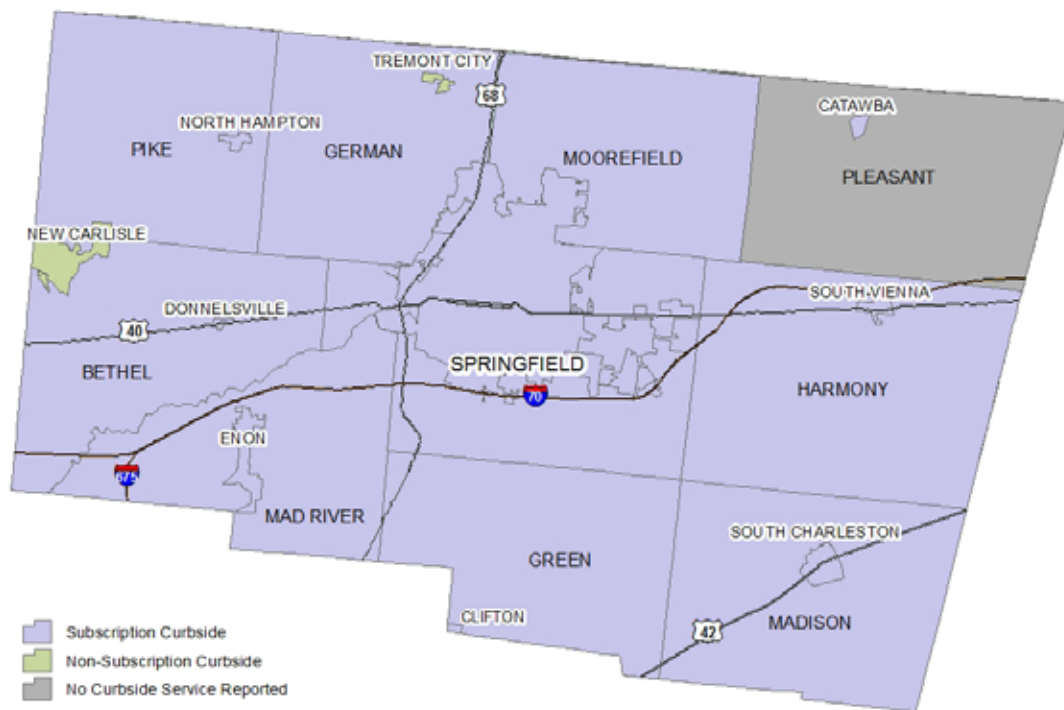
Subscription Programs

A total of 17 subscription curbside programs were operating in 2009 and recycled 436 tons of materials. WMI, Rumpke and Vince operated these programs in most areas of the county. In the past, these services have been questioned by the District but during the development of this *Plan Update*, the District surveyed each hauler who reassured the District that the services are offered in the areas listed below. The following table summarizes the subscription curbside programs for 2009:

Location	Operator	Tons Recycled
Catawba Village	Waste Management, Rumpke, Vince	436
Clifton Village		
Donnelsville Village		
Enon Village		
North Hampton Village		
South Charleston Village		
South Vienna Village		
Springfield City		
Tremont City		
Bethel Township		
German Township		
Green Township		
Harmony Township		
Madison Township		
Mad River Township		
Moorefield Township		
Pike Township		
Springfield Township		

The following figure depicts the location of all non-subscription and subscription curbside recycling programs in the District:

District Curbside Recycling Activities



The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	723, 724
Entity Responsible for Maintaining Program	Private Sector
Service Area for Program	District
Materials Reduced/Recycled	Aluminum and steel cans, newspaper, glass, magazines, mixed paper, cardboard and plastic
2009 Recycled Tonnage	800
2009 Annual Program Costs	Ongoing by Program
Program Operator/Contractor	Private Sector

Strengths of the program include:

- Although most customers in Clark County are on a subscription service, most have curbside recycling available to them.

- All non-subscription customers have curbside recycling at no extra charge, and volume based service options available that give some incentive to recycling.
- Subscription customers have the choice of who to select for a hauler and many have strong local preferences.

Challenges of the program include:

- All haulers provide curbside recycling for an additional charge which acts as a deterrent when free drop-off recycling is available and being paid for by the District.
- For most residents living in the rural areas outside the City of Springfield, or high density communities, curbside recycling is only available where it is contracted.

3. Contracting/Franchise Waste Collection Program

Only two communities (New Carlisle and the Village of Tremont City) have non-subscription waste collection and recycling in Clark County. The District recognized the many benefits of franchising and contracting to provide waste collection services in 2009. The primary benefits include:

- Lowest cost to the resident,
- Comprehensive recycling at no extra charge,
- No extra charge for collection of bulk items,
- Ability to offer effective pay as you throw (PAYT) option,
- Reduces illegal disposal incentives, and
- Reduces impact on roads of heavy trucks.

The current plan required that the District attempt to facilitate contracting options as a primary strategy. In 2009 and 2010, the District worked with the City of Springfield to facilitate a contract for curbside waste and recycling. A multi-faceted task force was created, a 10,000 household survey was conducted, a Feasibility Study was done, and several attempts were made to persuade the City leaders to move toward contracting for service.

Unfortunately, the City Charter precludes the City from arranging for, or billing for, waste collection for its residents, therefore it would require a charter amendment by a majority of voters in order to be changed. The City leaders have, thus far, been unwilling to put the issue on the ballot.

The following table summarizes the program details.

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	6143
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	N/A
Program Operator/Contractor	District

Strengths of the program include:

- The District was able to assist one small community (Village of Tremont City with 150 households) with initiating a contract for waste collection service which included a PAYT option and comprehensive recycling and bulk item collection. That program has been successful and the community is in the second term of their contract.
- The non-subscription communities have the highest rates of recycling and the lowest total costs of collection in the county.
- Non-subscription communities have uniform service with more accountability of their hauler.
- Non-subscription communities have fewer trucks on their routes compared to subscription communities.

Challenges of the program include:

- Many people have a strong desire to select their own hauler in Clark County and do not want the local government arranging for their trash collection service. Political leaders are sensitive to this issue.
- A contract for service will require a charter amendment in the City of Springfield which will need to be placed on the ballot in a general election.

4. Drop-Off Recycling Program

Multi-Material Programs



Multi-material drop-off recycling stations were initiated by the District in 1998 to primarily serve multi-family residents. The program has grown to serve rural residents, City of Springfield residents, small businesses and multi-family

residents that do not have cost effective curbside recycling available to them due to the structure of the subscription collection programs which charge extra for curbside recycling or offer volume based collection systems without free recycling. More and more residents are choosing to recycle at the convenient drop-off stations.

In 2009, there were three multi-material recycling drop-off stations in the District which recycled 383 tons of materials. All drop-off stations collected at a minimum the following materials:

- Cans
- Glass containers
- Plastic #1 and #2,
- Aseptic containers
- Mixed paper (newspaper, office paper, magazines)
- Cardboard
- The West Station also accepts books



The following table summarizes the drop-off centers operated in 2009 including their operator and operating status:

Location	Operator	Operating Status
North Recycling Station	District	Full Time
West Recycling Station	District	M-F 8am-4:30pm
Rural Recycling Station	District	Full Time

These stations consist of 17 cubic yard roll-off boxes that collect commingled (cans, glass and plastic) and cardboard. The containers are made for the purpose of recycling and are transported by a District truck and driver. Commingled materials (aluminum and steel cans, glass, plastic) are delivered to the WMI Material Recovery Facility (MRF) in Fairborn, Ohio for a tipping fee of \$25 per ton. Cardboard is transported to the District Recycling Center where it is baled and sold.

The program has grown significantly in recent years. For example:

- In 2008, they collected 66 tons of commingled material driving 141 trips to the MRF.
- In 2009, they collected 118 tons of commingled material driving 252 trips to the MRF.
- In 2010, they collected 153 tons of commingled material driving 306 trips to the MRF.
- The other materials grew at a similar pace in the program as well.

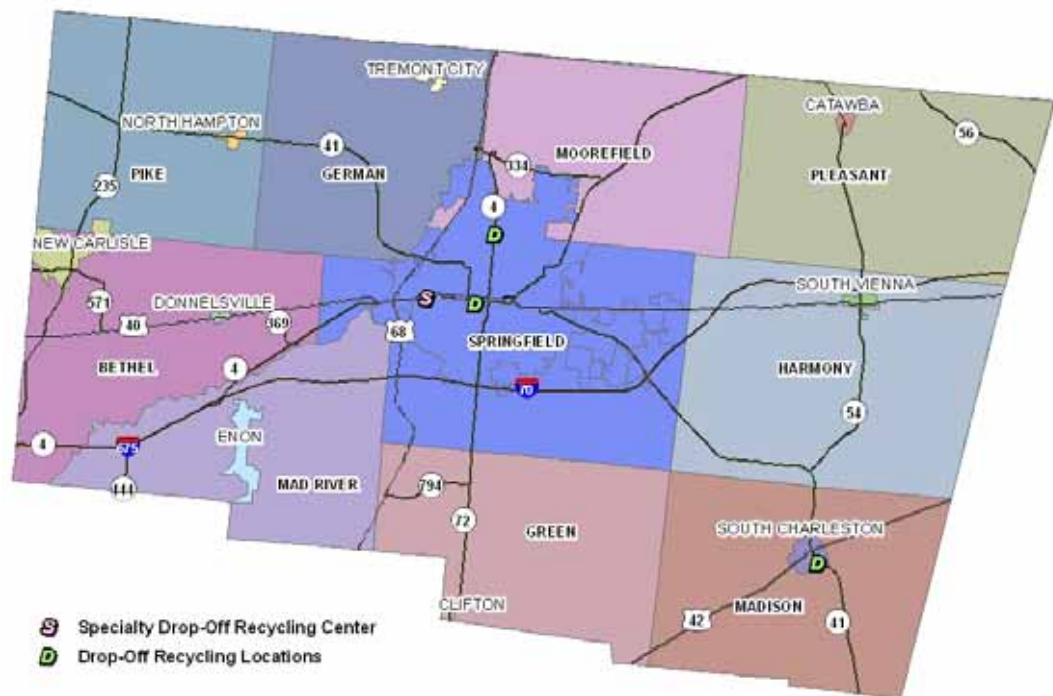
Limited Material Recycling Programs

In 2009, there were 25 Abitibi limited material recycling drop-off locations in the District. Of the 25 locations, 6 bins were co-located with the District Recycling Stations which resulted in 157 tons of newsprint and mixed paper being recycled. In addition, there were 52 other drop-off locations that accepted limited items for recycling such as used motor oil and other automotive fluids, batteries, eye glasses, coat hangers, construction materials, clothes, household items, bubble wrap and peanuts, computers, printer cartridges, scrap tires, appliances and other materials.

The District includes these businesses in this section of the *Plan Update* as they are an important part of the drop-off recycling infrastructure of the District. The District also advertises these locations on its website and in printed brochures. Since these businesses do not collect all of the materials designated for residential recycling, they cannot be used to demonstrate residential access and will not be included in Section VI of this *Plan Update* regarding the implementation schedule.

The following figure depicts the location of all District-operated drop-off centers in Clark County:

District Drop-Off Facilities



The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	1998
EPA Program Number from ADR	728, 6142, 6191
Entity Responsible for Maintaining Program	Private sector and not-for profit organizations (See Table III-5)
Service Area for Program	District
Materials Reduced/Recycled	Newspaper, phone books, catalogs, office paper, mixed paper, glossy paper, corrugated cardboard and other materials
2009 Recycled Tonnage	383 Multi-Material Centers 2,779 Limited Material Centers
2009 Annual Program Costs	\$44,517 – Multi-Material Centers * \$0.00 – Limited Material Centers
Program Operator/Contractor	Private sector and non- profit operators

* Included a one-time grant for \$25,000 to purchase a paper shredder.

Strengths of the program include:

- The program has been well utilized by the public and continues to grow.

- The program is far more affordable for the District than an earlier drop-off recycling program that was undertaken in the early 1990s, which relied on private waste haulers to provide the transportation using 40 yard roll-off containers.
- The locations are well suited and provide public access in strategic locations to make the program as accessible as three locations possibly can.
- The program is working reasonably well without an abundance of misuse and contamination.
- The program provides the District with fiber materials that in 2010 earned over \$24,000.
- The program provides comprehensive recycling opportunities when curbside is not available.
- The program provides recycling opportunities to multi-family dwellings and small businesses.

Challenges of the program include:

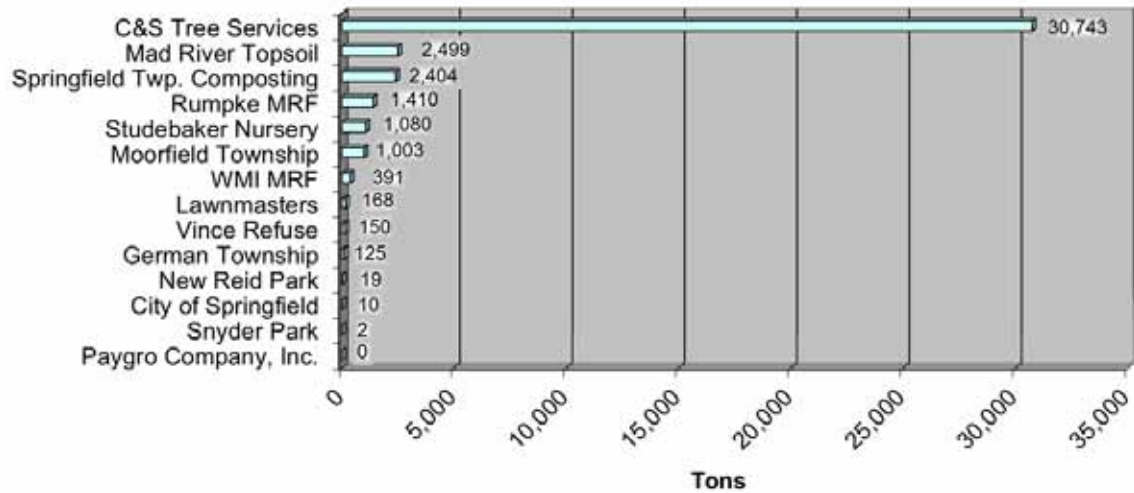
- Demand/use is overtaking the District's ability to maintain this program as it is structured with the current staffing.
- Some stations can be full in the evening when they were emptied that morning.
- With only three locations, the program is not as widely accessible as some would like.

5. Yard Waste Management Program

In 2009, there were 6 registered yard waste composting facilities that recycled 35,824 tons. There were also 5 non-registered facilities, activities and drop-off centers in the District that recycled 2,229 tons of materials. Finally, there were hauler sponsored yard waste collection programs in 2009 that recycled 1,951 tons of material. In total, these facilities, activities and haulers composted 40,004 tons of yard waste materials in 2009.

The following chart summarizes the yard waste and compost sites' performance in 2009:

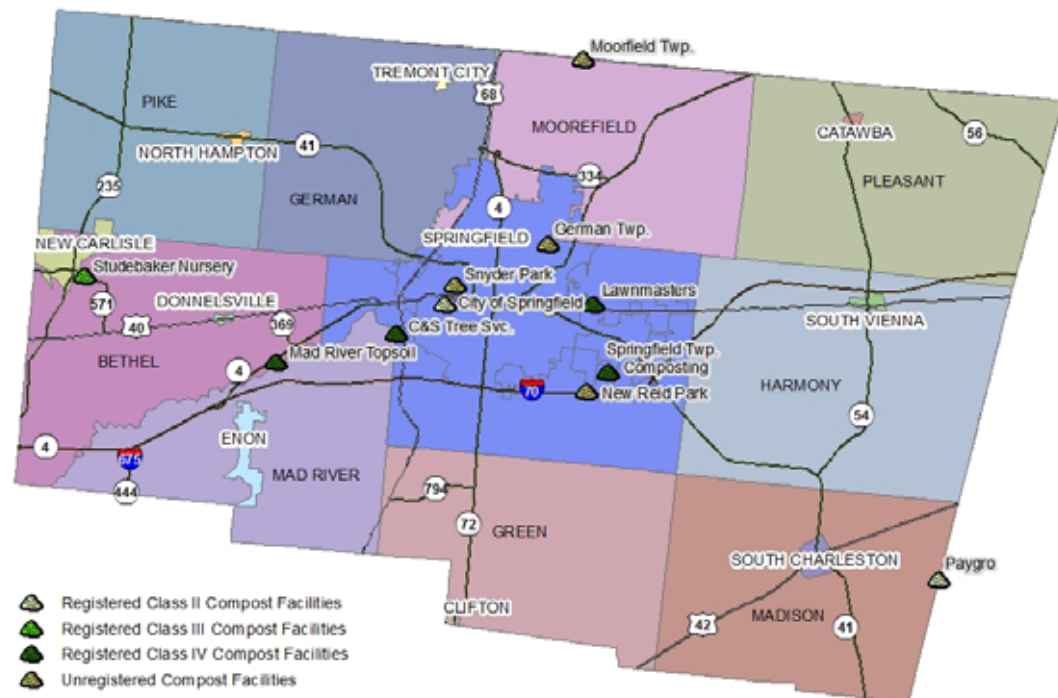
District Yard Waste Recycled Tons by Facility/Program in 2009



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

The following figure depicts the compost facilities and yard waste drop-off sites in the District in 2009:

District Yard Waste Management Facilities/Activities in 2009



In addition, the District had 3 townships that conducted curbside yard waste collection in 2009. The following describes each program:

- Moorefield Township – collected yard waste from April through September of 2009 on mostly weekly frequency. In 2009, they collected 360.75 tons of brush and 669.3 tons of leaves for a total of 1,030.05 tons. Most of the yard waste was sent to Lawnmasters, some to other nurseries and residents took some.
- German Township – collected yard waste all year with a few exceptions. The Township staged the collected yard waste in a brush pile where residents could use the materials. No tonnage was provided for 2009.
- Springfield Township – collected yard waste from early April to October of 2009. The Township brought the collected materials to their own composting facility where residents could use it. No tonnage was provided for 2009.

The District promotes composting by conducting workshops at related events and offering backyard composting bins for sale at wholesale cost. The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	6154, 6151, 6152, 6155, 6159 6153, 6157, 6161, 6156, 6158 6150
Entity Responsible for Maintaining Program	District political subdivisions and private sector compost facilities
Service Area for Program	District
Materials Reduced/Recycled	Yard waste, food waste, brush, leaves, grass, wood
2009 Recycled Tonnage	40,004
2009 Annual Program Costs	\$2,297
Program Operator/Contractor	Various political subdivisions and private sector compost facilities

Strengths of the program include:

- The District diverted a significant amount of yard waste from landfills in 2009.
- There are ample opportunities to dispose of all yard waste for free locally.

- Some townships also collect brush curbside.
- The City of Springfield provides two free bagged leaf collections each fall.
- This is all accomplished at no cost to the District.

Challenges of the program include:

- None noted.

6. Household Hazardous Waste (HHW) Management Program

In 2009, the District held an HHW collection which resulted in a total of eight tons of HHW materials being recycled. The following materials were accepted at the collection events:

- Oil based paint, stains, shellacs, varnishes, and lacquers
- Automotive fluids
- Pesticides and herbicides
- Pool chemicals and cleaners
- Adhesives and other miscellaneous flammable products
- Mercury containing devices



Regular Latex Paint Recycling

Since 2007, the District has had an established Specialty Recycling Center that accepts latex paint on a weekly basis for recycling at 25 cents per pound. The District also encourages residents to dry paint and provide instructions on their website and in a flyer.

Latex paint has not been accepted since 2008 at local HHW collections as it is not a hazardous waste and otherwise constitutes nearly a third of the HHW stream.

Lead Acid Battery Recycling

When the current *Plan Update* was written, it was anticipated that the District would accept lead-acid batteries at the Recycling Center. However, with further research, the District determined that it was not necessary to recycle lead acid batteries at the Recycling Center because there were at least six other businesses that provided this service for free and most even pay or offer credit for the lead acid batteries.

Based on this research and the lead-acid battery recycling infrastructure in the County, the District only advertises via its website and brochures the various local outlets for lead-acid battery recycling.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Bi-annual since 1991
EPA Program Number from ADR	755, 756, 6140
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Paint, automotive fluids, antifreeze, pesticides, batteries, miscellaneous chemicals, roof tar, driveway sealer, mercury containing devices,
2009 Recycled Tonnage	94
2009 Annual Program Costs	\$14,547
Program Operator/Contractor	PSC

Strengths of the program include:

- Ongoing opportunity to recycle latex paint at the recycling center which is the largest portion of the HHW stream.
- Ongoing opportunity to recycle lead-acid batteries and get paid for them.
- Relatively high cost of latex paint recycling (25 cents per pound) encourages waste reduction and drying it up by generator.
- A significant portion of the HHW material collected is recycled.
- Participation rates for collection events have ranged from a high of 2,200 cars in 1994 to a more recent low of 150 in 2010.
- All residents in the District have the opportunity to participate for no charge in the one-day collection general HHW collection program.
- Provides an opportunity for the District to educate residents on HHW management issues and other District initiatives.

Challenges of the program include:

- One-day collections often miss many people that would otherwise participate.
- One-day collections do not provide an outlet for residents in the process of moving.
- One-day collections are very costly to stage due to huge staffing and equipment needs.
- Free collections do not encourage waste minimization.

7. Electronics Recycling Program

The District accepts a wide range of electronics at the District Recycling Center. These materials included:

- Televisions
- CPUs
- Keyboards, mice, and other peripherals
- Monitors
- Printers, scanners, copiers and fax machines
- Hard drives
- Most other electronics



In 2009, a total of 101 tons of computer and electronic materials were recycled. In addition, the District held one free television recycling day that accepted more than 40 tons of materials.

At the Recycling Center, the District charged ten cents per pound for televisions and monitors in 2009. A flat rate of \$10.00 for TV tubes was also charged. All other electronics were accepted for free.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	2007
EPA Program Number from ADR	6139
Entity Responsible for Maintaining Program	District
Service Area for Program	District

Program Summary	
Description	Details
Materials Reduced/Recycled	CPUs, Keyboards, Monitors, Printers, Fax Machines, Televisions, other Electronics, TVs
2009 Recycled Tonnage	101
2009 Annual Program Costs	\$15,970
Program Operator/Contractor	Creative Recycling Solutions

Strengths of the program include:

- Sixty-one tons of electronics and 40 tons of TVs were recycled in 2009.
- Nearly all of the electronic material collected is recycled by Creative Recycling Solutions
- All residents in the District have the opportunity to participate in the program on a regular basis.

Challenges of the program include:

- Initially, the costs were higher (for the District and for the customer), but as of 2009 the District is only charged, and is charging, ten cents per pound for TVs and computer monitors and all the rest are free.
- No other challenges were noted.

8. Scrap Tire Recycling Program

The District collects scrap tires at the District Specialty Recycling Center.

- Illegally dumped tires are also accepted from townships and from the PRIDE program.
- Tires at the Recycling Center are accepted at a fee of ten cents per pound from most customers.
- Tires are accepted from low-income community cleanups for no charge.



In 2009, the District collected and recycled 44 tons of scrap tires.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing Annually since 1991, weekly since 2007
EPA Program Number from ADR	6137
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Scrap Tires
2009 Recycled Tonnage	44
2009 Annual Program Costs	\$6,206
Program Operator/Contractor	District

Strengths of the program include:

- A significant amount of scrap tires were collected and recycled in the District for very little cost to customers and to the District.

Challenges of the program include:

- None.

9. Government Office Paper Recycling

The county delivers all recyclable paper and cardboard to the Specialty Recycling Center where it is baled and sold. Every county office is supplied with recycling containers. In 2009, the following buildings participated in this program:

- Springview Government Center
- Administration
- AB Graham
- County Jail
- Juvenile Detention
- District Office

In 2009, this program recycled 129.67 tons.

The program saves the county on disposal costs and is self-sustaining.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	732
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Office Paper, OCC
2009 Recycled Tonnage	129.67 tons
2009 Annual Program Costs	N/A *
Program Operator/Contractor	District

* Program costs are difficult to calculate as the material is delivered at no cost by other county department employees in order to save on the cost of collection service to the county. Baling is done by PRIDE inmates for free. Balers and a fork lift were purchased years ago with grant dollars. The facility and staff who load trucks serve many other programs as well. The money earned on the paper is tied to the market.

Strengths of the program include:

- Clark County government workers recycle at these buildings:
 - ✓ Springview Government Center
 - ✓ AB Graham Building
 - ✓ Public Admin Building
 - ✓ County Courthouse
 - ✓ Juvenile Court Building
 - ✓ Public Safety Building
- Saves the county money on service and generates money for the District.

Challenges of the program include:

- None.

10. Business Paper Recycling

This program offers businesses the use of the District's three Recycling Stations for recycling paper and cardboard.

Since many businesses do not generate enough paper and/or cardboard to justify a separate recycling bin at their location, the District promoted to businesses the opportunity to use one of the District's three recycling

drop-off stations. Businesses also delivered truckloads of cardboard directly into the recycling center for convenience.

The District also promotes the Abitibi recycling boxes which are located throughout Clark County to the local businesses.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing to some degree since 1997
EPA Program Number from ADR	6144
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Office Paper, OCC
2009 Recycled Tonnage	226 tons (includes drop off recycling stations)
2009 Annual Program Costs	N/A *
Program Operator/Contractor	District

* Program costs are difficult to calculate as the material is delivered to Recycling Stations or to the Recycling Center. Baling is done by PRIDE inmates. Balers and a fork lift were purchased years ago with grant dollars. The facility and staff who load trucks serve many other programs as well. The money earned on the paper goes along with the market.

Strengths of the program include:

- Businesses that generate a small amount of fiber have the opportunity to recycle office paper and cardboard where they would not otherwise be able to.
- The District generates revenue from the sale of paper and cardboard.

Challenges of the program include:

- None noted.

RESIDENTIAL/COMMERCIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

11. Education and Awareness Program

The District utilizes a variety of efforts to provide education and awareness to all sectors in Clark County for youth and adult audiences, small and

large businesses and institutions. The program was designed with the following initiatives:

- Close the Loop Campaign
- Model Communities
- PAYT Promotion
- School Support/Education Grants
- Community Outreach
- Informing the Public

The following section summarizes the District's education and awareness initiatives for 2009.

Close the Loop Campaign

In an effort to remind people to purchase recycled content products, the District included information on the website and in the main brochure "Reduce, Reuse, Recycle".



In addition, the Recycling Center office was developed with many recycled materials that carry permanent signage that demonstrate the recycled value to all visitors.

The District also, almost exclusively, purchased recycled content promotional items to distribute and prints exclusively on recycled content paper (identified as such). The District also assisted the West End Neighborhood Association by granting \$907 towards the purchase of a recycled plastic sign.

Finally, the District also offered \$3,000 in 2009 in 50:50 matching grants to communities or community groups to purchase recycled content community improvements such as benches, picnic tables, signage or trash cans, etc. In 2009, a recycled content kiosk and bench were purchased for the bike path and a sign was purchased for a local neighborhood group.

In 2009, the District distributed 3,000 recycled content go-green bags and many other smaller items such as pencils and rulers for distribution to volunteers and students.

The message that, "It isn't really recycling until you are purchasing recycled content materials." is used regularly when recycling is promoted.

Strengths of this Initiative:

- Matching grants support local purchases that demonstrate the value of recycling and the valuable products created.
- Distribution of pencils, bags, rulers and other items to kids is a good way to demonstrate the value of “Closing the loop”.
- Utilizing recycled content materials at the Recycling Center has initiated many questions and encouraged the use of some of the same materials.

Challenges of this Initiative:

- None noted.

Model Communities

This program was designed for the District to focus on one township each year to encourage recycling to all sectors. It would enable the District to get to know each community better and to focus on them for a year, such as grant funded purchase of recycled content park equipment and signage, actively supporting a special event in their community, providing a free community cleanup day, working with their schools to establish recycling and to target their businesses for technical assistance.

This program accomplished its purpose for ten years, reaching every township and village in the county.

It was then discontinued in 2009 in lieu of newer initiatives that required District time and resources such as the Recycling Center and more community outreach.

Strengths of this Initiative:

- The program achieved its goals. Each township received the focus of the District attention for one year and the majority of our resources.

Challenges of this Initiative:

- None noted, but it has served its purpose and we are moving on to other programs.

PAYT Promotion

The District always promotes PAYT as an incentive to recycle. The District also promoted haulers who offered PAYT with recycling. Promotion is done in brochures and on the District's website.

The District also promotes PAYT in any contracting assistance to communities.

Strengths of this Initiative:

- Four haulers provide a volume based system of collection in Clark County.
- Tremont started contracting with a PAYT option that encourages more recycling.
- New Carlisle has a long held contract for collection that includes a PAYT option as well.

Challenges of this Initiative:

- The PAYT option offered by haulers does not always allow free recycling.
- When PAYT is utilized with subscription service and the recycling costs more, it increases the demand for the District's recycling drop off service.

School Support/Education Grants

In 2009, the District provided two newsletters "Reduce, Reuse and Recycle for Educators" (Spring and Fall) to every teacher in the county (including home schools). In 2010, the District began distributing this newsletter via email along with posters to each school to remind teachers to look for it.

The District also offered up to \$3,000 in mini grants for educators to provide environmental education programs relating to waste reduction and in 2009, four were awarded for classroom activities and three compost bins were given away to educators.

In 2009, the District piloted a skit “Keep Clark County Beautiful” that was targeted to second and third grade students. The script was reviewed by a panel of educators and intended to meet age appropriate learning objectives. The performers are District staff and one contracted storyteller. The results after 800 students enjoyed the show were outstanding, and the District has continued to perform the skit regularly with a goal of having all Clark County students see it in either the second or third grade.



The District has historically offered workshops to teachers on a variety of subjects. In 2009, there were no workshops conducted due to lack of interest.

Strengths of this Initiative:

- The newsletter allowed the District to promote its programs, grants and services and was simple to produce. The District tested the readers to ensure that an e-newsletter would be satisfactory before it was implemented. The e-newsletter is less costly and reduces waste.
- The mini-grants allowed teachers, administrators, and even students to get some help with projects that either promote waste reduction and recycling or implement waste reduction and recycling in the school.
- The KCCB skit has been a great success in entertaining while educating students at the right age about the value of recycling and litter prevention. It has received rave reviews and is in high demand.
- Teachers attended workshops when useful and relevant information that met their learning objectives were offered and they had time available.

Challenges of this Initiative:

- None noted.

Community Outreach

The District offered a broad community outreach effort in 2009 that included public campaigns, presentations, booths and displays.

The District employed a full time Program Coordinator, a Program Assistant, and as of 2010, a Community Relations Specialist, all of which have a strong focus on education and outreach.

In 2009, a total of 12 environmental education presentations addressing litter and recycling were conducted.

In 2007, the District started a local Keep America Beautiful Affiliate, Keep Clark County Beautiful (KCCB). The mission of KCCB is “To engage residents to take pride, ownership, and responsibility for enhancing their community’s environment”. This has helped to increase awareness for recycling and litter prevention. KCCB broadens the District’s impact with the contributions of an energized board, new funding opportunities, national awareness campaigns, and a friendly name for some of our initiatives.

The District staff acted as the KCCB staff as well and funds were kept in a separate account with the county auditor.

In 2009, KCCB:

- Sponsored the Great American Cleanup with 750 volunteers collecting over 1,000 bags of litter.
- Located 50 litter receptacles along the Memorial Day Parade Route.
- Sponsored 18 schools for the Kroger Earth Day Bag decorating contest.
- Sponsored a Cigarettes are Litter too campaign at the Young’s Jersey Dairy (Youngs). KAB awarded the District a \$1,500 grant, with 400 pocket ashtrays provided in addition. The District spent \$242 as a 50% match for Young’s to buy ash receptacles, \$800 to buy an additional 800 pocket ashtrays, and about \$250 for supplies and music at our event at Young’s. The District gave Young’s 400 pocket ashtrays, and they gave them all away. The District distributed ashtrays to residents at the Clark County Fair. The District had about \$200 left and used it to buy another 200 pocket ashtrays, which will be distributed.



The District conducted cigarette litter scans on July 1, July 15 and August 5 in the parking and picnic areas at Young’s restaurant. Deputy David Burch brought PRIDE inmates who picked up the cigarette butts for the count. The counts were 473, 430 and 257. We usually discard the first scan because it would include a

long-term accumulation of cigarette litter. The decrease from the second to third scans was 40%. Achievements of this campaign:

- Helped place 8 new ash receptacles at Young's Jersey Dairy.
 - Recorded a 40% decrease in cigarette litter over a three-week period after campaign.
 - Distributed about 1,400 pocket ashtrays.
 - Submitted message featured in the Your Turn column by Matthew McNelly in the *Springfield News-Sun* on July 15, 2009.
- Developed a graffiti removal unit to be used by various political jurisdictions to remove graffiti.
 - Sponsored a booth and recycling at the County Fair.
 - Improved a small park on county property.
 - Attended a Green Halloween at the Governor's residence in Columbus and made it a zero waste event.
 - Sponsored a free TV recycling for America Recycles Day.
 - Earned national honors for a local member who won the Mrs. Lyndon B. Johnson award for her years of service.
 - In 2010, KCCB started social networking including a Facebook page.
 - Booths were also sponsored at the OSU Extension Jubilee, the Farmer's Market, National Night Out, and the Hollandia Bulb Festival.

Strengths of this Initiative:

- The District is involved as a sponsor, a participant, or a partner in many community events and enjoys engaging a broad range of people in various locations with our messages.
- KCCB has been a huge asset for expanding community outreach and has helped to put a face on many of our programs and messages.

Challenges of this Initiative:

- None noted.

Informing the public

Brochures that identify all local recycling opportunities and how to reduce waste such as Reduce, Reuse, Recycle (previously Trim your Waste), Home Composting, Tackle Toxic Trash, the Clark County Specialty Recycling Center, the Clark County Recycling Drop-off Stations, and Keep Clark County Beautiful are the standards that were always available. Additionally, information on special events is provided here as well.



The District maintained brochure racks in four strategic locations at the Public Library, the County Administrative Building, Springfield City Hall and the Clark County Recycling Center. Info Racks were also a part of the three Recycling Stations with information on how to use that program.

Brochures are distributed at all presentations, special events and info booths as well.

The District website was upgraded in 2009 to have a more clear and comprehensive format and to be able to be maintained by District staff which is more practical in order to keep it up to date.

Other information avenues included:

- Digital signage at the Recycling Center (on Main Street in Springfield) made folks aware of programs and services.
- Monthly ads, press releases, and media coverage advertise the Recycling Center and other programs.
- The local public access channel broadcast information on HHW and Great America Cleanup.
- The District also advertised the Recycling Center on Springfield.net, in the Chamber Map, and in The Yellow Pages.

Strengths of this Initiative:

- Brochures are all designed in-house and generally printed in-house for cost savings. All major programs have a brochure. One brochure, Reduce, Reuse, Recycle, has all recycling information in the county in one brochure.
- Thousands of brochures are distributed each year.
- The Info Racks have been in place for 15+ years so people have become accustomed to finding our information.
- The website has been a valuable asset for providing instant information for many (www.32TRASH.org).
- The District regularly advertises and employs many free and low cost avenues for informing the public
- Awareness is strong in the community for our programs and services as is evidenced by strong participation.

Challenges of this Initiative:

- None noted.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	739,746,736,738,747, 743, 6130, 6146, 6136, 6129
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	\$6,941
Program Operator/Contractor	District

COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL SECTOR PROGRAMS

12. Business Waste Reduction Assistance Program (BWRAP)

The District offered technical assistance and education/awareness to commercial and industrial sector businesses and institutions in 2009.

Elements of this program included:

- Provide direct assistance to encourage Clark County businesses and institutions to employ waste reduction programs.
- Develop a web page specific to business assistance.
- Target businesses by waste type to proactively approach to encourage waste reduction strategies.

The District has always worked with companies to provide technical waste reduction assistance on the basis that they contact the District. The current plan called for proactive and strategic targeting of our efforts.

Mid-Plan Correction

This strategy was developed at a time when businesses were only approaching the District occasionally. However, once the District opened the Specialty Recycling Center in 2007, which gave the District more of a presence in the community, and the “Go Green” movement began to energize across the country, more companies began contacting the District directly.

In 2007, the business link was added to the existing District website. As a result, three very significant local manufacturers contacted the District to assist them with waste reduction, which resulted in many hours of service. There was no additional staff time available for the “targeting” effort that the District had planned and that had so few results the preceding year.

Based on available staff time, the District felt that it was more efficient and effective to work with companies that approached the District rather than trying to promote support to those businesses who were not as interested.

With that said, assistance was provided to five businesses in 2008 and eight businesses in the District in 2009:

The following table summarizes the program details.

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	6149, 6145, 6148
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	N/A
Program Operator/Contractor	District

Strengths of the program include:

- More businesses were encouraged to develop waste reduction programs.
- Creates good working relationship with commercial/industrial businesses.
- The District is able to promote recycling and waste reduction.
- Increases recycling rates for the District.

Challenges of the program include:

- District staff time is limited.
- Businesses were not always responsive to our canvassing effort which is why we have discontinued the targeted approach.

OTHER PROGRAMS

13. Litter Prevention/Clean-Up Programs

The District utilizes a variety of efforts to provide outstanding litter prevention and cleanup services to all sectors in Clark County. The program was designed with the following key elements:

- Adopt-a-Road/Spot
- Earth Day Community Clean-Ups (Great American Cleanup)
- Emmanuel Cleanup on Bechtle
- Memorial Day Parade
- Environmental Enforcement/Pride Program
- Litter Hotline

The District sponsors many successful programs to help prevent and clean up litter:

Adopt a Road/Spot

In 2009, 94 miles and 18 spots were adopted and most were cleaned four times during the year.

Earth Day Community Clean-Ups (The Great American Cleanup)

In 2009, over 750 volunteers from churches, 4-H groups, Girl Scout and Boy Scout Troops, schools, businesses, Adopt-a-Road groups and others picked up over 1,000 bags of litter from public areas during this three month opportunity. Prizes were donated from the following:

- Young's Jersey Dairy
- Putt-Putt Golf and Games
- Lee's Famous Recipe Chicken
- Columbus Zoo
- National Trail Parks and Recreation
- Chakeres Theaters
- Fast Lane Car Wash
- Victory Lanes
- Springfield Health and Fitness
- 800 Paint Place
- Foreman-Blair
- Los Mariachis
- Family Video
- Clark County Waste Management District
- The Oasis



Almost 27 tons of litter were picked up in Clark County during the 2009 cleanup.

Emmanuel Cleanup on Bechtle



One of the biggest single-day events was on May 8, 2009 when 120 Emmanuel Christian students cleaned up in the North Bechtle Avenue corridor. They picked up 112 bags of litter and 19 bags of recyclables. Walmart supported the cleanup by providing lunch for the students and making a portion of its parking lot a staging area.

Memorial Day Parade

The District participated in the 2009 Memorial Day Parade. Rumpke provided litter containers and PRIDE and the District placed them along the parade route. A total of 50 bags of litter were collected.

In addition, Lucky the Ladybug, Ohio's first lady of litter prevention, road in the parade to encourage everyone to dispose of litter properly.



Environmental Enforcement/PRIDE Program (Providing Responsibilities for Inmates thru Duties for the Environment)



The District funds a full-time Sheriff's deputy to utilize inmates for clean-up activities in all public areas, to support District special events and provide labor for the Recycling Center, including baling all paper and cardboard, removing tires from rims, dismantling appliances for best scrap price and various maintenance duties

In an effort to be more cost effective, starting in 2008 the District only contracts for one full time deputy (instead of 2) to perform enforcement for litter and dumping, and coordinate inmate labor at the Recycling Center and to do cleanups. Statistics prove that one good deputy is able to accomplish as much as two did in the past.

Litter Hotline

The District operates and advertises a 24-hour hotline to report litter or illegal dumping on 180 signs in the county. Each call is investigated by the District Environmental Enforcement Deputy. In 2009, 301 complaints were received and investigated.

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	6132, 6133, 6135, 762, 763, 764
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	OCC, office paper, scrap metal
2009 Recycled Tonnage	PRIDE baled over 100 tons of fibers
2009 Annual Program Costs	\$109,549
Program Operator/Contractor	District

Strengths of the program include:

- These programs effectively target litter and illegal dumping throughout Clark County with great efficiency and provide manpower for the Specialty Recycling Center.

- ODOT now pays us to do highway cleanups (\$9,600 in 2009).
 - ✓ 944 bags were collected in 2009
- One deputy is doing the work that two did in the past.
 - ✓ 25 litter related arrests were made in 2009
 - ✓ 226 dumpsites were cleared in 2009
- The District enjoyed a couple thousand volunteers to help Keep Clark County Beautiful during the Great American Cleanup and Adopt-a-Road programs.
- The District utilized grant funding, sponsorships and donations for many of these projects.
- The District had virtually free labor to bale paper and cardboard, and other duties at the Recycling Center and assist with setup and manpower for many other events.
- In 2009, these programs resulted in filling more than twelve, 40 cubic yard dumpsters with litter and illegally disposed debris.

Challenges of the program include:

- None noted.

14. Health Department Funding

Since the District was created, it has generously supported the combined health district with funding adequate to provide sanitarians to investigate solid waste facilities and nuisances. In 2009, the Health District completed the following services for the District:

Inspections of Licensed or Other Operations

Type	Annual
Composting Facilities	41
Trash Collection Vehicles	88
C & DD Facilities - Active (licensed)	13
C & DD Facilities - Closed	12
Scrap Tire Accumulations	63
Scrap Tire Transporter	1
Motor Vehicle & Other Salvage Yards	39
Closed Solid Waste Landfills & Dumps	14
Infectious Waste Generators	27
Legal & Illegal Fill Locations	12

Type	Annual
Mercury Spill Responses	5
Transfer Facilities	2

Gas Monitoring Reports Received

Facility	Annual
Springfield Landfill C & DD	0
The General Contractors C & DD	0
Tremont Landfill	6
Limestone City Landfill	1

Ground Water Monitoring / Quarterly / Annual Reports Received

Facility	Annual
Springfield Landfill C & DD	5
The General Contractors C & DD	11
Tremont Landfill	9

New Permits / Licenses Issued or Applications Received

Type of Permit / License / Application	Annual
C & DD License Applications Received	2
C & DD Licenses Approved	2
Solid Waste License Applications Received	3
Solid Waste Licenses Approved	3
Notices of Intent to Fill Received	10
Licensed Hauler Permits Given	107

Solid Waste Nuisance Inspections (each visit = inspection)

Descriptions	Annual
Solid Waste Nuisance Inspections	1248

Consultations / Meetings

Type	Annual
Committees - Technical Advisory or Policy	1
Community Cleanup / Environmental Enforcement	2
Ohio EPA Survey	5
Solid Waste	134
Workgroups - Health District/Ohio EPA/Ohio Environmental Health Association	14
Mercury	18

Soil & Water Testing

Type	Annual
Soil	0
Water *	0

* Leachate sampling of the Blee Road Landfill scheduled for Second Quarter 2010.

* Water sampling of the Perrin Woods Rain Garden scheduled for Second Quarter 2010.

Solid Waste Citations into Municipal Court / Board of Health (BOH) Orders

Type of Citation or Order	Annual
BOH orders – solid waste related *	3
505.08 – odor nuisance - city	0
919.05 – solid waste accumulation	3
919.051 – no contract with licensed hauler	2
922.06 – operating as unlicensed hauler	0
1361.05(c) – dangerous conditions	1
1361.06 – no sanitary facilities	0
3707.48 – violation of BOH order	6
3767.13 – odor nuisance - county	0

Facilities Inspected

Facility	Type
City of Springfield	Class II Compost
Ohio Dept. of Transportation	Class II Compost
Paygro, Garick Division	Class II Compost
Envirosure Technologies	Class III Compost
C & S Tree Service	Class IV Compost
City of Springfield	Class IV Compost
The General Contractors	Class IV Compost
Lawnmasters	Class IV Compost
Mad River Topsoil	Class IV Compost
Springfield Township	Class IV Compost
Jeff Martin	Class IV Compost
The General Contractor's Company	CDD Landfill
The Springfield Landfill	CDD Landfill
IOOF Home	Closed CDD Landfill
L & L Demolition	Closed CDD Landfill
Former Mike Hart C & DD	Closed CDD Landfill
Ron Brown Lower-Valley Pike	Closed CDD Landfill
Bird Road Dump	Closed Landfill
Crabill Road Landfill	Closed Landfill

Facility	Type
Dayton Road Landfill	Closed Landfill
Haulman's Landfill	Closed Landfill
Limestone City Landfill	Closed Landfill
New Carlisle Landfill	Closed Landfill
Plattsburg Road Dump	Closed Landfill
Ruscot's Landfill	Closed Landfill
Springfield – I 70 and SR 72	Closed Landfill
Springfield – SR 72 and SR 68	Closed Landfill
Tremont Landfill / Barrel Fill	Closed Landfill
Buckeye Wood Products	Recycling Facility
Clark County Recycling Facility	Recycling Facility
Grand Vista Oil	Recycling Facility
Pallets-R-Us II	Recycling Facility

The following table summarizes the program details:

Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	3861
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	\$138,688
Program Operator/Contractor	Combined Health District

Strengths of the program include:

- This funding provides necessary services relative to solid waste management in the county and ensures a partnership with the combined health district for other programs.

Challenges of the program include:

- None.

15. Legal and Consulting

The District allows for annual legal and technical assistance from lawyers and consultants. In 2008 and 2009, the District utilized GT Environmental, Inc. (GT) to conduct the curbside recycling study for the City of Springfield.

The following table summarizes the program details.

Program Summary	
Description	Details
Program Implementation	N/A
EPA Program Number from ADR	6169
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	\$7,400
Program Operator/Contractor	District

16. Operating Contingency

The District allotted a one-time operating contingency in 2007 of \$100,000. The District generation fees have been approximately 10% lower each year of this plan implementation, but the expenditures have generally followed the outline of the 2007 Plan. Therefore, approximately \$10,000 of the operating contingency has been used each year during this plan implementation.

The following table summarizes the program details.

Program Summary	
Description	Details
Program Implementation	2007-2011
EPA Program Number from ADR	6170
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	\$10,000
Program Operator/Contractor	District

17. Recycling Contingency

The District allotted a one-time recycling contingency in 2007 of \$50,000. The District has not expended this funding.

The following table summarizes the program details.

Program Summary	
Description	Details
Program Implementation	2007
EPA Program Number from ADR	6171
Entity Responsible for Maintaining Program	District

Program Summary	
Description	Details
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	N/A
Program Operator/Contractor	District

18. Other Facilities

The District has historically listed facilities in the solid waste plan that support, or are active in, the management of solid waste in the District. The following is the historical list of facilities from previous solid waste plans.

- Springfield Recycling LLC
- Staker Metal Alloys
- Buckeye Wood
- Rumpke Recycling MRF
- Waste Management TF/ MRF
- Montgomery County TF (North and South)

District Specialty Recycling Center

The center for which residents can recycle special wastes (such as electronics, latex paint, used tires, appliances, fluorescent lamps, lead acid batteries, NiCad batteries, etc.) regularly throughout the year.

In-District Transfer Station

As reported in the 2009 ADR, the District will monitor the need for a transfer facility in Clark County. The District's policy in 2009 was as follows:

Level 1

Support the private sector solution. Assure that the solid waste management plan does not include provisions that would discourage the development of a well sited, privately owned and operated transfer station in Clark County. Educate elected officials, residents and the local waste haulers on the potential benefits of a transfer station.

If Level I does not generate the development of a local transfer facility, the District will consider the Level II strategy and may, or may not, proceed to Level II.

Level II

Issue a Request for Proposals for a privately-owned and privately-operated transfer station.

If the District does not receive any proposals, or an acceptable proposal, it will consider the Level III strategy and may, or may not, proceed to Level III.

Level III

Evaluate the feasibility of a publicly-owned and privately-operated transfer station where the District would own the property.

The following table summarizes the program details.

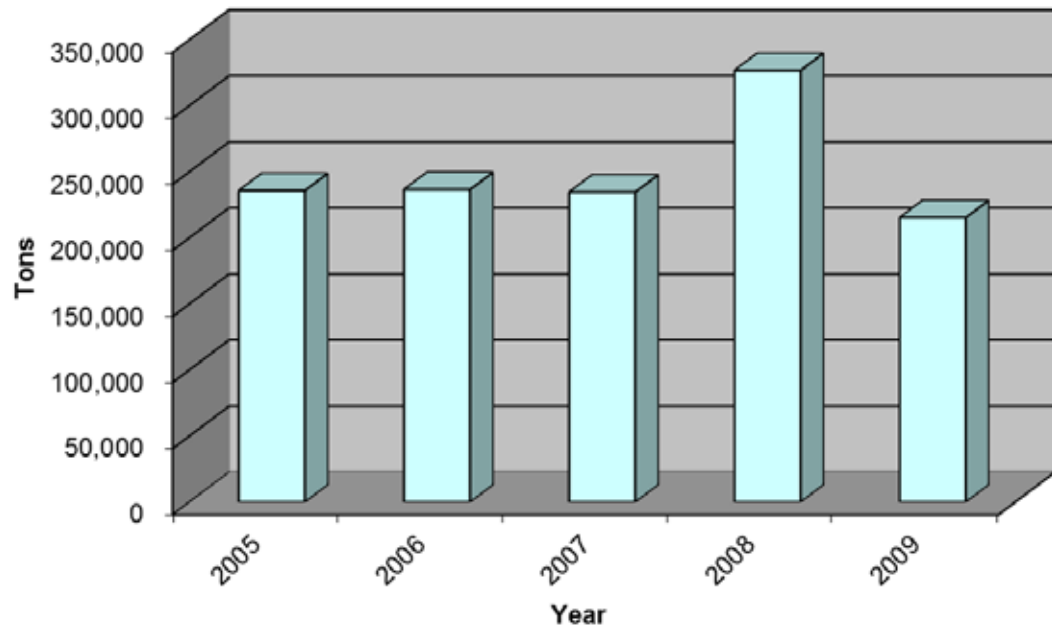
Program Summary	
Description	Details
Program Implementation	Ongoing
EPA Program Number from ADR	6139, 6141, 6166, 6164, 6168, 6194, 6193, 6165, 6167
Entity Responsible for Maintaining Program	Private Sector
Service Area for Program	District
Materials Reduced/Recycled	N/A
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	Included in District Administration
Program Operator/Contractor	Private Sector

Section III on Table III-5 contains the most up to date list of recycling facilities, brokers, processors, haulers and buyback facilities used by District generators in the reference year.

G. Total Waste Generation: Historical Trends Plus Waste Reduction

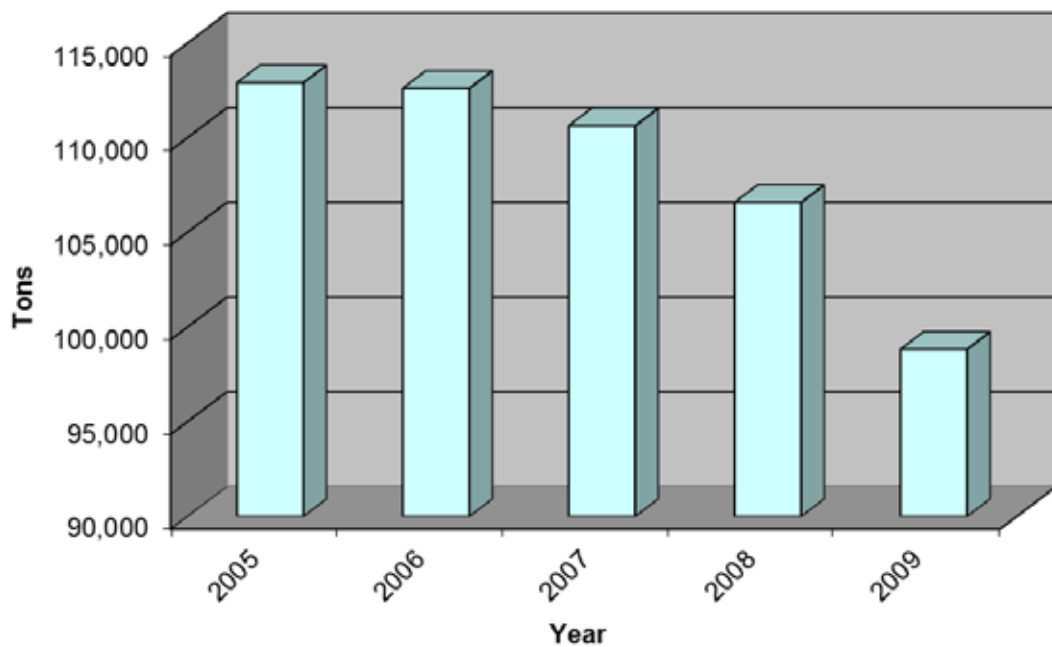
Table IV-7, "Total Waste Generation Based Upon Disposal Plus Waste Reduction", presents total waste generation based upon disposal plus waste reduction. In 2009, the District generated 215,258 tons of solid waste based on landfill disposal, yard waste composting and recycling. Historically, the District generated a high of approximately 326,668 tons in 2008 and a low of 215,258 in 2009. Waste generation has fluctuated over the past five years as depicted by the following graph.

District Historical Total Generation



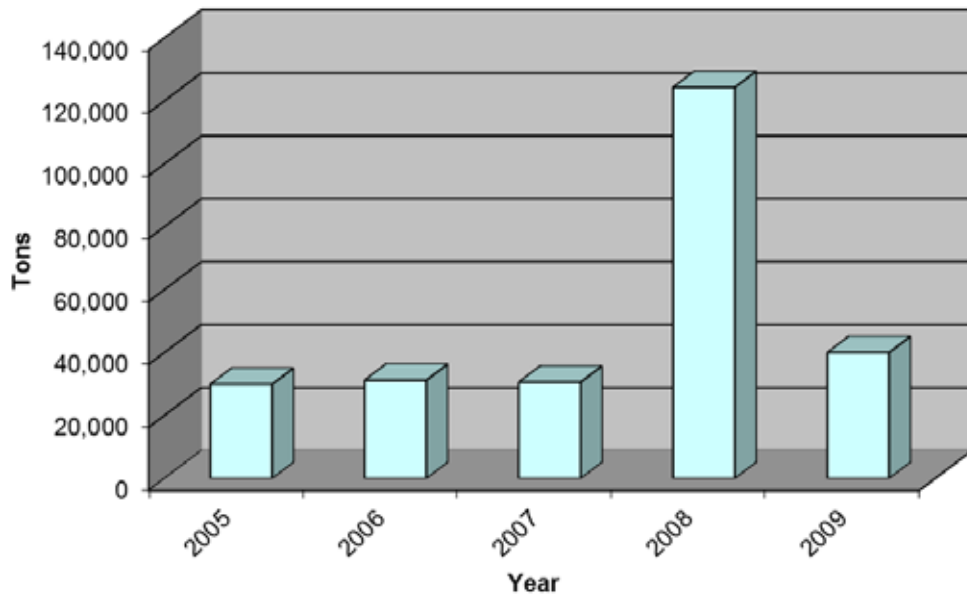
Landfilled waste tonnage has been declining from 2005-2009. Landfilled waste has ranged from a high of 112,907 in 2005 to a low of 98,824 in 2009. The following graph depicts the historical landfill totals from 2005-2009.

District Historical Landfill Disposal



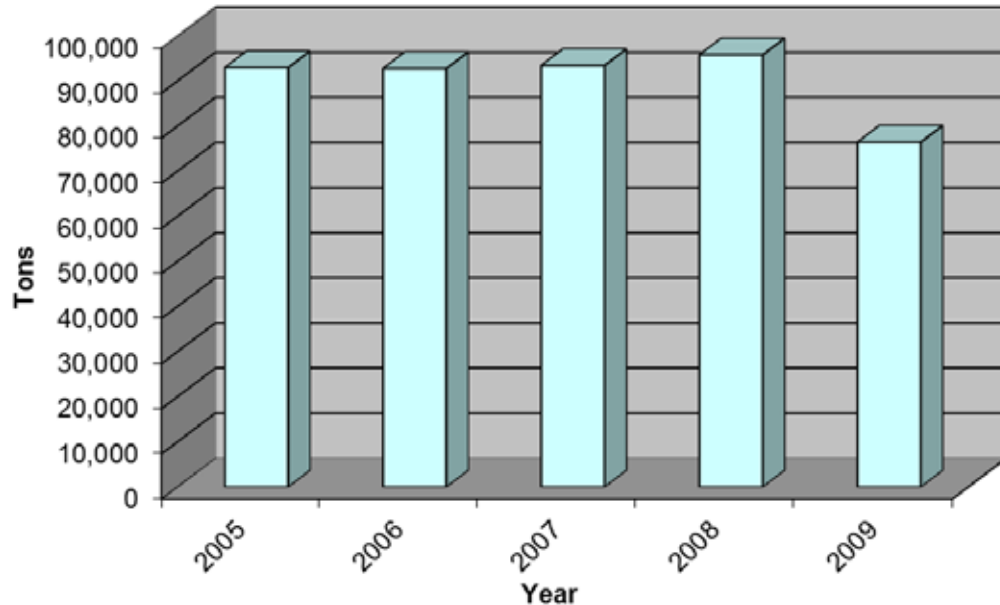
Yard waste remained steady from 2005 – 2007 then dramatically increased in 2008 as a direct result of storm debris primarily and from improved data collection then settled back to more normal annual volumes in 2009. Yard waste has ranged from a low in 2005 of 29,942 tons to a high of 124,323 in 2008. The high in 2008 was partly from Hurricane Ike and is not representative of the District’s historic average. The following graph depicts the historical yard waste totals from 2005 – 2009.

District Historical Yard Waste Management



Waste reduction has remained steady from 2005 – 2008 then decreased in 2009. Waste reduction has ranged from a low in 2009 of 76,430 tons to a high of 95,768 in 2008. The following graph depicts the historical waste reduction totals from 2005-2009.

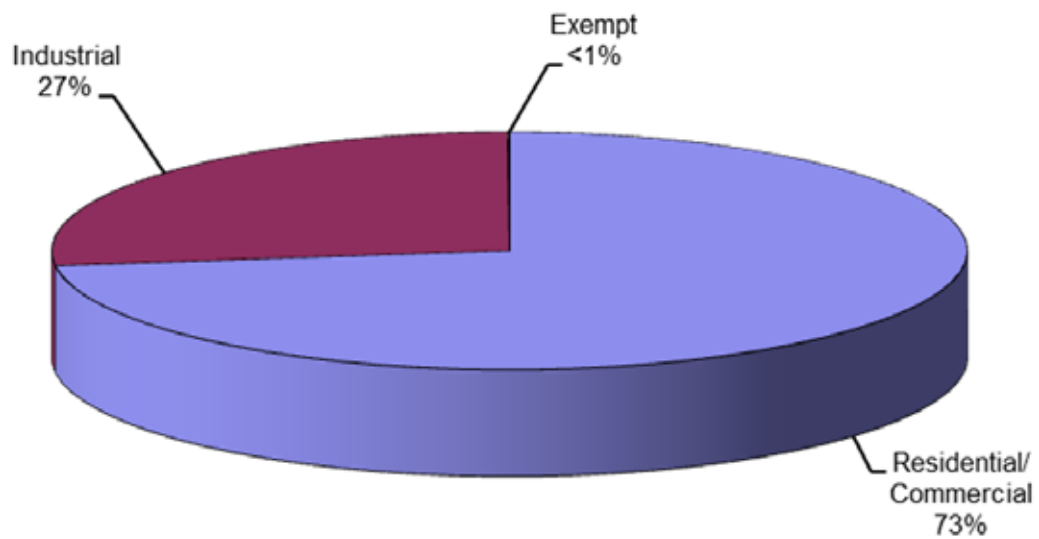
District Historical Waste Reduction



H. Reconciliation of Waste Generation (based on reported recycling and disposal)

Table IV-8, “Adjusted Reference Year Total Waste Generation for the District”, presents adjusted reference year total waste generation for the District. The District is using actual disposal and recycling to calculate waste generation. For 2009, the District generated 215,258 tons. This includes recycling and waste disposal from all sectors. The residential/commercial sector generated 157,009 tons or 6.16 pounds per person per day which includes recycling and yard waste composting. Industrial waste was projected at 58,114 tons or approximately 2.28 pounds per person per day. Exempt waste for 2009 was 135 tons or .01 pounds per person per day. The following figure depicts the reference year waste generation by sector.

2009 Adjusted Waste Generation by Sector



The District believes utilizing actual disposal and recycling tonnage to calculate waste generation provides the most accurate method of projecting waste generation throughout the planning period. The national average projections are 1,358 tons greater than calculated waste generation.

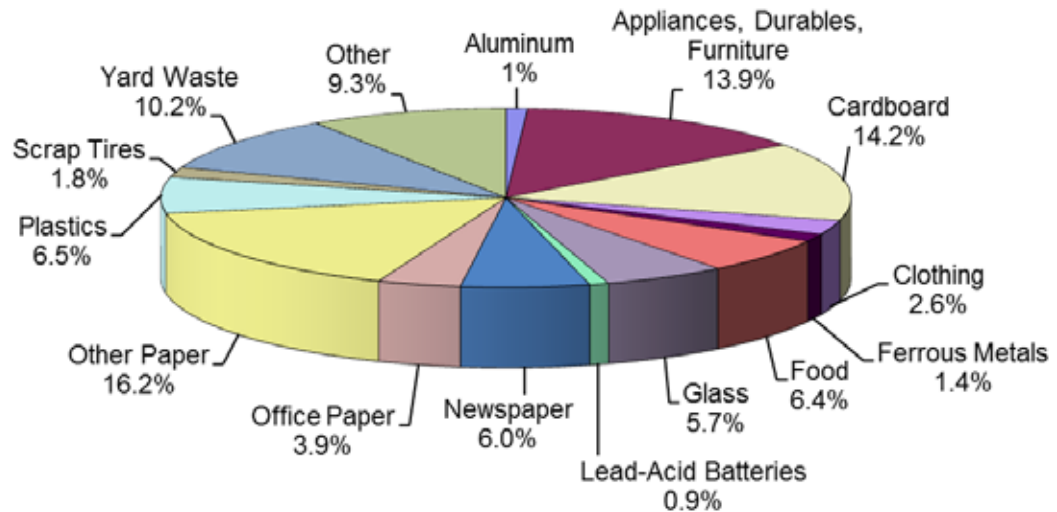
The actual generation rate for residential/commercial waste in 2009 was approximately 1.32 pounds per person higher than the national average of 4.84. Historical waste generation for the residential/commercial sector supports using the higher generation rate per person and more accurately reflects the generation conditions in the District.

Finally, waste reported at the landfill/transfer station could be labeled incorrectly when it goes across the scales. However, the total results are likely to be more accurate using the reported disposal and recycling data than national averages. For these reasons, the District will not use the national averages for future projections in this *Plan Update*.

I. Waste Composition

The District estimated the residential/commercial waste stream composition in Table IV-9, "Estimated Residential/Commercial Waste Stream Composition for the District for the Reference Year", using the national averages for 2000 in Appendix KK of the Ohio EPA Plan Format. The largest component of the residential/commercial waste stream is projected to be other paper at 16.2% (25,435 tons) followed by cardboard at 14.2% of the waste stream and appliances, durables and furniture at 13.9%. The following figure depicts the residential/commercial waste composition for the reference year.

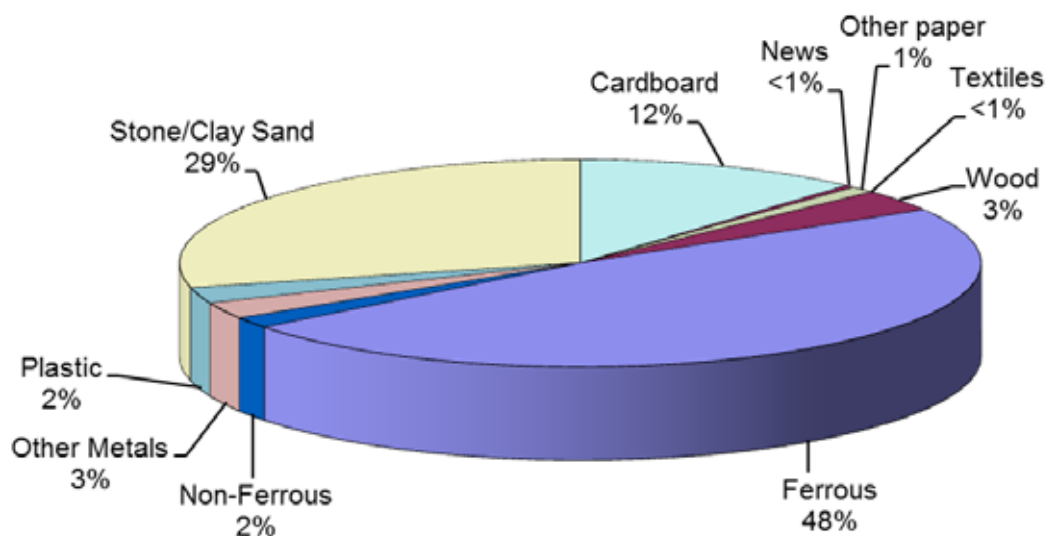
2009 Residential/Commercial Waste Composition



The industrial waste composition included in Table IV-10, “Estimated Industrial Waste Composition for the Reference Year in the District”, was estimated based on the amount of industrial waste disposed and recycled. 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 industrial waste stream was ferrous metals. Food waste and stone/clay/sand were the next two largest components of the industrial waste stream. The following figure depicts the industrial waste composition for the reference year.

2009 Industrial Waste Composition



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

County/Community Name	2009 Population		2009 Generation Rate (lbs/person/day)	2009 District Residential/Commercial Generation (Tons)
	Before Adjustment	After Adjustment		
Clark County	139,671	139,671	4.84	123,329
Clifton		(48)		
Total	139,671	139,623		

Source(s) of information:

Population- Ohio Department of Development Office of Strategic Research
2009 Population Estimates for Cities, Villages, and Townships

Example calculation:

$$\text{Residential/Commercial Waste Generation (tons)} = \frac{\text{Population} \times \text{National Generation Rate} \times 365 \text{ days/year}}{2,000 \text{ pounds/ton}}$$

$$123,329 = \frac{139,623 \times 4.84 \times 365}{2,000}$$

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

Standard Industrial Classification Category (SIC)	Survey Respondents			Amounts Based Upon Secondary Data (Unreported)			Total Industrial Waste Generated (Tons)		
	# 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	6	1,269	19,267	15.18	2	121	13.92	1,684	20,951
22	1	35	31	0.89	0	0	9.99	0	31
23	2	72	611	8.49	0	0	2.80	0	611
24	0	0	0	0.00	2	150	51.62	7,743	7,743
25	1	16	36	2.28	1	19	1.79	34	70
26	3	132	2,859	21.66	3	70	17.50	1,225	4,084
27	5	190	770	4.05	1	15	6.70	101	871
28	2	80	104	1.30	1	15	12.43	186	291
29	1	20	10,658	532.92	0	0	7.33	0	10,658
30	6	878	1,348	1.54	6	315	7.29	2,296	3,644
31	0	0	0	0.00	1	60	3.41	205	205
32	2	57	21	0.37	2	90	10.55	950	971
33	8	247	4,769	19.31	4	111	36.93	4,099	8,868
34	20	603	13,087	21.70	11	394	11.16	4,397	17,484
35	18	732	2,641	3.61	15	721	5.72	4,124	6,765
36	2	19	17	0.88	3	95	2.98	283	300
37	6	1,272	8,415	6.62	3	290	3.21	931	9,346
38	1	15	9	0.59	2	35	1.74	61	70
39	0	0	0	0.00	2	41	4.62	189	189
Total	84	5,637	64,644	11.47	59	2,542	N/A	28,508	93,152

Source(s) of information:

Survey respondents are from the Industrial Waste Survey
 Unreported number of industries and number of employees is from the non-respondent industrial waste survey
 Unreported generation rate is from the District Solid Waste Management Plan Format (1994) Table JJ-2

Generation Rate (Survey Respondents) = tons of waste generated / number of employees
 Waste Generated (Unreported) = number of employees x generation rate
 Total Waste Generated = waste generated (survey respondents) + waste generated (unreported)

Example calculations (SIC 20):

$$\text{Survey Respondents} \quad 15.18 = \frac{19,267}{1,269} \quad \text{Generation Rate} = \frac{\text{Waste Generated}}{\text{\# of Employees}}$$

$$\text{Non-Respondents} \quad 1,684 = 121 \times 13.92 \quad \text{Tons of Waste Generated} = \text{\# of Employees} \times \text{Generation Rate (T/employee)}$$

$$20,951 = 19,267 + 1,684 \quad \text{Total Industrial Waste Generated} = \text{Total Reported} + \text{Total Unreported}$$

**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)
C&D Waste; Asbestos	0.01	135
Total	0.01	135

Source(s) of information:

2009 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:

$$0.01 = \frac{135 \times 2,000}{139,623 \times 365}$$

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

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	4.84	123,329
Industrial	3.66	93,152
Exempt	0.01	135
Total Waste Generation	8.50	216,616

Source(s) of information:

Residential/Commercial- Table IV-1

Exempt -Table IV-3

Industrial- Tons/yr-Table IV-2

Industrial generation rate calculated using the following equation:

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

Example calculation:

$$3.66 = \frac{93,152 \times 2,000}{139,623 \times 365}$$

**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		2009 Net Waste Reduced
				2009 Total Waste Received	2009 Residual Landfilled	
None	0	Appliances	227	Incineration*	Ash	Net Incineration*
		Batteries	1	0	0	0
		Food	0	Composting	Residuals	Net Compost
		Glass	331	40,004	0	40,004
		HHW	8	Resource Recovery	Ash	Net Resource
		Ferrous	2,130	0	0	0
		Non-Ferrous	652			
		Cardboard	9,664			
		Paper	2,275			
		Plastic	783			
		Scrap Tires	2,819			
		Textiles	28			
		Used Oil	2			
		Wood	939			
		Commingled Recyclables	344			
		Electronics	140			
		Books	11			
Subtotal	0		20,354	40,004	0	40,004
Grand Total						60,358

Source(s) of information:
 2009 District Annual Report and Residential/Commercial Surveys
 2009 Ohio EPA Scrap Tire and Compost Data (double counting eliminated)

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

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Residual Landfilled, Resource Recovery		
				Total Waste Received	Residual Landfilled	Net Waste Processed
None	0	Cardboard	4,925	Incineration*	Ash	Net Incineration
		All Other Paper	594	0	0	0
		Food	13,476	Resource	Ash	Net Resource
		Ferrous	20,457	0	0	0
		Non-Ferrous	738	Composting	Residuals	Net Composted
		Other Metal	1,093			
		Plastic	1,045	0	0	0
		Textiles	2			
		Wood	1,462			
		Clay/Sand/Stone	12,284			
Subtotal	0		56,076	0	0	0
Grand Total						56,076

Source(s) of information:
2009 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
	Source Reduction & Recycling	Yard Waste Composting	Yard Waste Land Application	Incineration Waste Reduction	MSW Composting	Landfill Disposal	
2005	92,934	29,942	0	0	0	112,907	235,783
2006	92,735	31,223	0	0	0	112,609	236,568
2007	93,407	30,609	0	0	0	110,631	234,646
2008	95,768	124,323	0	0	0	106,577	326,668
2009	76,430	40,004	0	0	0	98,824	215,258

Source(s) of information:
District Annual Reports and Ohio EPA Facility Data Reports.

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

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/ Commercial	6.16	157,009
Industrial	2.28	58,114
Exempt	0.01	135
Total Waste Generation	8.45	215,258

Source(s) of information:

Exempt -Table IV-3

Residential/Commercial and Industrial waste generation is calculated as waste reported by the landfills and transfer stations (Table III-1, III-3) + Recycling (Table IV-5 or Table IV-6)

Example calculation:

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

$$8.45 = \frac{215,258 \times 2,000}{139,623 \times 365}$$

**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
Aluminum	1.0%	1,570
Appliances, Durables, Furniture	13.9%	21,824
Cardboard	14.2%	22,295
Clothing	2.6%	4,082
Ferrous Metals	1.4%	2,198
Food	6.4%	10,049
Glass	5.7%	8,950
Lead-Acid Batteries	0.9%	1,413
Newspaper	6.0%	9,421
Office Paper	3.9%	6,123
Other Paper	16.2%	25,435
Plastics	6.5%	10,206
Scrap Tires	1.8%	2,826
Yard Waste	10.2%	16,015
Other	9.3%	14,602
Totals	100.0%	157,009

Source(s) of information:

Percentage of the waste stream from national averages in Appendix KK of District Solid Waste Management Plan Format (1996)

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

Waste Stream Type	TPY	Waste Stream Type	TPY	Waste Stream Type	TPY
Cardboard	4,428	Wood	1,314	Plastic	940
News	141	Ferrous	18,391	Stone/Clay Sand	11,043
Other paper	393	Non-Ferrous	663	Food	12,115
Textiles	2	Other Metals	982	Other	7,702
Subtotal	4,964	Subtotal	21,350	Subtotal	31,800
Grand Total					
					58,114

Source(s) of information:

District Industrial Waste Survey for calendar year 2009 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:

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

$$\text{Adjustment Factor} = 0.90 = 58,114 / 64,644$$

$$\text{Type of Industrial Waste Generated (tons)} = \text{Type of Industrial Waste Generated (Table IV-6 -Survey)} \times \text{Adjustment Factor}$$

$$4,428 \text{ (tons of cardboard)} = 4,925 \text{ (tons of cardboard from Appendix F)} * 0.90$$

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

A. Planning Period

The District has chosen a planning period that coincides with the projected year the plan will be approved by Ohio EPA. This *Plan Update* is scheduled to be completed, ratified and approved by Ohio EPA in May of 2013. Based on this information, the planning period for the *Plan Update* will be January 1, 2013 – December 31, 2027.

B. Population Projections

The District's population projections are presented in Table V-1, "District Population Projections". The population estimate from Section IV for the 2009 reference year was 139,671. The following adjustments were made to the total listed above:

- The Village of Clifton had less than 50% of the population living inside Clark County and more than 50% living inside Greene County. The population of this community in Clark County (48) was subtracted from the District population total.

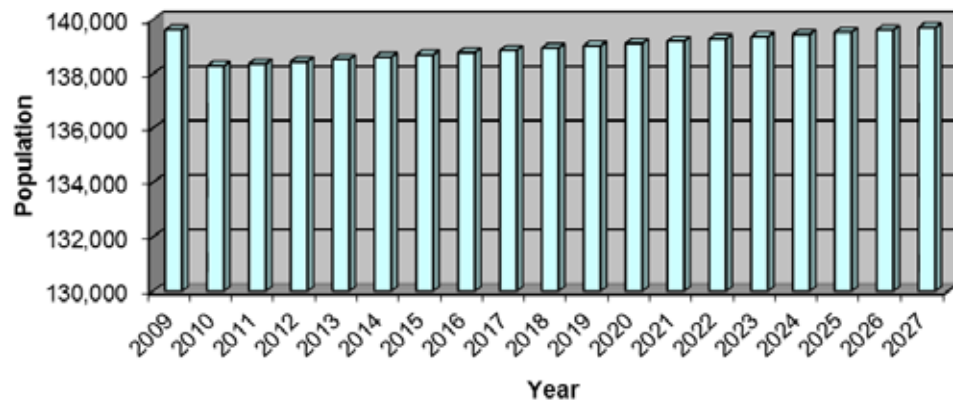
The adjusted population estimate for the 2009 reference year was 139,623. The District will project future population data based on the 2010 Census data that was available at the time of this *Plan Update*. The 2010 adjusted population was 138,285.

The District anticipates population will increase, on average, 0.06% annually from 2009 through 2027, the final year of the planning period. The population projections for future years were estimated using growth rates provided by the Ohio Department of Development Office of Strategic Research from the years 2010 – 2030 for the District and Greene County that contain a portion of the Village of Clifton.

The District is projected to start the planning period in 2013 with a population of 138,534 and end in 2027 with a total population of 139,701. This is a population increase of 0.84% for the planning period (2013 – 2027) or 0.056% annually.

The following graph depicts the estimated total District population throughout the planning period.

District Population Estimate (2009 – 2027)



C. Waste Generation Projections

1. Residential/Commercial Sector

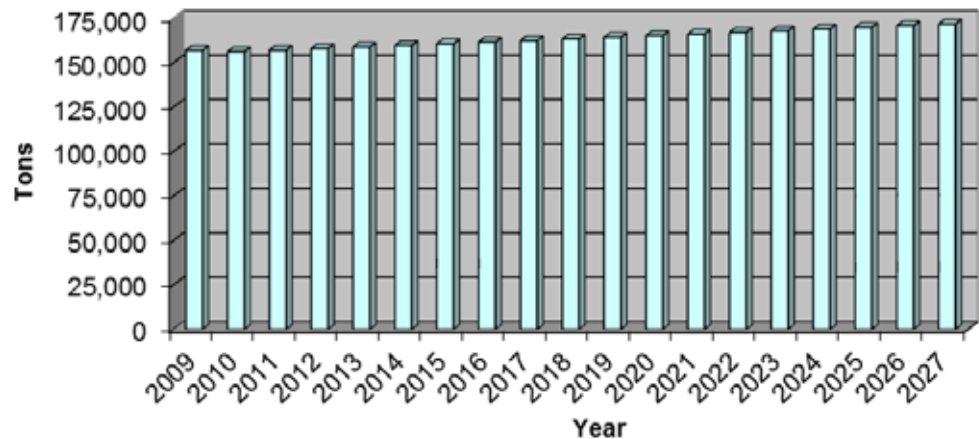
The District’s residential/commercial waste generation projections are presented in Table V-2, “District Residential/Commercial Waste Generation (TPY)”. Waste generation is presented for the 2009 reference year and each subsequent year through 2027. The District adjusted the per capita generation rates in accordance with Ohio EPA recommendations issued on September 4, 2002 for years 2010 – 2025. For 2009, the District calculated the per capita generation rate based on Ohio EPA’s Facility Data Reports for disposal and from the District’s 2009 Annual District Report for recycling. The following data was used for this calculation:

2009 Disposal Tonnage:	96,651
2009 Recycling Tonnage:	60,358
2009 Total Generation:	157,009
2009 Residential/Commercial Per Capita Generation Rate:	6.16

The total residential/commercial waste generation estimate for 2009 was 157,009 tons. Residential/commercial waste generation decreased in 2010 from a loss of population from using the latest census data. Waste generation is projected to increase throughout the planning period from 2013 – 2027. Beginning in 2013, the first year of the planning period, residential/commercial waste is projected to be 158,923 tons. This is expected to increase to 171,852 tons in 2027, a 7.5% increase throughout the planning

period. The following graph depicts the estimated residential/commercial waste generation throughout the planning period.

**District Residential/Commercial Waste Generation
(2009 – 2027)**



2. **Industrial Sector**

The District's industrial waste generation projections are presented in Table V-3, "Projected Industrial Waste Generation". Industrial waste generation is presented by Standard Industrial Classification (SIC) code for the 2009 reference year and each year of the planning period through 2027. A description of each SIC code and the expected employment change throughout the planning period is presented in Table V-3A.

The results of the industrial waste generation survey are presented in Table IV-2; however, the adjusted industrial waste generation figure in Table IV-8 is used for future projections. For 2009, the industrial waste generated for each SIC code is calculated based on the survey results and the total industrial waste generation. See Table V-3 for an example calculation.

Industrial waste generation is projected for SIC codes 20 and 22-39. The classifications are summarized in Table V-3A, "Standard Industrial Classifications". Table V-3 presents the average annual change in generation for each SIC code. Industrial waste generation projections are based on industrial employment projections provided by the Ohio Department of Job and Family Services Job Outlook for the period 2006 – 2016 for the Southwest Central Economic Development Region (EDR) which included Clark County. According to the Southwest Central EDR,

manufacturing employment is projected to decrease 23.1% during this period (2006 – 2016).

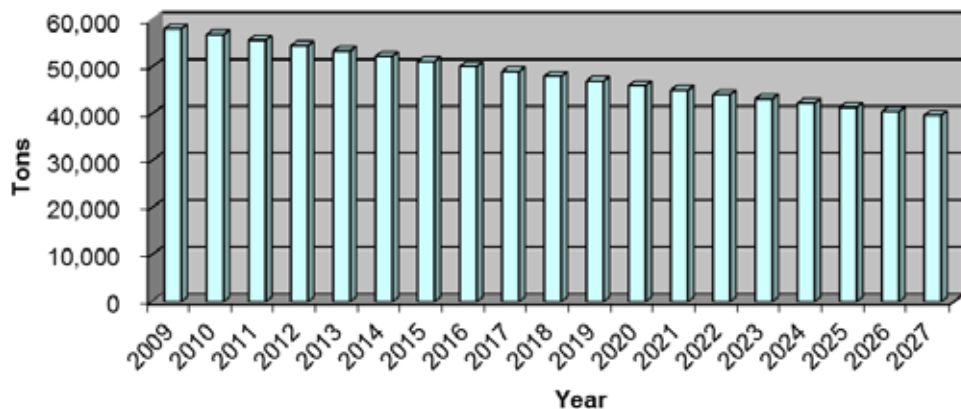
Based on the Southwest Central EDR estimated decrease in industrial employment, the District is projecting an annual decrease of 2.1% for each year in the planning period.

The District projects industrial waste will decrease from 58,114 tons in the reference year to 39,662 tons in 2027, the final year of the planning period.

The District did not classify materials from train boxcars, metals from demolition activities and ferrous metals resulting from salvage operations conducted by licensed motor vehicle salvage dealers. The ferrous metals that were included in the industrial waste stream were recorded from industrial survey results.

The following graph depicts the estimated industrial waste generation throughout the planning period.

District Industrial Waste Generation (2009 – 2027)



3. Total Waste Generation

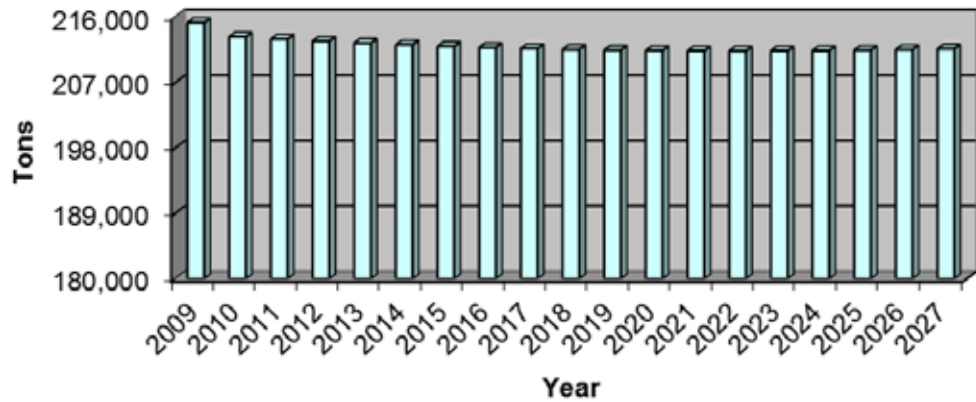
Total waste generation projections for the District during the planning period are presented in Table V-4, “Total Waste Generation for the District during the Planning Period (in TPY)”. The total waste generation estimate for the 2009 reference year was 215,258 tons. This includes residential/commercial waste (157,009 tons), industrial waste (58,114 tons), and exempt waste (135 tons).

Exempt waste is projected to increase .06% annually, the same as the average population increase in Table V-1. The generation rate

in pounds per person per day for the reference year was 8.45 and 8.30 in 2027, the final year of the planning period. Total waste generation is projected to decrease 793 tons over the fifteen year planning period (2013 – 2027) from 212,442 to 211,649 tons in 2027, a 0.37% decrease in tonnage. This change is primarily from the decline in projected industrial waste generation which offsets the increase in residential/commercial waste generation.

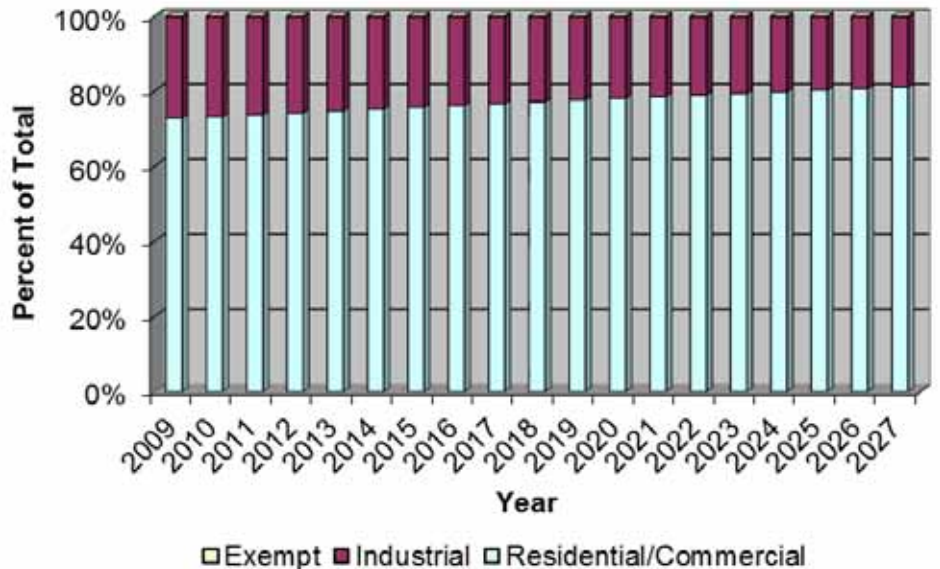
The following graph depicts the total waste generation from the reference year (2009) to the final year in the planning period (2027).

Total District Waste Generation Projections (2009 – 2027)



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

District Total Waste Generation (2009 – 2027)



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 an industrial facility could greatly impact the industrial, as well as residential/commercial projections. Current projections indicate the District's residential/commercial and industrial solid waste stream will remain stable over the fifteen-year planning period.

The District's periodic survey of industries should alert the District to any major changes in the industrial sector. The District will report any significant changes in waste stream composition in the Annual Report.

E. 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*. 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** Annual reporting of plan implementation.
- Goal #7** Prepare a market development strategy (optional).

The following table summarizes all of 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
Clark County Recycling Center	CC-01		✓					
Curbside Recycling	CC-02	✓	✓					
Franchise Waste Collection Program	CC-03		✓					
Drop-Off Recycling	CC-04	✓	✓					
Yard Waste Management	CC-05		✓					
Household Hazardous Waste Collection	CC-06		✓			✓		
Electronics Recycling	CC-07		✓			✓		
Scrap Tire Collection	CC-08		✓			✓		
Government Office Recycling	CC-09		✓					
Business Paper Recycling	CC-10		✓					
Education and Awareness	CC-11			✓	✓			
Business Waste Reduction Assistance (BWRAP)	CC-12			✓	✓			
Litter Prevention/Clean-Up Programs	CC-13							
Health Department Funding	CC-14							
Legal and Consulting	CC-15							
Other Facilities	CC-16							
Curbside Recycling Grants	CC-17	✓	✓					
Food Waste Management	CC-18		✓					
Disaster Debris Management	CC-19							
Number of Strategies Per Goal		3	12	2	2	3	0	0

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District's residential/commercial waste reduction strategies are presented in Table V-5, "Residential/Commercial Waste Reduction Strategies". Residential curbside programs are projected to increase on an escalating basis starting in 2015 when the new incentive grant rolls out. For the purposes of this planning document, from 2010 – 2014 the curbside programs are projected to increase by .06% each year (the same rate as population increase), from 2015 – 2018 by 5% each year and from 2019 – 2027 by 10% each year. This is based on the implementation of the District's new Curbside Recycling Grant. This new program is intended to increase the amount of curbside recycling that occurs in the District dramatically. The District's curbside recycling poundage per person per year is 7 to 8 times lower than the average rate of curbside recycling generation as compared to other Districts (See analysis in Curbside Recycling Grant program). Assuming several townships or the City of Springfield apply for the new Curbside Recycling Grant, the curbside recycling projections presented in this *Plan Update* could even be too low.

All other programs are projected to increase .06%, the same rate as the increase in population.

The District plans to increase residential/commercial recycling from 60,358 tons in 2009 to 62,505 tons by 2027.

RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

The District's primary strategy for this *Plan Update* is to continue with the successful core programs detailed in Section IV with a few exceptions and modifications. The District is committed to implementing these programs and to continue their success throughout the planning period.

The following section details the specific initiatives by program that will be implemented during the planning period. In addition, the District evaluated each of the programs in Section IV for their strengths and challenges. The results of this analysis assisted the District with the improvements of the programs contained in this section.

Unless a program is new or a change is being initiated, this section does not provide the details of how each program operates, as that information is contained in Section IV.

Finally, this section contains three new initiatives, one to provide incentives to communities to provide curbside recycling, one to address food waste management, and one designed to fund disaster debris management.

1. CC-1 – Clark County Specialty Recycling Center (State Plan Goal #2)

This program will continue (see description in Section IV).

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

This program will continue (see description in Section IV).

The District will continue to work with political subdivisions in the county to promote and support curbside recycling. The District's main objective with this program is to increase the availability of curbside recycling in the county as well as to improve participation. The District has developed a new Curbside Recycling Grant program that offers significant incentives for political subdivisions to accomplish the above objective. This program is explained in more detail later in this section.

The District's overall goal for the planning period is to maintain all existing curbside programs, enhance or upgrade them if possible, add new programs and increase participation. The following strategies and initiatives may be conducted throughout the planning period to accomplish this goal.

Strategy 1

For any planned or existing curbside recycling program that ceases to operate during the planning period, the District will implement the following initiatives:

Initiative 1-1

Meet with the operator of the curbside program to determine cause of program elimination.

Implementation Schedule: As Needed

Initiative 1-2

Offer any assistance permitted under this *Plan Update* to re-start the program.

Implementation Schedule: As Needed

Strategy 2

The District recognizes that an effort to promote curbside recycling among residents can only be successful when sound and affordable curbside recycling is available. When haulers provide the service inconsistently or for an additional charge to the customer, it is a greater challenge. Therefore, in order to support local governments to take the necessary steps to contract for curbside waste and recycling during this planning period, an important strategy will be for the District to stimulate demand among residents for contracted collection services.

This strategy may involve the following initiatives:

Initiative 2-1

The District conducted a series of meetings during the development of this *Plan Update* with solid waste haulers on the curbside recycling infrastructure and issues preventing it from expanding in the District. The results of the meetings helped direct the District in developing strategies and initiatives for this *Plan Update* as well as opened up new dialogue

with the haulers. As a result of the meetings, the District wanted to continue discussions into the new planning period not only with the haulers but other stakeholders.

The District will conduct stakeholder meetings with community leadership including township trustees and public service personnel, residents, and haulers to understand the issues preventing contracting of curbside services and to determine possible solutions.

Implementation Schedule: 2013 – 2017

Initiative 2-2

In an effort to stimulate demand for non-subscription curbside recycling, the District may conduct awareness campaigns to targeted communities to communicate the value of contracting for waste and recyclables collection. This effort may include distribution of educational materials, targeted media promotions, billboards, bus signs and/or social media.

The purpose behind this initiative is to convince residents directly that their communities should be contracting for waste and recycling services. The premise is for the District to convince a groundswell of residents to demand contracted curbside waste and recycling services from their elected officials. This initiative will be combined with the District's continual process of working with elected officials and community managers to implement contracted curbside recycling and trash programs. This tandem effort is projected to be more successful than just working with community leaders.

The District will target communities that have the best chance of success including the following:

- Springfield Township
- German Township
- Moorefield Township
- City of Springfield
- Mad River Township
- Village of Enon

Implementation Schedule: 2013 – 2017

Initiative 2-3

In order to improve economies of scale and support regional cooperation, the District may evaluate the options of conducting regional cooperative

contracts for multiple smaller villages and cities for purchasing curbside waste and recycling services.

Depending on the success of Initiative 2-2, the District may have the opportunity to assist the smaller cities and villages and or multiple townships with implementing a cooperative contract. This assistance could include bid specification development, bidder response review, contract development, program promotion and or program development.

Implementation Schedule: As Needed

Initiative 2-4

The District will annually promote its new Curbside Recycling Grant Program to all communities which is summarized later in this section. This may be done through presentations at the Township Association Meetings, City of Village council meetings, workshops, direct presentations, or through direct communications with targeted communities. These targeted communities may include the following:

- Springfield Township
- German Township
- Moorefield Township
- City of Springfield
- Mad River Township
- Village of Enon

Implementation Schedule: 2013-2017

Initiative 2-5

The District will conduct stakeholder meetings with community leadership including township trustees and public service personnel, residents, and haulers to understand the issues preventing contracting of curbside services and to determine possible solutions.

Implementation Schedule: 2013-2017

Initiative 2-6

The District may survey residents from targeted political subdivisions on their willingness to support the community in contracting with a single waste hauler to provide non-subscription curbside waste and recycling services with bulky item pick-up.

This initiative may be used to complement other initiatives in this strategy if deemed appropriate by the District and/or the targeted community.

Implementation Schedule: As Needed

Initiative 2-7

The District may work with communities to develop suitable bid specifications and contract documents for contracting for non-subscription curbside waste and recycling services.

Implementation Schedule: As Needed

Initiative 2-8

The District may create a cost of service score board by community to educate residents on how their services compare to other communities inside and outside the District. The score board would include what residents pay per household per month for curbside solid waste services. The District may present the score board via its website, newspaper ads or other media mechanisms.

Implementation Schedule: 2013-2017

3. CC-3 – Contract/Franchise Waste Collection Program
(State Plan Goals #1 and #2)

This program was implemented in the previous Plan Update. The results of the program indicated that further work was needed to facilitate contracting of solid waste services in the District. This *Plan Update* includes numerous strategies and initiatives and a new grant program all designed to stimulate demand and support the creation of contracted curbside waste, recycling and bulky item programs in the District. Therefore, this program has been discontinued in lieu of an alternate program with the same objectives.

4. CC-4 – Drop-off Recycling Program
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV).

Program Goal

The District's long term goal is to transition to non-subscription curbside waste and recycling collection programs for most single family residential homes in the County. The District recognizes that curbside recycling may

not be practical in the most rural of areas. The District's new Curbside Recycling Grant Program is designed to create incentives for political subdivisions to develop non-subscription curbside recycling over time, thus reducing the need for some recycling drop-off stations except in the most rural parts of the county.

Program Strategies

The current District operated drop-off program has reached its operational capacity as designed and needs to be operated more efficiently in order to grow. The Policy Committee (PC) and Technical Advisory Council (TAC) have decided that the current system should be expanded and operated as efficiently as possible. A preliminary analysis of the current operation was conducted in 2011 during the development of this *Plan Update*. This analysis indicated that a compaction system of collection would be the most efficient while allowing for growth in the program. The Policy Committee determined that a more detailed analysis of operational costs was determined to be needed before any investments could be made in this program. Based on this, the following strategies and initiatives will be conducted in the planning period.

Strategy 1

The District will consider the options to convert the current drop-off program, which utilizes roll off boxes and a truck operated by District staff, to compaction and expand the sites to underserved areas of the county. The District foresees the new program with the following attributes:

- ✓ Four to seven new sites strategically located throughout the District based on need and/or lack of curbside recycling,
- ✓ Dual stream recycling system,
- ✓ Fiber materials processed by the District for revenue,
- ✓ Compaction trucks used for collection,
- ✓ Replace roll-off containers for commingled materials with dumpster style containers, and
- ✓ Efficient routing and servicing of sites.

Initiative 1-1

The District will evaluate the cost of operating the current drop-off program including the cost of capital, operational costs, labor, maintenance and other costs as well as revenue. The analysis will also evaluate the current drop off locations to determine their performance. Finally, the District will also evaluate potential new sites.

Implementation Schedule: 2013

Initiative 1-2

The District will evaluate the cost of operating a compaction system with expanded sites including the cost of capital, operational costs, labor, maintenance and other costs as well as revenue.

Implementation Schedule: 2013

Initiative 1-3

The District will evaluate private sector costs of operating a compaction collection system with expanded sites and will compare to the cost of a District operation in order to determine the best approach.

Implementation Schedule: 2013

Based on the results of Initiatives 1-1, 1-2 and 1-3, the District may make adjustments to the drop-off program. These adjustments could include capital investments which may or may not be funded through grants. The District will make a final decision as to how any capital investments will be managed including the option of raising generation fees, initiating a County bond, applying for a commercial loan and/or utilizing the un-encumbered fund balance of the District. Because the main economic analysis of this program will be conducted while implementing this *Plan Update*, future budgeting was not projected for additional capital and operational costs. The Board of Directors reserves the right to adjust budgets as needed to implement any changes for this program in the planning period.

The results of Initiatives 1-1, 1-2 and 1-3 may also indicate that expanding the drop-offs and/or converting to another collection system such as compaction may not be feasible, affordable or desired. In addition, the implementation of any new curbside recycling programs may also affect the need to expand or change the drop-off program. Thus, the District cannot plan for certainty that any major changes in this program will result from these initiatives.

Initiative 1-4

Finally, the District, before implementing, enhancing or changing any recycling drop-off program, will first make sure that the initiative is cost effective and sustainable.

Implementation Schedule: 2013

5. CC-5 – Yard Waste Management Program
(State Plan Goal #2)

This program will continue; see Section IV for program details.

6. CC-6 – Household Hazardous Waste (HHW) Collection Program
(State Plan Goals #2 and #5)

This program will continue (see description in Section IV). To address the challenges identified in Section IV, the District will conduct the following strategies:

Strategy 1

Transition the current bi-annual HHW collection events to a permanent collection system with user fees.

Initiative 1-1

Evaluate the costs of providing weekly, monthly, or quarterly collection at the Specialty Recycling Center and charge residents a price per pound for proper management. Currently, the District only collects latex paint and lead acid batteries at the Specialty Recycling Center. The evaluation planned for this initiative will look at providing full service HHW collection at the Center for the following materials:

- **Cleaners** - Corrosives, Bleach, Acids and Caustics
- **Flammables** - Paints and Stains, Aerosol Cans, Turpentine, Paint Thinner, Adhesives/Caulks, Used Oil Filters, Solvents, Hydraulic Fluid, Acetylene Tanks, Household Cleaners, Lighter Fluid, Butane Cylinders, Road Flares, Roofing Tar
- **Reactive Materials** - Cyanide Poisons, Fertilizers, Pool Chlorine, Pool Chemicals, Oxidizers
- **Toxics** - Rat Poison, Antifreeze, Weed Killers, Insect Killers, Mercury & Mercury Devices
- **Other** - Smoke Detectors, Oxygen/Other Gas Cylinders, Asbestos, Fire Extinguishers Batteries (Rechargeable)

Implementation Schedule: 2014

Based on the above evaluation, the District may eliminate the one-day collection format and transition to collecting HHW at the Recycling Center on a more permanent basis with user fees to off-set program costs. Any changes to the HHW collection program would occur in late 2014 or early 2015.

The District has projected in the budget section (VIII) that user fees will be collected starting in 2015. If the evaluation above determines that a user fee system is not feasible or desirable, then the projected additional revenue will not be collected.

7. CC-7 – Electronics Recycling Program
(State Plan Goals #2 and #5)

This program will continue (see description in Section IV).

8. CC-8 – Scrap Tire Recycling Program
(State Plan Goals #2 and #5)

This program will continue (see description in Section IV).

9. CC-9 – Government Office Paper Recycling
(State Plan Goal #2)

This program will continue (see description in Section IV).

10. CC-10 – Business Paper Recycling
(State Plan Goal #2)

This program will continue (see description in Section IV).

RESIDENTIAL/COMMERCIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

1. CC-11 – Education and Awareness Program
(State Plan Goals #3 and #4)

This program will continue (see description in Section IV).

The District offered a vast array of education, awareness and promotional services to residents and businesses in the reference year (2009). These services included the following:

- Close the Loop Campaign
- Model Communities (discontinued)
- PAYT Promotion (discontinued)

- School Support/Education Grants
- Community Outreach
- Informing the Public

The District reserves the right to conduct different program promotions and initiatives than those listed in Section IV based on current events, programs and policies of the District in the new planning period.

To address the challenges listed in Section IV, the District may conduct the following improvements or changes by initiative:

Close the Loop Campaign

The District is not planning any major improvements or changes to this initiative for the planning period. The District reserves the right to adjust or make changes to this initiative when deemed necessary.

Model Communities

The initiative accomplished its goals and has been discontinued in lieu of new objectives. The District will continue to foster good relations with its townships and villages and will continue working with them on solid waste management programs and improvements.

PAYT Promotion

Until haulers offer recycling at no additional cost when coupled with the volume based collection program, promoting PAYT will continue to be futile. The District does have other strategies and initiatives contained within this *Plan Update* to address contracting of waste and recycling services which include offering incentives for PAYT programming.

School Support/Education Grants

The District may survey teachers to better understand their wants and needs regarding environmental education and how the District can assist in meeting the state curriculum requirements through environmental education.

In addition, the survey may include questions that help the District determine how to best maximize the available time teachers have to gain information on solid waste management issues whether through workshops, webinars, newsletters, conferences or other mechanisms. Otherwise, the program will continue (see description in Section IV).

Community Outreach

The District is not planning any major changes to this initiative for the planning period. The District reserves the right to adjust or make changes to this initiative when deemed necessary.

The District will offer recycling education to any community that takes advantage of the new curbside recycling incentive grant program. The District will work with each community that receives a grant to assist them in the promotion and education of their new or upgraded curbside recycling program. Assistance may include the following:

- Assistance with developing promotional and educational tools to be used by the community for their new or upgraded curbside recycling program.
- Education presentations as community meetings or civic groups.
- Advertising of new program on District web site and/or other media options.
- Other educational or promotional assistance as determined by the District.

Informing the Public

The District is not planning any major improvements or changes to this initiative for the planning period. The District reserves the right to adjust or make changes to this initiative when deemed necessary.

COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL SECTOR PROGRAMS

Industrial Waste Reduction/Recycling and Education Strategies

The District's industrial waste reduction strategies are presented in Table V-6, "Industrial Waste Reduction Strategies". Industrial programs are projected to decrease -2.10% annually, the same rate as the decrease in employment as projected by the Ohio Department of Job and Family Services (ODJFS), 2016 industry and occupational projections for the Southwest Central Economic Development Region, including Champaign, Clark, Clinton, Darke, Greene, Miami, Montgomery, Preble, and Shelby counties.

The District projects a decrease in industrial recycling from 58,114 tons in 2009 to 39,092 tons by 2027.

1. CC-12 – Business Waste Reduction Assistance (BWRAP)
(State Plan Goals #2, #3, #4)

This program will continue (see description in Section IV). The District recognizes that most businesses have ample economic incentives to recycle and is one of the reasons the District is able to meet its residential/commercial and industrial waste reduction goals. Based on this rationale and the current District workload and other initiatives listed in this *Plan Update*, no major changes are planned for this program in the planning period.

The District will periodically update the website business page and the technical assistance that is offered by the District during the planning period.

OTHER PROGRAMS/INITIATIVES

1. CC-13 – Litter Prevention/Clean-Up Programs

This program will continue (see description in Section IV).

2. CC-14 – Health Department Funding

This program will continue (see description in Section IV).

3. CC-15 – Legal and Consulting

This program will continue (see description in Section IV).

4. CC-16 – Other Facilities
(State Plan Goal #2)

The facilities identified in Section IV are projected to continue throughout the planning period except for the North Montgomery County Transfer Facility. This facility is scheduled to be closed in 2013.

District Specialty Recycling Center

The center for which residents can recycle special wastes (such as electronics, latex paint, used tires, appliances, fluorescent lamps, lead acid batteries, NiCad batteries, etc.) regularly throughout the year.

In-District Transfer Station

The District's Policy Committee and Technical Advisory Committee have identified the following issues relating to an in-district transfer station:

- All solid waste in county must be hauled between 26-34 miles to receiving facilities which adds cost.
- Sixty-two percent of District waste flows through transfer stations prior to landfill disposal.
- Ninety percent of transferred solid waste goes to Montgomery County.
- Montgomery North Transfer Station closing in two years.
- Montgomery County has been subsidizing out-of-district waste through their property taxes.
- South West Ohio is reliant on one primary landfill (Rumpke).

Strategy 1

Based on the above issues, the District will conduct a study on transfer stations during the planning period. The study will have the following key elements (Initiatives 1-3):

- Evaluate current economics of solid waste flow in county (cost per ton managed) as compared to other counties with landfills and/or transfer stations.
- Evaluate costs of operating a transfer station and the overall costs per ton managed.
- Determine the feasibility of a private owned and operated, county owned and operated, and county owned and privately operated transfer station based on economic analysis above.

In the event of a fiscal downturn, the District's Board reserves the right to adjust the amount of funding allocated to this initiative including elimination of funding without declaring a material change in circumstance.

Based on the study results, the District may include additional strategies and initiatives in its next Plan Update regarding an in-district transfer station. The District reserves the right to develop new strategies and initiatives including but not limited to developing an in-district transfer station throughout the planning period.

Implementation Schedule: 2014

Until new policies, strategies and or initiatives are developed, the District will implement the following policy:

Level 1

Support the private sector solution. Assure that the solid waste management plan does not include provisions that would discourage the development of a well sited, privately owned and operated transfer station in Clark County. Educate elected officials, residents and the local waste haulers on the potential benefits of a transfer station.

If Level I does not generate the development of a local transfer facility, the District will consider the Level II strategy and may, or may not, proceed to Level II.

Level II

Issue a Request for Proposals for a privately-owned and privately-operated transfer station.

If the District does not receive any proposals, or an acceptable proposal, it will consider the Level III strategy and may, or may not, proceed to Level III.

Level III

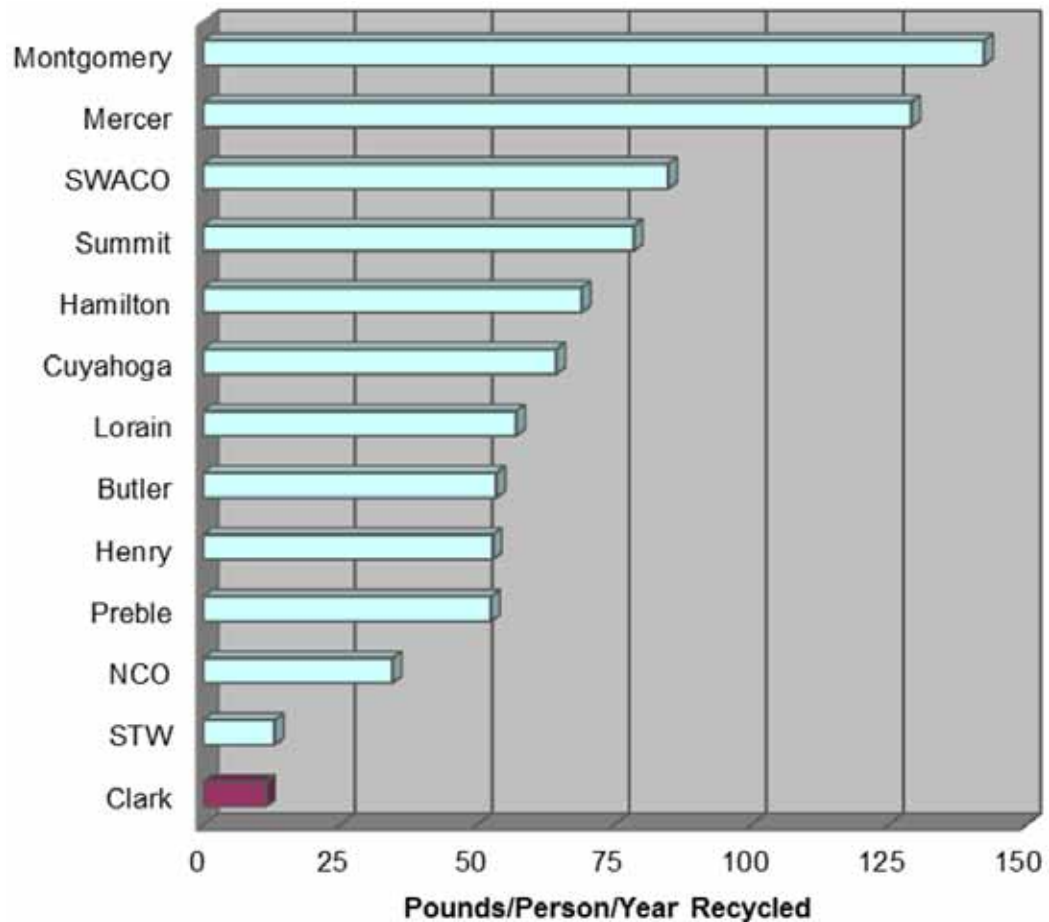
Evaluate the feasibility of a publicly-owned and privately-operated transfer station where the District would own the property.

5. CC-17 – Curbside Recycling Grants - New Program
(State Plan Goals #1 and #2)

The District has learned, during the previous solid waste plan implementation, that creating new contracted non-subscription curbside recycling programs through technical assistance and studies was not necessarily enough to produce the desired results. To date, the District has two non-subscription programs in New Carlisle and Tremont City. The population of these two political subdivisions is less than 6,000 or roughly 4% of the overall population of the District. The City of Springfield, which represents 45% of the District population, is still without non-subscription curbside recycling.

In addition, the District conducted an analysis of several solid waste district curbside recycling programs and their performance statistics. The following graph shows the District's per capita curbside recycling rate compared to other Districts in Ohio:

Curbside Recycling Performance by District



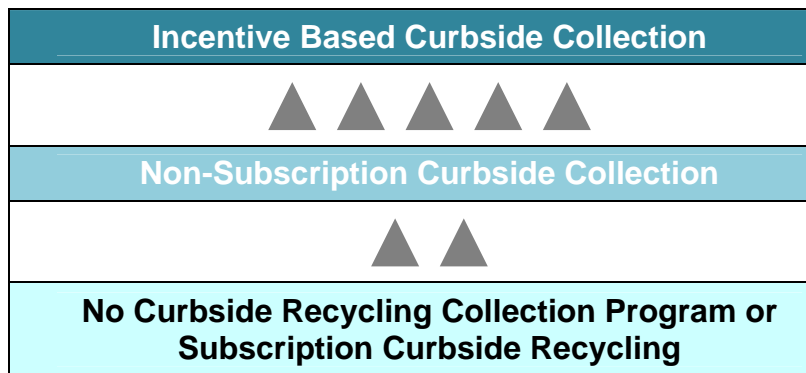
The above graph shows that the District recycled approximately 11 pounds per person per year from its curbside programs. The average pounds recycled per person per year was 84. The District's Policy Committee has concluded that the above stats demonstrate that the lack of non-subscription curbside programs in the District is the major reason for low performance.

With this said, the District's Policy Committee and Technical Advisory Council has determined that new approaches to support the creation of non-subscription curbside recycling by political subdivisions were needed for this *Plan Update*. Based on a series of strategic planning sessions and brain storming conducted, a new strategy has been developed. The District will offer grants to the political subdivisions of the District designed to support the creation or improvement of non-subscription curbside recycling programs. The grants will also create economic incentives for residents if communities implement volume based systems (PAYT) to their non-subscription curbside recycling programs. To accomplish this, the

following will be the new strategies for creating economic incentives for the District.

The District will provide economic incentives for political subdivisions to either start new programs or enhance existing programs that assist the District with maintaining or exceeding its goals as written in this *Plan Update*.

To achieve this objective, the District will award incentive funds based on the District’s preferred curbside recycling program hierarchy:



To accomplish this goal, the District will provide one-time grants to communities that meet the objectives of this program. In order for political subdivisions to yield the best incentive payment for either new program creation or enhancements to existing programs, the District requires that the residents who use the program also pay for the program. Funds awarded under this program will be paid directly to the political subdivision upon award of a contract that meets the program objectives.

a. Qualifying Curbside Collection Programs

For the purposes of this grant, the following section summarizes the two different curbside collection programs.

Non-Subscription Curbside Collection (NSCC)

Non-subscription curbside collection does not require residents of municipalities or townships to sign up for waste and recycling. This service is provided by the municipality or township or contracted by a municipality or township to the private sector. All residents have waste and recycling service, whether they use the services or not.

The benefits of non-subscription curbside collection include the following:

- Convenience – All residents have the ability to recycle at the curb.
- Increased Recycling – Non-subscription curbside recycling programs outperform subscription programs regarding participation and tonnage collected.
- Composting – Single family residents may reduce waste and recycle by practicing home composting and good yard waste management.

Incentive Based Curbside Collection (IBCC)

Incentive based curbside collection includes non-subscription curbside collection at no extra charge for recycling and then charges variable costs for waste service based on volume disposed.

The benefits of IBCC programs include the following:

- Equity – Each household pays equally for use of solid waste services.
- Increased Recycling – Residents have economic incentive to recycle.
- Waste Reduction – Consumers become more aware that they can purchase recyclable packaging, avoid excessive packaging and consider alternatives to disposable products.
- Composting – Single family residents may reduce waste and recycle by practicing home composting and good yard waste management.

In order for a Clark County political subdivision to obtain the highest incentive funding from the District, the political subdivision must implement an IBCC program that meets the requirements stated below. To ensure compliance and to obtain District funding, political subdivisions must follow the procedures and specifications listed below in a contract with a third party solid waste contractor/hauler. Political subdivisions operating their own hauling service must also meet these specifications and sign a Memorandum of Understanding with the District.

Goal of IBCC

The goal for the District is to create a fair system that offers significant economic incentives to residents to reduce waste and recycle.

In order to accomplish this goal, the District's IBCC Program will require each political subdivision meet the following minimum specifications:

Charge for Service/Billing

All residents in single family households within the political subdivision's jurisdiction must pay for their solid waste curbside services in one of two ways:

- Either directly to the service provider (political subdivision or third party hauler) on a monthly or quarterly basis; or
- Through the purchase of bags, tags or stickers that would be made available throughout the community.

The political subdivision or third party hauler may only charge for waste services. Weekly curbside recycling services shall be included in the base container system rates.

Container System

The political subdivision may choose between any of the common acceptable container systems that are used in IBCC programs across the country; examples include:

- **Tag/Sticker System** – Residents purchase the amount of tags/stickers needed for their specific disposal requirements. The cost of each tag/sticker must include weekly waste service and free curbside recycling. Tags/stickers are to be available at both local retail establishments in the political subdivision as well as at public offices and building of the political subdivisions. Tags/stickers must be designed to be specific to the political subdivisions including color coding and logos and must include security measures to prevent counterfeiting. Individual tags/stickers may be placed/affixed on any waste container system (bags or containers) up to 32 gallons in size. Only one tag/sticker can be used for each waste container per weekly service. Once the waste container is emptied, the tag or sticker must be removed by the waste hauler. New tags/stickers must then be purchased by the resident for the next week's waste collection.
- **Bag System** – Residents purchase the amount of bags needed for their specific disposal requirements. The cost of each bag must include weekly waste service and free curbside recycling. Bags must be available at both local retail establishments in the political subdivision as well as at all public offices and buildings of the

political subdivision. Bags must be designed to be specific to the political subdivision including color coding and logos and include security measures to prevent counterfeiting. Bags cannot exceed 32 gallons in size.

- **Cart System** – Residents subscribe to a specific size cart for their waste container. The cost of the cart must include weekly waste service and free curbside recycling. Only one cart at the base rate will be provided to each household and all waste must be contained within in order to be emptied by the waste hauler. Waste not containerized in the cart will not be collected by the waste hauler unless bagged and the residents pay a per bag price. A discount system must be offered to each household based on container size. Communities selecting the cart system must offer residents a choice of multiple container sizes and pricing. The following discount system must be utilized:
 - 65-110 Gallon Cart – Monthly base cost price
 - 49-64 Gallon Cart – 25%-75% Discount from monthly base price
 - 32-48 Gallon Cart – 25%-75% Discount from monthly 49-64 gallon cart price

All pricing includes weekly curbside recycling.

Example: Monthly Costs

Base Cost for 65-110 Gallon Container:	\$22.00
25% Discount for 49-64 Gallon Container:	\$16.50
25% Discount for 32-48 Gallon Container:	\$12.38

In addition, to address periodic large waste generation situations, there must be a cost per 32 gallon bag of waste offered. Bags of waste generated by the resident that do not fit into the provided cart must be charged the per bag price.

- 32 Gallon Per Bag Price – Equal to or less than the 32-48 gallon cart price

Recycling System

The curbside recycling specifications that are recognized as a part of the District's Incentive Based Curbside Collection (IBCC) Program shall meet the following criteria:

- Weekly or bi-weekly service;

- No additional charge for recycling service;
- Container system can be bags, bins or carts;
- The curbside recycling system must accept the following materials;
 - ✓ #1-#2 Plastic Food and Beverage Containers
 - ✓ Aluminum Food/Beverage Containers
 - ✓ Steel/Bi-Metal Food/Beverage Containers
 - ✓ Newspaper
 - ✓ Magazines
 - ✓ Mixed Paper
 - ✓ Paper Board (Cereal Boxes)
 - ✓ Cardboard
 - ✓ Junk Mail
 - ✓ Glass food and beverage containers

Additional Items to Consider During Contract Negotiations

- The pricing discount for smaller carts must be at a cost savings. A resident would have a financial incentive to select a smaller container and recycle more material.
- Consideration of other recyclable materials like plastic #3, #4, #5, #6 and #7.
- Amnesty Days (Super Bowl week, Christmas week, Thanksgiving week and other special events) where residents can put out more than their cart allotment.
- System for Bulk Items (Furniture and items that will not fit in bags or containers). There are many examples of bulk item pickups around Ohio in cities operating carts. Examples include: resident contacts waste hauler and schedules a specific appointment; or a specific bulk item collection day is reserved monthly.

The following section summarizes the funds available:

b. New Curbside Recycling Grant Program

If a community creates a new curbside recycling program through either operating it themselves or contracting for the service with the private sector, the following table summarizes the one-time funds available for new program creation:

Qualified Programs	Funds for Populations 1 to 10,000 (Per Capita)	Funds for Populations 10,001 to 20,000 (Per Capita)	Funds for Populations > 20,000 (Per Capita)
IBCC	\$10.00	\$6.00	\$1.60
NSCC	\$5.00	\$3.00	\$0.80

Under the above one-time grant per capita allowances, the political subdivisions in Clark County could realize the following total grant amounts:

Political Subdivision	2009 Population	IBCC Per Capita Allowance	NSCC Per Capita Allowance	IBCC One Time Grant	NSCC One Time Grant
Catawba	313	\$10.00	\$5.00	\$3,130.00	\$1,565.00
Clifton	48	\$10.00	\$5.00	\$480.00	\$240.00
Donnelsville	282	\$10.00	\$5.00	\$2,820.00	\$1,410.00
Enon	2,534	\$10.00	\$5.00	\$25,340.00	\$12,670.00
New Carlisle	5,617	\$10.00	n/a	\$56,170.00	n/a
North Hampton	352	\$10.00	\$5.00	\$3,520.00	\$1,760.00
South Charleston	1,773	\$10.00	\$5.00	\$17,730.00	\$8,865.00
South Vienna	449	\$10.00	\$5.00	\$4,490.00	\$2,245.00
Springfield	62,060	\$1.60	\$0.80	\$99,296.00	\$49,648.00
Tremont City	341	\$10.00	n/a	\$3,410.00	n/a
Bethel Twp.	12,488	\$6.00	\$3.00	\$74,928.00	\$37,464.00
German Twp.	7,234	\$10.00	\$5.00	\$72,340.00	\$36,170.00
Green Twp.	2,764	\$10.00	\$5.00	\$27,640.00	\$13,820.00
Harmony Twp.	3,254	\$10.00	\$5.00	\$32,540.00	\$16,270.00
Madison Twp.	1,143	\$10.00	\$5.00	\$11,430.00	\$5,715.00
Mad River Twp.	9,023	\$10.00	\$5.00	\$90,230.00	\$45,115.00
Moorefield Twp.	11,104	\$6.00	\$3.00	\$66,624.00	\$33,312.00
Pike Twp.	3,596	\$10.00	\$5.00	\$35,960.00	\$17,980.00
Pleasant Twp.	2,972	\$10.00	\$5.00	\$29,720.00	\$14,860.00
Springfield Twp.	12,324	\$6.00	\$3.00	\$73,944.00	\$36,972.00

The funds listed above are available on a first come first serve basis for qualifying programs. The total funds awarded will not exceed the amount budgeted in Section VIII of this *Plan Update* for this program without approval by the District's Board. It is the intent of the District to have funding available only in 2015 and 2016. In the event of a fiscal downturn, the District's Board reserves the right to adjust the amount allocated to this

program including elimination of funding amounts on an annual basis without declaring a material change in circumstances.

c. Annual Budget

The District will budget funds for years 2016 and 2017 of the planning period. Years 2013 to 2015 will allow the District to accumulate funds for potential award in 2016 and 2017. The amount budgeted for these two years will only allow for a few new programs and/or Curbside Recycling Grants to be awarded. The objective of this program is to create incentives for communities to either create or enhance programs to increase recycling. The District reserves the right to award grants prior to 2016 and to spend more than budgeted amount (through excess fund balance or other cost savings) as deemed in the best interest of the District and with approval from the Board.

The District, during the next Plan Update, will evaluate the success of the program to determine if the program will be continued and/or additional funds will be allocated.

d. Additional Requirements

Funds received through this Program can be spent to support the recipient's recycling programs. Thus, earned money can be used to offset the costs of providing the programs, to provide education regarding the programs, to pay for costs of processing collected materials, to purchase equipment necessary to provide the programs, etc. Funds may also be used for other purposes as determined by the political subdivision.

The grantee must enter into an agreement with the District that will stipulate the operation of the new or enhanced program for a minimum of three years.

e. Technical Assistance

The District also realizes that creating new programs, upgrading existing programs and contracting with the private sector can be a difficult process. The District will provide technical assistance to any community that is awarded funds under this program, specifically:

- Contract and specification development;
- Surveying of residents to determine level of support for programs;
- Program development and support; and
- Program promotion.

6. CC-18 – Food Waste Management Program (New Program)
(State Plan Goal #2)

Paygro is a Class II licensed composting facility and may accept food waste. They have conducted successful pilot studies with the Ohio Grocer's Association and the Ohio DNR and Ohio EPA. The District has also assisted Paygro in obtaining two Market Development Grants that have enabled them to purchase equipment to collect and process food waste specifically from retail establishments and institutions.

Strategy 1

The District is committed to growing the management of food waste and other organic waste materials in the County. To accomplish this goal, the following initiatives will be conducted throughout the planning period.

Initiative 1-1

The District will work with Paygro to promote food waste recycling opportunities to local businesses and institutions. This could include education and awareness activities, presentations, workshops, mailers, advertisements and technical assistance to businesses and institutions.

Implementation Schedule: 2013 – 2027

Initiative 1-2

The District will evaluate other solid waste district initiatives in the management of food waste to gather new ideas.

Implementation Schedule: 2014

Initiative 1-3

The District will work with Paygro to obtain additional grants to improve or add to the capabilities of Paygro to collect, process and manage food waste and other organic wastes.

Implementation Schedule: 2013 – 2027

Initiative 1-4

For any community that applies for the District's Curbside Recycling Grant Program, the District will promote the collection of food waste and other organics as a part of the grant implementation.

Implementation Schedule: 2013 – 2017

Initiative 1-5

The District will evaluate whether the anaerobic digestion technology currently being implemented across Ohio would be feasible for any of the District's waste water treatment plants.

Implementation Schedule: 2015

The following table summarizes the program details.

Program Summary	
Description	Details
Program Number	CC-18
Program Implementation	2014
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Varies
2009 Recycled Tonnage	N/A
2009 Annual Program Costs	\$0
Program Operator/Contractor	Private Sector

7. CC-19 – Disaster Debris Assistance (New Program)

Responding to natural disasters, such as flood events, tornados, and severe storms, requires a significant effort of coordination and time from all levels of government. Natural disasters including disease (pandemic bird flu) can also significantly impact communities and specifically solid waste services. Man-made disasters, although unlikely, may also require management of significant amounts of debris. The Ohio EPA is encouraging all solid waste management districts to outline a strategy and plans to be prepared in the event a natural or man-made disaster occurs.

Since 2010, the District has worked cooperatively with the Clark County Emergency Management Agency to develop a Disaster Debris Management Plan that was adopted in 2011. The Plan identifies the services and needs of the local jurisdictions in the event a debris management emergency or a solid waste management service emergency exists. The District will act as Debris Coordinator as part of the Emergency Operation Command in collaboration with the county EMA when called upon to do so in order to implement this Plan.

The Disaster Debris Management Plan provides guidance to officials in the event of a disaster event.

- Understanding the roles of various agencies in responding to a disaster event is important. The Plan identifies each organization and their potential role in a debris management emergency. These include the following:
 - Townships, villages and cities
 - The Clark County EMA
 - The Ohio EMA
 - The Federal EMA
 - The County Health Department
 - The Ohio EPA Southwest District Office
 - Landfill owners/operators
 - Composting facility owners/operators
 - Waste hauling companies
- Establishing and monitoring local collection areas.
- Assisting with coordination of response activities.

If there is a need for emergency Clark County Disaster Debris funding, the District may allocate up to 5% of excess District funding or up to \$15,000. The District, EMA and the county will make every effort to seek reimbursement from local, state and federal funding sources.

Program Summary	
Description	Details
Program Number	CC-19
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Not Applicable
Projected Annual Recycled Tonnage	Not Applicable
2011 Program Costs	N/A
Program Operator/Contractor	District

8. Operating Contingency

This program will not continue into the planning period.

9. Recycling Contingency

This program will not continue into the planning period.

**Table V-1
District Population Projections**

Year	Clark County Population	Clifton	Total District Population
2009	139,671	-48	139,623
2010	138,333	-48	138,285
2011	138,416	-48	138,368
2012	138,499	-48	138,451
2013	138,582	-48	138,534
2014	138,665	-49	138,617
2015	138,748	-49	138,700
2016	138,832	-49	138,783
2017	138,915	-49	138,866
2018	138,998	-49	138,949
2019	139,082	-49	139,033
2020	139,165	-49	139,116
2021	139,249	-49	139,199
2022	139,332	-49	139,283
2023	139,416	-49	139,366
2024	139,500	-50	139,450
2025	139,583	-50	139,534
2026	139,667	-50	139,617
2027	139,751	-50	139,701

Source(s) of information: The 2009 population values are taken from Table IV-1, 2010 population was taken from the 2010 Census.

Projections are based on the annual percent change of the District from the Ohio Department of Development Office of Strategic Research (July 2010) *Projected Percent Population Change 2010 to*

Community Population	Percent Change 2010-2030	Annual Percent Change
Clark County	1.15%	0.06%
Clifton (Greene County)	4.47%	0.22%

Clark Population Projections (ODOD)						
2000	2005	2010	2015	2020	2025	2030
144,742	144,132	142,304	141,952	141,663	142,903	143,958
2000 to 2030 % Change			-0.54%	-0.02%		
2010 to 2030 % Change			1.15%	0.06%		

Greene Population Projections (ODOD)						
2000	2005	2010	2015	2020	2025	2030
147,890	148,550	151,760	153,520	159,590	157,240	158,860
2000 to 2030 % Change			6.91%	0.23%		
2010 to 2030 % Change			4.47%	0.22%		

Sample calculation:

Population in previous year + (population in previous year x growth rate) = Population in current year

Example: Clark County

$$2011 \text{ Year} \quad 138,333 + (138,333 \times 0.06\%) = 138,416$$

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

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2009	139,623	6.16	157,009
2010	138,285	6.19	156,282
2011	138,368	6.22	157,157
2012	138,451	6.25	158,038
2013	138,534	6.29	158,923
2014	138,617	6.32	159,813
2015	138,700	6.35	160,709
2016	138,783	6.38	161,609
2017	138,866	6.41	162,514
2018	138,949	6.44	163,425
2019	139,033	6.48	164,341
2020	139,116	6.51	165,261
2021	139,199	6.54	166,187
2022	139,283	6.57	167,118
2023	139,366	6.61	168,054
2024	139,450	6.64	168,996
2025	139,534	6.67	169,943
2026	139,617	6.71	170,895
2027	139,701	6.74	171,852

Source(s) of information:

District Population-Table V-1

The per capita generation rate for 2009 was calculated based on actual disposal and recycling data from Ohio EPA's Facility Data Report, Table 14 and the District's 2009 Annual District Report respectively.

Per Capita Generation Rate: calculated using incremental increases recommended by Ohio EPA in a document titled "Estimating Per Capita Residential/Commercial Waste Generation" for years 2010-2025.

Sample calculation:

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

2009 Total Residential/Commercial Waste Generation = 139,623 x 6.16 x 365 x 1/2,000 = 157,009

Table V-3
Projected Industrial Waste Generation

SIC Category	Year																		
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
20	13,071	12,796	12,527	12,264	12,007	11,755	11,508	11,266	11,030	10,798	10,571	10,349	10,132	9,919	9,711	9,507	9,307	9,112	8,920
22	19	19	19	18	18	18	17	17	16	16	16	15	15	15	14	14	14	14	13
23	381	373	365	358	350	343	336	329	322	315	308	302	296	289	283	277	272	266	260
24	4,831	4,729	4,630	4,533	4,437	4,344	4,253	4,164	4,076	3,991	3,907	3,825	3,744	3,666	3,589	3,513	3,440	3,367	3,297
25	44	43	42	41	40	40	39	38	37	36	36	35	34	33	33	32	31	31	30
26	2,548	2,494	2,442	2,391	2,341	2,291	2,243	2,196	2,150	2,105	2,061	2,017	1,975	1,934	1,893	1,853	1,814	1,776	1,739
27	543	532	521	510	499	489	478	468	458	449	439	430	421	412	404	395	387	379	371
28	181	178	174	170	167	163	160	156	153	150	147	144	141	138	135	132	129	126	124
29	6,649	6,510	6,373	6,239	6,108	5,980	5,854	5,731	5,611	5,493	5,378	5,265	5,154	5,046	4,940	4,836	4,735	4,635	4,538
30	2,273	2,226	2,179	2,133	2,088	2,045	2,002	1,960	1,918	1,878	1,839	1,800	1,762	1,725	1,689	1,654	1,619	1,585	1,552
31	128	125	122	120	117	115	112	110	108	105	103	101	99	97	95	93	91	89	87
32	605	593	580	568	556	545	533	522	511	500	490	479	469	459	450	440	431	422	413
33	5,532	5,416	5,302	5,191	5,082	4,975	4,871	4,769	4,668	4,570	4,474	4,380	4,288	4,198	4,110	4,024	3,939	3,857	3,776
34	10,907	10,678	10,454	10,235	10,020	9,809	9,603	9,402	9,204	9,011	8,822	8,636	8,455	8,277	8,104	7,933	7,767	7,604	7,444
35	4,221	4,132	4,045	3,960	3,877	3,796	3,716	3,638	3,561	3,487	3,413	3,342	3,272	3,203	3,136	3,070	3,005	2,942	2,880
36	187	183	179	175	172	168	165	161	158	155	151	148	145	142	139	136	133	130	128
37	5,831	5,708	5,588	5,471	5,356	5,244	5,133	5,026	4,920	4,817	4,716	4,617	4,520	4,425	4,332	4,241	4,152	4,065	3,979
38	43	43	42	41	40	39	38	37	37	36	35	34	34	33	32	32	31	30	30
39	118	116	113	111	109	106	104	102	100	98	96	94	92	90	88	86	84	82	81
Totals	58,114	56,894	55,689	54,529	53,384	52,263	51,165	50,091	49,039	48,009	47,001	46,014	45,048	44,102	43,176	42,269	41,381	40,512	39,662

Projected Employment Growth For Manufacturing Industries	
SIC Industry Category	Percent Change Annual Percent Change * 2006-2016
Manufacturing	-23.10%
	-2.10%

Source(s) of information:

Industrial Generation by SIC Code for 2009 from Table IV-2 adjusted to correspond to total industrial waste on Table IV-8

Change in industrial generation is calculated based on the change in employment for the manufacturing industries.

The Ohio Department of Job and Family Services (ODJFS), 2016 industry and occupational projections for the Southwest Central Economic Development Region, including Champaign, Clark, Clinton, Darke, Greene, Miami, Montgomery, Preble, and Shelby Counties

* The percent annual change for SIC Code 20, 22-39 is calculated using the average annual change in employment for the broad category of manufacturing industries. Changes in employment by SIC code are no longer available because ODJFS no longer tracks data by SIC code, only the new NAICS codes are now used.

Sample calculation:

(Waste generated in previous year) + (waste generated in previous year x assumed growth rate) = waste generated in estimated year

2009 SIC Code 20

(13,071) + (13,071 x -2.10%) = 12,796 2010 SIC Code 20

Table V-3A
Standard Industrial Classifications

SIC	Description
20	Food and Kindred Products
22	Textile Mill Products
23	Apparel and Other Finished Products Made from Fabric
24	Lumber and Wood Products, Except Furniture
25	Furniture and Fixtures
26	Paper and Allied Industries
27	Printing, Publishing, and Allied Products
28	Chemicals and Allied Products
29	Petroleum Refining and Related Industries
30	Rubber and Miscellaneous Plastic Products
31	Leather and Leather Products
32	Stone, Clay, Glass and Concrete Products
33	Primary Metal Industries
34	Fabricated Metal Products, Except Machinery and Transportation
35	Industrial and Commercial Machinery and Computer Equipment
36	Electronic and Other Electrical Equipment and Components
37	Transportation Equipment
38	Measuring, Analyzing and Controlling Instruments
39	Miscellaneous Manufacturing Industries

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)
2009	157,009	58,114	135	215,258	8.45
2010	156,282	56,894	135	213,310	8.45
2011	157,157	55,699	135	212,991	8.43
2012	158,038	54,529	135	212,702	8.42
2013	158,923	53,384	135	212,442	8.40
2014	159,813	52,263	135	212,211	8.39
2015	160,709	51,165	135	212,009	8.38
2016	161,609	50,091	135	211,835	8.36
2017	162,514	49,039	135	211,689	8.35
2018	163,425	48,009	135	211,569	8.34
2019	164,341	47,001	135	211,477	8.33
2020	165,261	46,014	135	211,410	8.33
2021	166,187	45,048	135	211,370	8.32
2022	167,118	44,102	135	211,355	8.31
2023	168,054	43,176	135	211,365	8.31
2024	168,996	42,269	135	211,400	8.31
2025	169,943	41,381	135	211,459	8.30
2026	170,895	40,512	135	211,542	8.30
2027	171,852	39,662	135	211,649	8.30

Source(s) of information:

Residential/Commercial Table V-2

Industrial Table V-3

Exempt Waste is projected to remain flat throughout the planning period.

Sample calculation (2010):

Exempt waste projection based on 0.06% increase

(Waste generated in previous year) + (waste generated in previous year x assumed 0.% increase) = waste generated in estimated year

$$(135) + (135 \times 0.0006) = 135$$

Total Waste = Residential/Commercial + Industrial + Exempt

$$215,258 = 157,009 + 58,114 + 135$$

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

$$8.45 = \frac{213,311 \times 2,000}{138,285 \times 365}$$

Table V-5
Residential/Commercial Waste Reduction Strategies

Strategy	Program #	Type of Material Reduced and/or Recycled	Tons of Waste Reduction																			
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Residential Source Reduction Strategies																						
Education and Awareness Programs	CC-11	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Recycling Programs																						
Clark County Recycling Center	CC-01	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	139	139	139	139	139	139	140	140	140	140	140	140	140	140	140	140	140	140	140	141
Curbside Recycling	CC-02	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	800	801	801	802	802	803	843	885	923	976	1,073	1,181	1,299	1,429	1,571	1,729	1,901	2,092	2,301	
Franchise Waste Collection Program	CC-03	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drop-Off Recycling	CC-04	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	83	83	83	83	83	83	83	83	83	83	83	84	84	84	84	84	84	84	84	84
Yard Waste Management	CC-05	YW	40,004	40,028	40,052	40,076	40,100	40,124	40,148	40,172	40,196	40,221	40,245	40,269	40,293	40,317	40,341	40,366	40,390	40,414	40,438	
Household Hazardous Waste Collection	CC-06	HHW	94	94	94	94	94	94	94	94	94	95	95	95	95	95	95	95	95	95	95	95
Electronics Recycling	CC-07	EW	101	101	101	101	101	101	101	101	101	102	102	102	102	102	102	102	102	102	102	102
Scrap Tire Collection	CC-08	ST	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Government Office Recycling	CC-09	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	130	130	130	130	130	130	130	130	130	130	130	131	131	131	131	131	131	131	131	131
Business Paper Recycling	CC-10	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	226	226	226	226	227	227	227	227	227	227	227	227	228	228	228	228	228	228	228	228
Residential - Commercial - Education-Awareness Programs																						
Education and Awareness Programs	CC-11	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial/Industrial - Technical Programs																						
Business Waste Reduction Assistance (BWRAP)	CC-12	Oth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Programs																						
Litter Prevention/Clean-Up Programs	CC-13	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Health Department Funding	CC-14	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Legal and Consulting	CC-15	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Facilities	CC-16	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Curbside Recycling Incentive Grants	CC-17	AC, GL, PL, ONP, OCC, SC, Pbd, MXP, Oth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Food Waste Management	CC-18	FW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disaster Debris Management	CC-19	n/a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Programs																						
Other Commercial Recycling	n/a	n/a	18,737	18,748	18,759	18,771	18,782	18,793	18,804	18,816	18,827	18,838	18,849	18,861	18,872	18,883	18,895	18,906	18,917	18,929	18,940	
Grand Totals			60,358	60,394	60,430	60,467	60,503	60,539	60,615	60,693	60,773	60,856	60,989	61,132	61,286	61,452	61,631	61,824	62,033	62,259	62,505	

Source(s) of information:

2009 Recycling Data is from table IV-5, 2009 Data is from the 2009 ADR

Projected value for each residential/commercial recycling program (except curbside programs) is calculated at the same rate as the population change from Table V-1.

AC=Aluminum Containers; GL=Glass Containers; PL= Plastic Containers; ONP=Old Newspaper; OCC=Corrugated Cardboard; SC=Steel Containers; Pbd=Paperboard; LAB=Lead Acid Battery; Mag=Magazines; Off=Office Paper; MXP=Mixed Paper; ST=Scrap Tires; App=Appliances; Oth=Other; HHB=Household Batteries; YW=Yard Waste; EW=Electronic Waste; Oth-Other; FW=Food Waste, n/a=not applicable

Sample calculation:

2010 Programs = 2009 Programs + (2009 Curbside Programs x 0.06%)

2010 Yard Waste Management Program 780 = 779 * 1.006

Table V-6
Industrial Waste Reduction Strategies

Strategy	Program #	Type of Material Reduced and/or Recycled	Tons of Source Reduction/Recycling																		
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Industrial Sector Technical Assistance and Education Programs: Source Reduction																					
Industrial Technical Assistance	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Sector Technical Assistance and Education Programs: Recycling																					
Industrial Recycling	N/A	AL, FM, NFM, P, OCC, W, OP, OM	56,076	54,898	53,746	52,617	51,512	50,430	49,371	48,334	47,319	46,326	45,353	44,400	43,468	42,555	41,661	40,787	39,930	39,092	38,271
		Subtotal	56,076	54,898	53,746	52,617	51,512	50,430	49,371	48,334	47,319	46,326	45,353	44,400	43,468	42,555	41,661	40,787	39,930	39,092	38,271
Other Waste Reduction Strategies																					
None	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Grand Totals	56,076	54,898	53,746	52,617	51,512	50,430	49,371	48,334	47,319	46,326	45,353	44,400	43,468	42,555	41,661	40,787	39,930	39,092	38,271

Note:

Industrial recycling projections are based on the average annual percent change in employment of -2.10%. See table V-3.

AL=Aluminum, FM=Ferrous Metals, NFM=Non-Ferrous Metals, P= Plastic, OCC=Corrugated Cardboard, OP=Office Paper, W=Wood, OM=Other Metal

Sample calculation:

Waste recycled in previous year + (Waste recycled in previous year x Annual Change in Employment) = Recycling in Estimated Year
 $56,076 \times -2.10\% (0.979) = 54,898$

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

A. District Methods for Management of Solid Waste

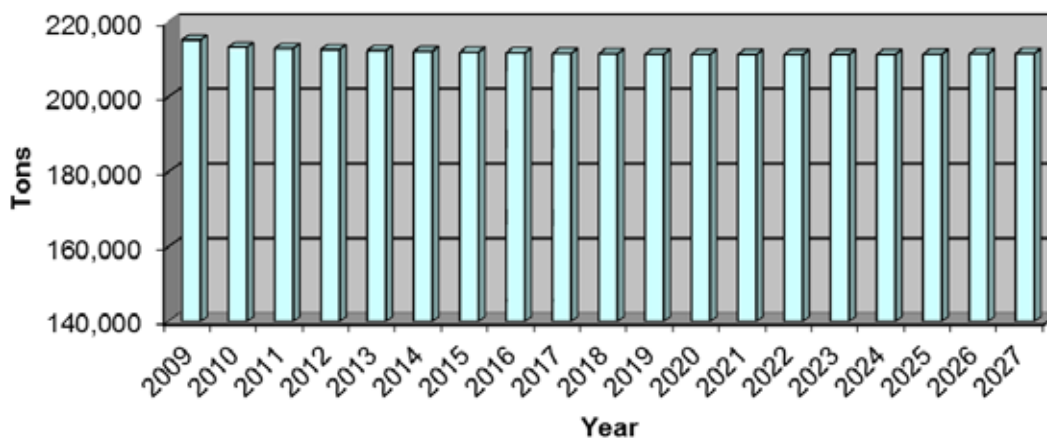
1. Waste Management Methods for All Sectors

Table VI-1 presents the waste management methods used and capacity needed for each year of the planning period. This includes waste generation, waste reduction, transferred waste, composting, and landfill disposal.

Waste Generation

The total waste generated by the District in 2009 was calculated to be 215,258 tons. Waste generation includes waste reduction tons plus disposal tons. The District projects 212,442 tons of solid waste will be generated in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will generate 211,649 tons. The projected tons decrease is due primarily to the anticipated decrease in industrial waste generation. The following graph shows the projected total net tons to be managed by the District throughout the planning period.

District Waste Generation Projections (2009 – 2027)

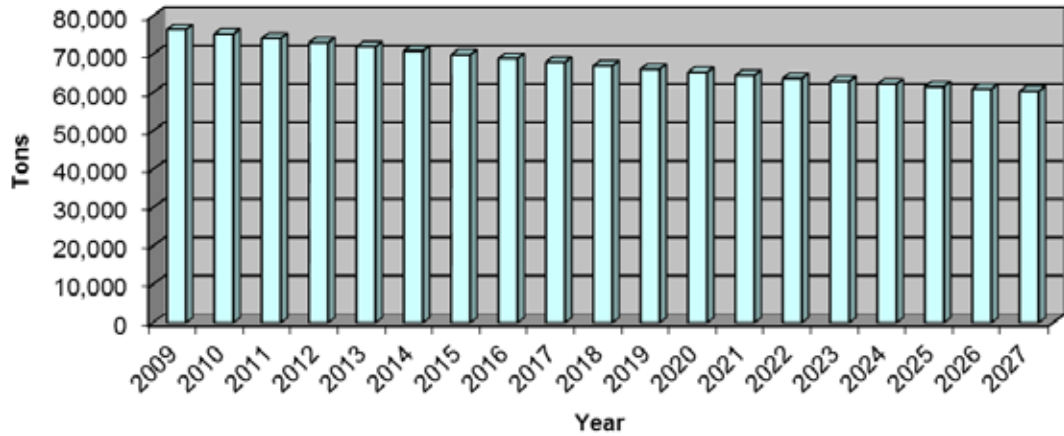


Waste Reduction

The total waste reduction by the District in 2009 was calculated to be 76,430 tons. Waste reduction includes recycling and source reduction. The District projects 71,915 tons of solid waste will be reduced in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will reduce 60,337 tons. The projected tons decrease is due primarily to the anticipated decrease in industrial waste reduction.

The following graph shows the projected total waste reduction by the District throughout the planning period.

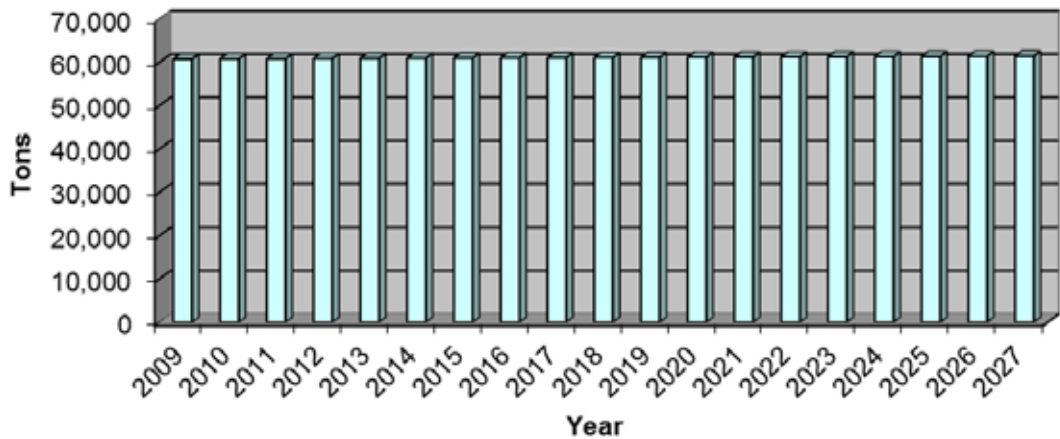
District Waste Reduction Projections (2009 – 2027)



Transferred Waste

The total waste transferred by the District in 2009 was calculated to be 60,786 tons. Transferred waste includes all solid waste that first went to a licensed transfer station. The District projects 60,932 tons of solid waste will be transferred in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will transfer 61,446 tons. The projected tons increase is based on the projected population increase of 0.06%. The following graph shows the projected transferred waste by the District throughout the planning period.

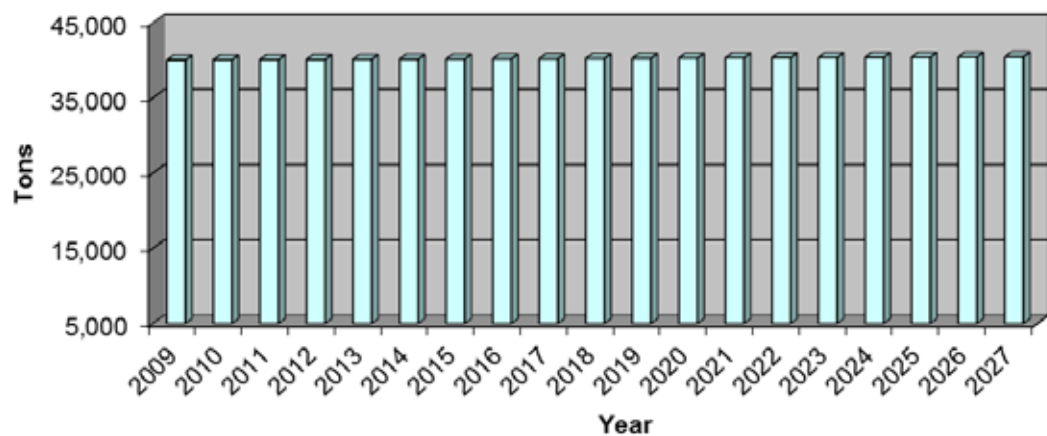
District Waste Transferred Projections (2009 – 2027)



Composted Waste

The total waste composted by the District in 2009 was calculated to be 40,004 tons. Composted waste includes all solid waste that first went to a licensed compost facility or was land applied to farm fields. The District projects 40,100 tons of solid waste will be composted in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will compost 40,438 tons. The projected tons increase is based on the projected population increase of 0.06%. The following graph shows the projected composted waste by the District throughout the planning period.

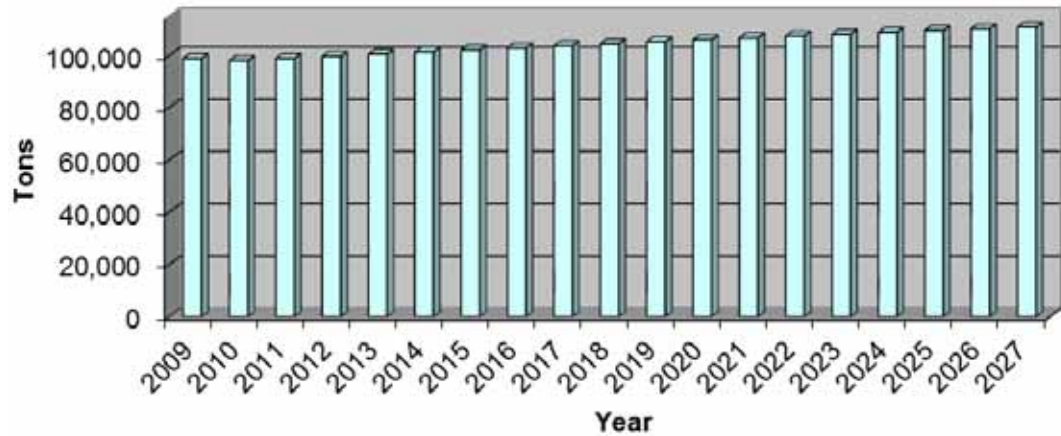
District Composted Waste Projections (2009 – 2027)



Landfilled Waste

The landfill total in Table VI-1 for 2009 (98,824 tons) is calculated by subtracting recycling and yard waste composted from the net tons to be managed by the District. The District projects 100,427 tons of solid waste will be disposed of in landfills in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will need to landfill 110,873 tons. The projected tons increase is due primarily to the anticipated increase in residential/commercial waste disposal. The following graph shows the projected total landfill tons to be managed by the District throughout the planning period.

District Waste Landfilled Projections (2009 – 2027)



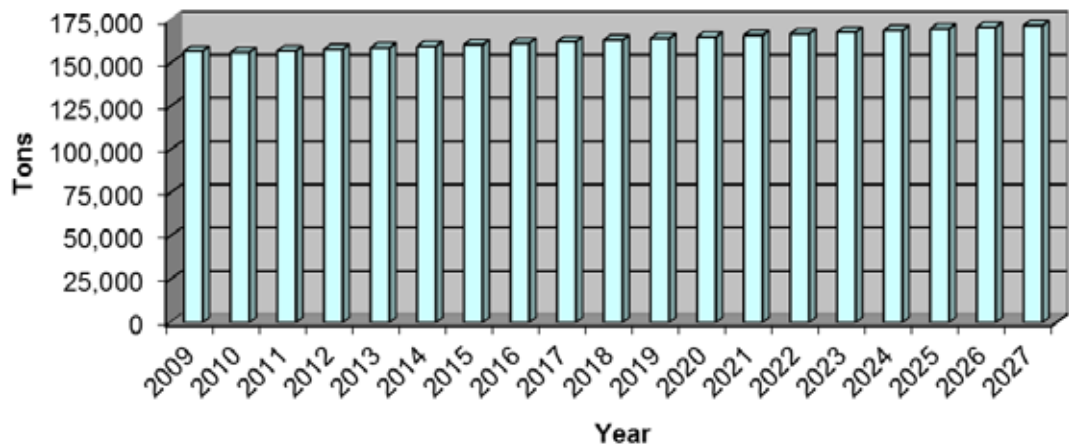
2. Residential/Commercial Waste Management Methods

Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District.

Waste Generation

The waste generation for the residential/commercial sector in 2009 was calculated to be 157,009 tons. The District projects 158,923 tons of solid waste will need to be managed in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will need to manage 171,852 tons. The following graph shows the projected total waste generation to be managed by the District for the residential/commercial sector throughout the planning period.

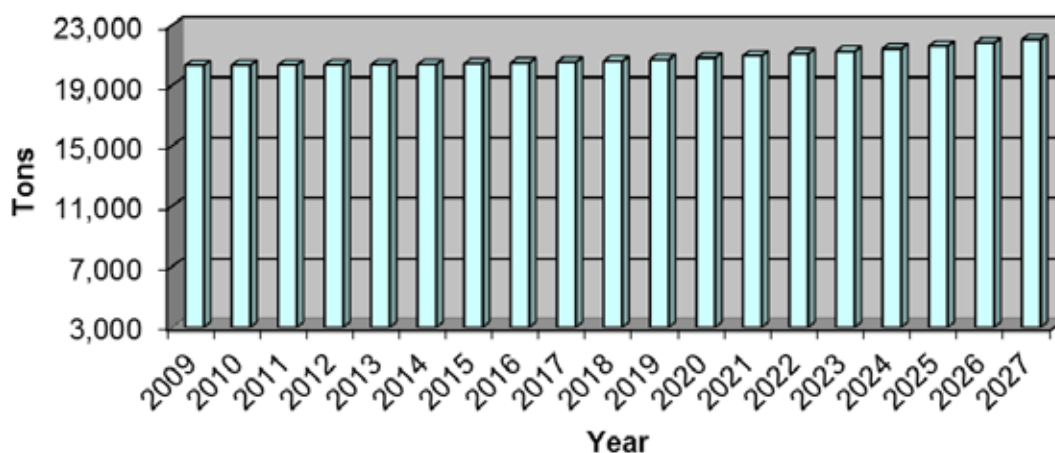
District Residential/Commercial Waste Generation Projections (2009 – 2027)



Waste Reduction

The total waste reduction by the District in 2009 was calculated to be 20,354 tons. Waste reduction includes recycling and source reduction. The District projects 20,403 tons of solid waste will be reduced in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will reduce 22,066 tons. The following graph shows the projected total waste reduction by the District throughout the planning period.

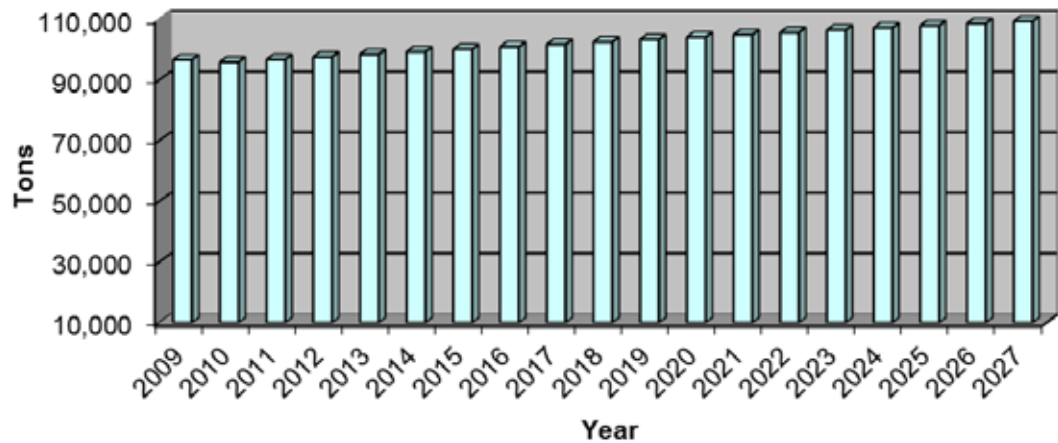
**District Residential/Commercial Waste Reduction Projections
(2009 – 2027)**



Landfilled Waste

The landfill total in Table VI-2 for 2003 (96,651 tons) is calculated by subtracting recycling and yard waste composted from the net tons to be managed by the District. The District projects 98,420 tons of solid waste will be disposed of in landfills in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will need to landfill 109,347 tons. The following graph shows the projected total landfill tons to be managed by the District throughout the planning period.

District Residential/Commercial Landfill Projections (2009 – 2027)



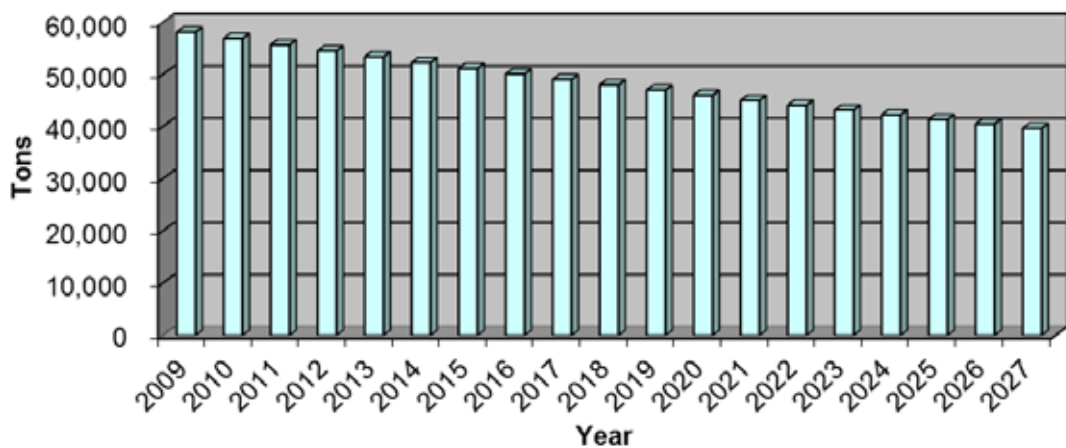
3. Industrial Sector Waste Management Methods

Table VI-3 presents a summary of solid waste management methods for industrial solid waste generated in the District.

Waste Generation

The waste generation for the industrial sector in 2009 was calculated to be 58,114 tons. The District projects 53,384 tons of solid waste will need to be managed in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will need to manage 39,662 tons. The following graph shows the projected total waste generation to be managed by the District for the industrial sector throughout the planning period.

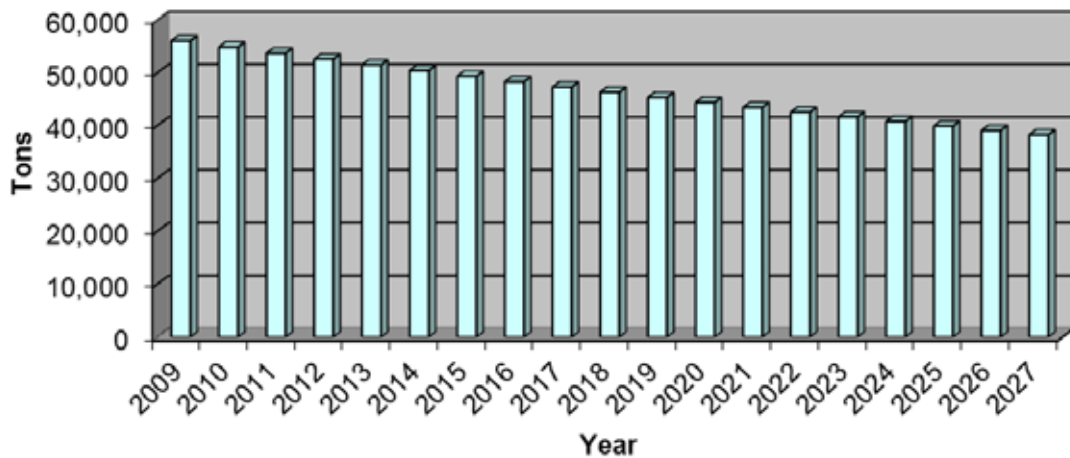
District Industrial Waste Generation Projections (2009 – 2027)



Waste Reduction

The total waste reduction by the District in 2009 was calculated to be 56,076 tons. Waste reduction includes recycling and source reduction. The District projects 51,512 tons of solid waste will be reduced in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will reduce 38,271 tons. The following graph shows the projected total waste reduction by the District throughout the planning period.

District Industrial Waste Reduction Projections (2009 – 2027)



Landfilled Waste

The landfill total in Table VI-3 for 2009 (2,038 tons) is calculated by subtracting recycling from the net tons to be managed by the District. The District projects 1,872 tons of solid waste will be disposed of in landfills in 2013, the first year of the planning period, and by the end of the planning period in 2027 the District will need to landfill 1,391 tons. The following graph shows the projected total landfill tons to be managed by the District throughout the planning period.

District Industrial Landfill Projections (2009 – 2027)

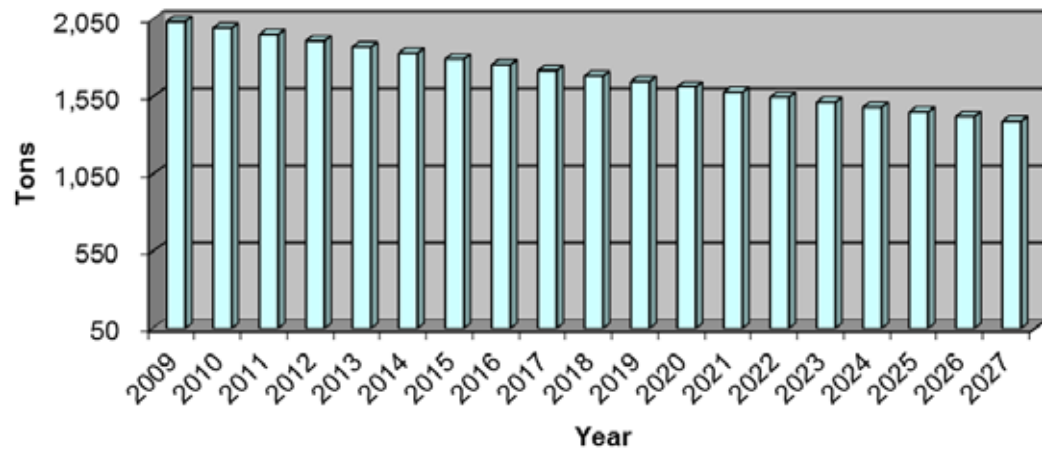


Table VI-4A, “Waste Management Method: Landfill,” presents the historical landfill capacity utilization and needed landfill projections throughout the planning period.

Table VI-4B, “Waste Management Method: Incineration,” does not show any projections for incineration throughout the planning period.

Table VI-4C, “Waste Management Method: Transfer,” the District projects transferred waste will increase at the same rate as population throughout the planning period. In 2013, the first year of the planning period, the District projects approximately 60,786 tons of solid waste will be managed by transfer facilities. This increases to 61,446 tons in 2027, the final year of the planning period.

Significant transfer station utilization by the District has resulted in the following issues:

- All solid waste in county must be hauled between 26-34 miles to receiving facilities which adds cost.
- > 60% of District waste flows through transfer stations prior to landfill disposal.
- Ninety percent of transferred solid waste goes to Montgomery County.

Additionally, the following issues related to Montgomery County have the District concerned:

- Montgomery North Transfer Station projected to close in two years.

- Montgomery County has been subsidizing out-of-district waste through their property taxes.

Based on the above, the District will be evaluating transfer station operations, costs and the potential development of an in-district facility during this *Plan Update*. See Section V for more details.

Table VI-4D, "Waste Management Method: Recycling," the District is projected, on average, to recycle approximately 65,591 tons of material annually throughout the planning period (2013 – 2027). The majority of this material is industrial. The District is projecting most residential/commercial recycling (except curbside which is escalated between 5% and 10% annually) will increase 0.06% annually as the average population increases. Industrial recycling is projected to decrease 2.10% annually due primarily to the projected decrease in manufacturing employment as determined by the Ohio Department of Job and Family Services.

Table VI-4E, "Waste Management Method: Composting," the District is projecting compost will increase 0.06% annually the same rate as the population increase. However, the amount of yard waste generated is typically subject to weather conditions. The projection is based on the fact that a significant percentage of yard waste continues to be landfilled and the District will be working to educate political subdivisions and residents that yard waste should be delivered to local yard waste programs and compost facilities.

B. Demonstration of Access to Capacity

During the 2009 reference year, the District utilized 5 out-of-district landfills for direct haul disposal. The District also used 5 out-of-district transfer stations. Of these facilities, the District relied directly on landfills for 38% of the solid waste disposed by District generators and transfer stations for 62%.

For 2009 data, the Ohio EPA tracked waste disposal tonnage by solid waste district at the first facility where waste was accepted. Since the District cannot demonstrate disposal capacity at landfills for 100% of the waste disposed by District generators, a regional capacity analysis was conducted on the landfills used by the District directly and landfills used by transfer stations that accepted District waste.

The following section summarizes the regional capacity analysis the District used to demonstrate access to capacity.

Regional Capacity Analysis

The purpose for the regional capacity analysis is to evaluate and demonstrate that the District has access to disposal capacity during the planning period. In order to conduct a landfill capacity analysis, the District first developed a list of landfills used in the reference year (2009) that generators sent their waste to directly. Then the District developed a list of landfills used by the transfer stations that reported District waste receipts in 2009. The District then conducted a capacity analysis for the combined list of landfills to determine their projected life expectancy based on their average daily receipts. The evaluation also determined each landfill's estimated cubic yard of air space available. Finally, the District calculated the amount of tonnage and compacted cubic yards of air space needed for the entire planning period by the District.

The District projects an average annual need of approximately 105,792 tons or 317,376 cubic yards of landfill capacity. Over the 15 year planning period (2013 – 2027), the District will dispose of approximately 1,586,881 tons or 4,760,643 cubic yards of solid waste. Applying an average 2:1 compaction ratio for landfilled solid waste, the District will need approximately 2,380,321 cubic yards of airspace capacity over the fifteen year planning period.

Direct Haul Landfill Capacity Analysis

Landfills used by the District in 2009 that received waste directly from generators have an average life expectancy of 22 years. The District, on average, consumes 0.08% of the annual capacity for each landfill listed below and over a 15 year planning period, the District would consume 1.22% of the permitted capacity of the landfills listed below.

Using the projected landfill air space needs of the District for the planning period (2,380,321 cubic yards), 2 of the 5 landfills listed below could manage the District's entire landfill needs for the entire planning period (2013-2027). The landfill that accepts the largest percentage of District waste is the Stony Hollow Landfill in Montgomery County. This landfill could accept 100% of the District's waste for 5.4 of the 15 years in the planning period. Pine Grove and Suburban accept the District's entire disposal tonnage for the entire planning period. These landfills have a life expectancy of 56 and 19.6 years, respectively.

The following table summarizes the regional capacity analysis.

Direct Haul Landfills Used by District	2009 Direct Haul Tons	2009 Direct Haul Cubic Yards	Remaining Capacity in Cubic Yards	Average Daily Waste Receipts (Tons)	Average Daily Waste Receipts (CY)	Years Remaining Based on Average Daily Waste Receipts	% of District Annual Usage (CY)	Projected % of Usage for 15 Years
Cherokee Run	4,801	7,202	2,511,336	639	959	13.0	0.29%	4.30%
Stony Hollow	33,182	49,773	2,026,746	1,249	1,874	5.4	2.46%	36.84%
Rumpke - Hughes Road	25	38	35,277,144	5,103	7,655	15.7	0.00%	0.00%
Suburban	1	2	11,687,682	1,550	2,325	19.6	0.00%	0.00%
Pine Grove	29	44	18,413,491	870	1,305	56.0	0.00%	0.00%
Totals/Average	38,038	57,057	69,916,399	1,882	2,823	22	0.08%	1.22%

Transfer Station Landfill Capacity Analysis from Transfer Station

Ohio EPA provided the District with data that indicated which landfills were used by transfer stations that accepted District waste. The data provided did not indicate the amount of District waste sent to each landfill. The purpose of this part of the capacity analysis is to determine the overall capacity, on average, of the landfills used by transfer stations that accepted District waste. Of the landfills used by in-district transfer stations in 2009, the average life expectancy is 26.5 years.

The following table summarizes the regional capacity analysis.

Transfer Stations Used By District	Landfills Used by District Transfer Station	Remaining Capacity (CY)	Average Daily Waste Receipts (Tons)	Average Daily Waste Receipts (CY)	Years Remaining Based on Average Daily Waste Receipts
Reynolds Avenue	SWACO	39,179,319	2,854	4,281	31.2
WM - Fairborn	Stony Hollow	2,026,746	1,249	1,874	5.4
Montgomery County North and South	Rumpke-Brown County	45,687,000	1,702	2,553	63.6
Delaware County	Crawford County	1,794,385	864	1,296	5.9
Totals/Average	Totals/Average	88,687,450	1,667	2,501	26.5

Table VI-4A Demonstration

The District also completed Table VI-4A even though Ohio EPA could not provide 100% of the landfills used by District generators. The District made assumptions on which landfills were used by the transfer stations listed in Table III-3. These assumptions included the following:

Transfer Stations Used By District	Landfills Used by District Transfer Station
Reynolds Avenue	SWACO
WM - Fairborn	Stony Hollow
Montgomery County North & Montgomery County South	Rumpke-Brown County
Delaware County	Crawford County

The District then completed Table VI-4A for the following landfills:

Facilities Used by District Name and Location (County & State)
Cherokee Run
Stony Hollow
Rumpke-Hughes Road
Suburban
Pine Grove
SWACO
Rumpke-Brown County
Crawford County

Using the projected landfill air space needs of the District for the planning period (2,380,321 cubic yards), 4 of the 8 landfills listed above could manage the District's entire landfill needs for the entire planning period (2013 – 2027). When a landfill was projected to close before the end of the planning period, the District assumed the waste would go to Rumpke's Brown County landfill for this demonstration. This landfill has a life expectancy of 64 years.

Summary of Regional Landfill Capacity Demonstration

Based on the above regional disposal capacity analysis and Table VI-4A analysis, the District has demonstrated that access to landfill capacity is achieved for the entire planning period. The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's solid waste until December 31, 2027.

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 curbside recycling, drop-off recycling, yard waste management, residential collection programs, residential/commercial education and awareness, grants, commercial/industrial programs and other programs are presented in Table VI-5. These programs are discussed in detail in Sections IV and V.

D. Identification and Designation of Facilities

Table VI-6 includes the solid waste facilities identified and current designations. The District continues to support an open market for the collection, transport and disposal of solid waste. As required in Section 3734.53(A)(13)(a) of the Ohio Revised Code, the District is identifying all Ohio licensed and permitted solid waste landfill, transfer and resource recovery facilities and all licensed and permitted out-of-state landfill, transfer and resource recovery facilities. The District is also identifying recycling and composting programs and facilities that are identified in Section III Inventories.

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

E. Authorization Statement to Designate

The Board is authorized to establish facility designations in accordance with Sections 343.013 and 343.014 of the Ohio Revised Code. In addition, facility designation will be established and governed by applicable District rules.

F. Waiver Process for the Use of Undesignated Facilities

The District is authorized to designate solid waste facilities. If the Board elects to designate solid waste facilities, the following waiver process shall be followed by any person, municipal corporation, township or other entity that wishes to deliver waste to a solid waste facility not designated by the District.

In the event that any person, municipal corporation, township or other entity requests permission to use a facility, other than a designated facility, for the disposal of solid waste generated within the District, the entity must submit a written request for a waiver of designation to the Board. The request must contain the following information:

1. Identification of the persons, municipal corporation, township or other entity requesting the waiver;
2. Identification of the generators(s) of the solid waste for which the waiver is requested;
3. Identification of the type and quantity (in tons per year) of solid waste for which the waiver is requested;
4. Identification of the time period(s) for which the waiver is requested;
5. Identification of the disposal facility(s) to be used if the waiver is granted;
6. If the solid waste is to be disposed in an Ohio landfill, a letter from the solid waste management district where the solid waste will be disposed, acknowledging that the activity is consistent with that district's current plan;
7. An estimate of the financial impact to the District that would occur with issuance of the requested waiver; and
8. An explanation of the reason(s) for requesting the waiver.

Upon receipt of the written request containing all of the information listed above, District staff will review it and may request additional information necessary to conduct its review. The Board shall act on a waiver request within ninety days following receipt of the request. The Board may grant the request for a waiver only if the Board determines that:

1. Issuance of the waiver is not inconsistent with projections contained in the District's approved *Plan Update* under Section 3734.53 (A)(6) and (A)(7) of the Ohio Revised Code;
2. Issuance of the waiver will not adversely affect implementation and financing of the District's approved *Plan Update*; and
3. Such other terms and conditions as the Board determines to be necessary or appropriate, including but not limited to payment of a waiver fee to the District because of diminished generation fee collections.

G. Siting Strategy for Facilities

As stated in the last Plan Update, the District is to consider the impact of any new solid waste facility siting on the overall community. District Amended Rule 1-796 presently provides that:

“No person, municipal corporation, township, or other political subdivision shall construct, enlarge, or modify any solid waste transfer, disposal, recycling, or resource recovery facility until general plans and specifications for the proposed improvement have been submitted to and approved by the Clark County, Ohio Board of County Commissioners as complying with the Solid Waste Management Plan of the Clark County Solid Waste Management District.”

“General plans and specifications shall be submitted to the attention of the Clark County Solid Waste Director, c/o the Clark County Commission, 50 East Columbia Street, P.O. Box 2639, Springfield, Ohio, 45501. Such general plans and specifications shall include all information necessary for the Board of Commissioners to evaluate the County level interests identified in the siting review process contained in the District’s Solid Waste Management Plan.”

“General plans and specifications submitted to comply with this Rule shall not include information that is required to determine the proposed facility’s compliance with engineering design criteria or which address issues that do not directly relate to the County level interests identified in the District’s Plan. The submission of any such extraneous material may be cause for the Board to require the developer to submit revised general plans and specifications which contain information that is appropriate for the siting review process.”

“No person, municipal corporation, township, or other political subdivision shall construct, modify or enlarge any solid waste transfer, disposal, recycling, or resource recovery facility that does not comply with the Clark County, Ohio Solid Waste Management Plan, as determined by the Board of Commissioners of Clark County, Ohio.”

It is the Board’s intention to continue the requirement that no one may construct, enlarge or modify a solid waste facility within the District unless and until the developer of the proposed facility has obtained approval of general plans and specifications by the Board.

While the Board has broad discretion to disapprove general plans and specifications for a proposed solid waste facility, it is the intent of the siting review procedure set forth below that the Board shall not approve general plans and specifications for a proposed solid waste facility unless the proposed facility complies with the District’s solid waste management plan as demonstrated by the Board’s determination that the proposed facility is not likely to have any significant adverse impacts on the local community in Clark County. The specific interests of the county level of government that are addressed in the siting review procedure are not intended to

supersede any exercise of local authority over a proposed solid waste facility, but are in addition to any such exercise of local authority.

The District will attempt to approach any facility siting review cooperatively, and will attempt to maintain an open channel of communication with all stakeholders in the process in order to examine relevant issues of concern to the public.

The Board shall have the discretion to approve or disapprove general plans and specifications for the proposed construction, enlargement or modification of a solid waste facility located within the District, based upon the Board's determination of impacts on the local community in Clark County with respect to any of the following County level interests:

- Consistency with the mission, central strategies and projections contained in the District's Solid Waste Management Plan;
- Effects on financing the implementation of the District's Solid Waste Management Plan;
- The local economy (e.g., cost/benefit analysis of waste disposal costs, revenues/ expenditures, job creation etc.);
- Licensing and inspection responsibilities of the Combined Health District;
- Enforcement responsibilities of local law enforcement and emergency response officials;
- Clark County's Comprehensive Plan;
- Availability of needed solid waste services;
- Related infrastructure (e.g., thoroughfares);
- Local related quality of life issues (e.g., noise and litter);
- Local political subdivisions;
- Local property values; and
- Important historic or cultural features.

Applicability

The District will maintain rule making authority to require solid waste facility developers to submit plans and specifications for their proposed facility to the District for review. Developers will be asked to provide information in a format that will facilitate evaluation of the County-level Interests. Information relative to the County-level Interests (listed above) would be appropriate for submission. Developers should not submit information that is not directly related to the District's evaluation of the County-level Interests, such as materials that are required by Ohio EPA concerning the proposed facility's compliance with engineering design criteria, because including such extraneous information in the application for siting approval may delay performance of the siting review process.

Any proposed construction, enlargement or modification of a solid waste facility located within the District is subject to the Clark County siting review process. The siting review process is designed to take approximately 90 – 120 days. However, the District reserves the right to extend the process by appropriate amounts of time (up to 60 days), if necessary, for gathering additional information or if further review and evaluation are needed. The District recommends that the Developer complete the siting review process prior to submitting a “Permit to Install” application to the Ohio EPA so that the developer will have an opportunity to identify and respond to any County level concerns before the developer invests significant time and resources in the Ohio EPA permitting process.

Contact

The Clark County Solid Waste District Director will serve as the primary contact for local governments, developers, regulators and the public.

Responsible for Implementation

The Board will have general responsibility for the completion of any siting review process. The Board retains discretionary power to utilize the District Technical Advisory Council (TAC), Solid Waste Policy Committee (SWPC), staff, other county and/or state officials and/or technical experts for assistance and advice in the process.

Process Outline

Approximate Day	Action
1	Director receives the proposal in a format consistent with the County-level Interests. (If the information provided to the District is not in the format requested, the Developer will be advised to amend the submission to provide the required information and the process will begin when the information is received.)
7	<p>Director provides summary of proposed facility to the Board.</p> <p>The Board determines if a relevant County-level interest exists which requires further review. If they determine that there is not a relevant County-level interest that requires further review, they may elect to stop the siting review at this point.</p> <p>If it is determined that a relevant County-level interest exists which requires further review, the Board will set a time and date (within approximately 10-15 days) to receive comment from all stakeholders in order to identify relevant areas of potential impacts. They may also request written comment from other agencies, staff, TAC, SWPC, political jurisdictions, or experts in</p>

Approximate Day	Action
	the field in order to consider their opinions as well in order to identify the relevant areas of potential impacts.
21	The Board holds public meeting to receive comments from all stakeholders in order to identify relevant areas of potential impacts.
28	<p>The Board, having received comment from all stakeholders, and all others requested, identifies a list of relevant areas of potential impacts for further evaluation.</p> <p>The Board directs the Director to gather information and initiate an evaluation of each relevant area of potential impacts.</p> <p>The Board may also request information and opinions from other appropriate agencies, staff, or experts as well.</p>
90	Director presents all findings to the Board for their review. (Director may request an extension at this point, if necessary to gather more information before making a final presentation of the findings.) The Board sets a date and time (approximately 7-10 days) to make a determination.
97	<p>The Board, based on information presented by all stakeholders, may choose, at this point, to determine that no relevant County-level concern regarding relevant potential impacts of the proposed development exists and the process would be complete.</p> <p>If the Board determines that County-level concerns regarding relevant potential impacts may constitute impacts by the proposed facility that are significant and adverse to the local community, the Board will make a preliminary determination of noncompliance with the Plan and notify the Developer. They will also set a date and time for a public meeting (approximately 20-30 days) in order to make a final determination.</p>
120	<p>If the Board determines that the relevant potential impacts do not constitute impacts by the proposed facility that are significant and adverse to the local community, then the Board may determine that the facility complies with the Solid Waste Management Plan.</p> <p>If the Board has determined that County-level concerns regarding relevant potential impacts are likely to result in significant adverse impacts on the local community in Clark County, the Board will conduct the most appropriate course of action, including but not limited to:</p> <ol style="list-style-type: none"> 1. Request an extension and authorize further study (this must be agreed upon by the Developer as well); 2. Negotiate with the proposed facility Developer; or

Approximate Day	Action
	<p>3. Explicitly disapprove of the site for the development.</p> <p>Note: If (for any reason) changes are made to the proposal after the facility has been approved by the Board, the Board reserves the right for further evaluation and reconsideration subject to the Process Outline described here.</p>

H. Contingencies for Capacity Assurance and District Program Implementation

The District will implement the contingency plan outlined in this section of the *Plan Update* if there is an interruption in composting, recycling, transfer facility or landfill capacity for a period of time that would be detrimental to the health and safety of District residents. If the Board determines there is a public health and safety threat due to an interruption in landfill capacity, the following will be implemented.

1. The District will conduct a survey to determine the solid waste disposal needs for District political jurisdictions, commercial, industrial and institutional companies/facilities. If, after completing the survey, the District Coordinator determines that it is in the best interests of the political jurisdictions, commercial facilities, industries and institutions to allow them the opportunity to bid their waste to the company with the best service and price, the District Coordinator will make the recommendation to the Board to take no further action. If the Board receives input from the surveys that some action is needed, then the following should be considered as part of the management contingency for District solid waste.
 - a. Prepare a bid specification to solicit bids from regional landfills to accept District solid waste.
 - b. Develop a District-wide disposal cooperative with local political jurisdictions to obtain a fixed disposal price for a specified term.
 - c. Initiate action to site either a public or private solid waste transfer or solid waste disposal facility.
2. After considering the results of the survey, the Board of Director's may elect to pursue any of the following:
 - a. Prepare a bid specification to solicit bids from regional landfills to accept District solid waste.
 - b. Develop a District-wide disposal cooperative with local political jurisdictions to obtain a fixed disposal price for a specified term.
 - c. Initiate action to site either a public or private solid waste transfer or solid waste disposal facility.

The District Coordinator 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. Additionally, the District will develop an alternative

source of revenue if there is an interruption in landfill capacity (i.e., rates and charges, contract fees). The Board will direct the District Coordinator to develop alternatives for revenue generation to assure 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 Incinerated	Ash Landfilled	YW Land Application	MSW Composting	Landfilling
2009	215,258	0	215,258	76,430	60,786	40,004	0	0	0	0	98,824
2010	213,310	0	213,310	75,264	60,822	40,028	0	0	0	0	98,018
2011	212,991	0	212,991	74,124	60,859	40,052	0	0	0	0	98,815
2012	212,702	0	212,702	73,007	60,895	40,076	0	0	0	0	99,618
2013	212,442	0	212,442	71,915	60,932	40,100	0	0	0	0	100,427
2014	212,211	0	212,211	70,845	60,969	40,124	0	0	0	0	101,242
2015	212,009	0	212,009	69,838	61,005	40,148	0	0	0	0	102,023
2016	211,835	0	211,835	68,855	61,042	40,172	0	0	0	0	102,808
2017	211,689	0	211,689	67,896	61,078	40,196	0	0	0	0	103,596
2018	211,569	0	211,569	66,961	61,115	40,221	0	0	0	0	104,388
2019	211,477	0	211,477	66,097	61,152	40,245	0	0	0	0	105,135
2020	211,410	0	211,410	65,264	61,188	40,269	0	0	0	0	105,878
2021	211,370	0	211,370	64,461	61,225	40,293	0	0	0	0	106,615
2022	211,355	0	211,355	63,690	61,262	40,317	0	0	0	0	107,347
2023	211,365	0	211,365	62,951	61,299	40,341	0	0	0	0	108,072
2024	211,400	0	211,400	62,245	61,335	40,366	0	0	0	0	108,789
2025	211,459	0	211,459	61,574	61,372	40,390	0	0	0	0	109,496
2026	211,542	0	211,542	60,937	61,409	40,414	0	0	0	0	110,191
2027	211,649	0	211,649	60,337	61,446	40,438	0	0	0	0	110,873

Source(s) of information:

Tons of SW Generated from Table V-4.
 Tons of SW Waste Reduction from Table V-5 and V-6.
 Tons of SW Transferred from Table III-3.
 Tons of SW Composted from Table V-5.
 Tons of Yard Waste Composting from Table V-5.

Sample calculations:

2009 Net Tons to be Managed by SWMD = Tons of SW Generated - Tons Source Reduced
 215,258=215,258 - 0

2010 Transfer Capacity Required = 2009 Tons x (1.06%)(same increase as population from table V-1)
 60,822 = 60,786 x 1.006

2009 Landfilling Required = Net Tons to be Managed by SWMD - Recycling - Yard Waste Composting-(Gross Incineration - Ash Landfilled)
 98,824 = 215,258 - 76,430 - 40,004 - 0 - 0

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

Year	Tons Generated	Management Method in TPY				
		Source Reduction & Recycling	Incineration	Composting	Landfilling	Ash Disposal
2009	157,009	20,354	0	40,004	96,651	0
2010	156,282	20,366	0	40,028	95,888	0
2011	157,157	20,378	0	40,052	96,727	0
2012	158,038	20,390	0	40,076	97,571	0
2013	158,923	20,403	0	40,100	98,420	0
2014	159,813	20,415	0	40,124	99,274	0
2015	160,709	20,467	0	40,148	100,094	0
2016	161,609	20,521	0	40,172	100,916	0
2017	162,514	20,577	0	40,196	101,741	0
2018	163,425	20,635	0	40,221	102,569	0
2019	164,341	20,744	0	40,245	103,351	0
2020	165,261	20,864	0	40,269	104,129	0
2021	166,187	20,993	0	40,293	104,901	0
2022	167,118	21,135	0	40,317	105,666	0
2023	168,054	21,290	0	40,341	106,423	0
2024	168,996	21,459	0	40,366	107,172	0
2025	169,943	21,643	0	40,390	107,909	0
2026	170,895	21,845	0	40,414	108,635	0
2027	171,852	22,066	0	40,438	109,347	0

Source(s) of information:

Tons of Generated is from Table V-2

Source Reduction & Recycling and Composting is from Table V-5

2009 Sample calculations:

Landfilling = Tons Generated - Source Reduction & Recycling - Composting

96,651 = 157,009 - 20,354 - 40,004

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

Year	Tons Generated	Management Method in TPY				
		Source Reduction & Recycling	Incineration Waste Reduction	MSW Composting	Landfilling	Ash Disposal
2009	58,114	56,076	0	0	2,038	0
2010	56,894	54,898	0	0	1,995	0
2011	55,699	53,746	0	0	1,953	0
2012	54,529	52,617	0	0	1,912	0
2013	53,384	51,512	0	0	1,872	0
2014	52,263	50,430	0	0	1,833	0
2015	51,165	49,371	0	0	1,794	0
2016	50,091	48,334	0	0	1,757	0
2017	49,039	47,319	0	0	1,720	0
2018	48,009	46,326	0	0	1,684	0
2019	47,001	45,353	0	0	1,648	0
2020	46,014	44,400	0	0	1,614	0
2021	45,048	43,468	0	0	1,580	0
2022	44,102	42,555	0	0	1,547	0
2023	43,176	41,661	0	0	1,514	0
2024	42,269	40,787	0	0	1,482	0
2025	41,381	39,930	0	0	1,451	0
2026	40,512	39,092	0	0	1,421	0
2027	39,662	38,271	0	0	1,391	0

Source(s) of information:

Tons Generated is from Table V-4

Source Reduction & Recycling is from Table V-6

Sample calculations (2009):

Landfilling = Tons Generated - Source Reduction & Recycling - Incineration Waste Reduction - MSW Composting

$$2,038 = 58,114 - 56,076 - 0 - 0$$

Table VI-4A
Waste Management Method: Landfill

Facilities Used by District	Average Daily Waste (Tons)	Remaining Capacity		Airspace (cubic yds)		Tons of District SW Managed																			
		Years	Data Source	Gross	Net	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Cherokee Run	639	13	OEPA	2,511,336	1,255,668	4,801	4,762	4,801	4,840	4,879	4,918	4,956	4,995	5,033	5,071	5,108	5,144	0	0	0	0	0	0	0	0
Stony Hollow	1,874	5	OEPA	2,026,746	1,013,373	34,801	34,517	34,798	35,081	35,366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumple - Hughes Road	5,103	16	OEPA	35,277,144	17,638,572	25	25	25	25	25	26	26	26	26	26	27	27	27	27	27	27	28	28	28	0
Suburban	2,325	20	OEPA	11,687,682	5,843,841	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pine Grove	870	56	OEPA	18,413,491	9,206,746	29	29	29	29	29	30	30	30	30	31	31	31	31	31	32	32	32	32	32	33
SWACO	2,854	31.2	OEPA	39,179,319	19,569,660	100	99	100	101	102	102	103	104	105	106	106	107	108	109	109	109	110	111	112	112
Rumple-Brown County	1,702	63.6	OEPA	45,687,000	22,843,500	59,066	58,584	59,061	59,541	60,024	96,164	96,907	97,652	98,401	99,153	99,862	100,568	106,448	107,179	107,903	108,618	109,324	110,046	110,728	110,728
Crawford County	864	5.9	OEPA	1,794,385	897,193	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Total				156,577,103	78,288,552	98,824	98,018	98,815	99,618	100,427	101,242	102,023	102,808	103,596	104,388	105,135	105,878	106,615	107,347	108,072	108,789	109,496	110,191	110,873	

Note: Projected value for each transfer facility is calculated as a ratio based on the 2009 distribution.

Source(s) of information: OEPA Facility Data Report for 2009

Total waste landfilled is from Tables III-1 - III-3.

Projected waste landfilled is from Table VI-1.

Sample calculation:

$$\text{Cherokee Run 2010} = \frac{\text{Cherokee Run 2009}}{\text{Total 2009}} \times \text{Total 2010}$$

$$4,762 = \frac{4,801}{98,824} \times 98,018$$

Table VI-4B
Waste Management Method: Incinerator

Facilities Used by District Name and Location (County & State)	Average Daily Waste (Tons)	Remaining Capacity		Airspace (cubic yds)		Tons of District SW Managed																		
		Years	Data Source	Gross	Net	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
						N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

N/A=Not Available

Table VI-4C
Waste Management Method: Transfer

Facilities Used by District	Tons of District SW Managed																			
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Reynolds Avenue	100	100	100	100	100	100	100	100	100	101	101	101	101	101	101	101	101	101	101	101
WM - Fairborn	1,619	1,620	1,621	1,622	1,623	1,624	1,625	1,626	1,627	1,628	1,629	1,630	1,631	1,632	1,633	1,634	1,635	1,636	1,637	1,637
Montgomery County North	55,327	55,360	55,393	55,427	55,460	55,493	55,526	55,560	55,593	55,626	55,660	55,693	55,727	55,760	55,794	55,827	55,861	55,894	55,928	55,928
Montgomery County South	3,739	3,741	3,743	3,746	3,748	3,750	3,752	3,755	3,757	3,759	3,761	3,764	3,766	3,768	3,771	3,773	3,775	3,777	3,780	3,780
Delaware County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	60,766	60,822	60,859	60,895	60,932	60,969	61,005	61,042	61,078	61,115	61,152	61,188	61,225	61,262	61,299	61,335	61,372	61,409	61,446	61,446

Note: Projected value for each transfer facility is calculated as a ratio based on the 2009 distribution.

Source(s) of information:

The actual waste transferred in 2009 is from Table III-3.

Projected transferred waste is from Table VI-1.

Sample calculation:

$$\text{WM Fairborn Transfer 2010} = \frac{\text{WM Fairborn Transfer 2009}}{\text{Total 2009}} \times \text{Total 2010}$$

$$1,620 = \frac{1,619}{60,811} \times 60,847$$

Table VI-4D
Waste Management Method: Recycling

Facilities Used by District Name	Tons of District SW Managed																		
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Clark County Solid Waste Management District Rural Recycling Station 149 Chillicothe St. South Charleston, Ohio	383	377	371	366	360	355	350	345	340	336	331	327	323	319	315	312	309	305	302
ABITBI Paper Retrievers 25 Various locations 995 Marion Road Columbus, Ohio 43207	157	154	152	150	147	145	143	141	139	137	135	134	132	130	129	127	126	125	124
Best Buy 1709 N Bechtel Ave Buckeye Diamond Logistic 15 Sprague Rd., P.O. Box E South Charleston, OH 45368	165	162	160	158	155	153	151	149	147	145	143	141	139	137	136	134	133	132	130
CCWMD Recycling Center/Specialty Recycling 1602 W. Main St. Springfield, OH	139	137	135	133	131	129	127	125	123	122	120	119	117	116	114	113	112	111	110
Green on Tire 721 W Columbia	23	23	22	22	22	21	21	21	20	20	20	20	19	19	19	19	19	18	18
Liberty Tire 3041 Jackson Pike Grove City, OH	419	413	406	400	394	388	383	377	372	367	362	358	353	349	345	341	338	334	331
Monro Muller and Brake 10 W. North Street Planet Aid	20	20	19	19	19	19	18	18	18	18	17	17	17	17	16	16	16	16	16
21 locations in Clark County 4720 Groves Rd. Columbus, OH 43232	28	28	27	27	26	26	26	25	25	25	24	24	24	23	23	23	23	22	22
Wal-Mart 2100 N. Bechtel Avenue WMI MRF	817	805	792	780	769	757	747	736	726	716	707	698	689	681	673	665	658	651	645
1700 N. Broad St. Fairborn, OH 45324	3,252	3,202	3,154	3,106	3,060	3,014	2,972	2,930	2,889	2,849	2,812	2,777	2,743	2,710	2,679	2,648	2,620	2,593	2,567
Rumpke Recycling MRF 1300 E. Monument Ave. Dayton, OH	1,728	1,701	1,675	1,650	1,626	1,601	1,579	1,556	1,535	1,514	1,494	1,475	1,457	1,440	1,423	1,407	1,392	1,377	1,364
Buckeye Wood 4700 Wilmington Pike Dayton, OH 45440	1,013	998	982	968	953	939	926	913	900	887	876	865	854	844	834	825	816	808	800
Newark Recycled Fibers 2601 East River Road Moraine, OH	1,796	1,769	1,742	1,716	1,690	1,665	1,641	1,618	1,595	1,573	1,553	1,534	1,515	1,497	1,479	1,463	1,447	1,432	1,418
Springfield Recycling LLC 1620 E Pleasant St Staker Metal Alloys	875	862	849	836	823	811	800	788	777	767	757	747	738	729	721	713	705	698	691
1075 N. James St. Springfield, OH 45503	5,050	4,973	4,898	4,824	4,752	4,681	4,614	4,550	4,486	4,424	4,367	4,312	4,259	4,208	4,159	4,113	4,068	4,026	3,987
Allied Waste Systems Industrial generator reported waste reduction to unidentified processors/brokers	419	413	406	400	394	388	383	377	372	367	362	358	353	349	345	341	338	334	331
CCWMD HHW Collection Event CCWMD Free TV Recycling	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6
Tonnage from other residential, commercial, and industrial recycling initiatives	140	138	136	134	132	130	128	126	124	123	121	120	118	117	115	114	113	112	111
	2,909	2,865	2,821	2,779	2,737	2,696	2,658	2,621	2,584	2,549	2,516	2,484	2,454	2,424	2,396	2,369	2,344	2,319	2,297
Total	76,430	75,264	74,124	73,007	71,915	70,845	69,838	68,855	67,896	66,961	66,097	65,264	64,461	63,690	62,951	62,245	61,574	60,937	60,337

Note: Projected value for each Recycling Facility is calculated as a ratio based on the 2009 distribution

Source(s) of information:
Individual facility data is from Table III-5
Projected recycling total is from Table VI-1.

Sample calculation:

$$2010 \text{ Clark County Solid Waste} = \frac{2009 \text{ Clark County Solid Waste}}{2009 \text{ Total}} \times \text{Total 2010}$$

$$377 = \frac{383}{76,430} \times 75,264$$

Table VI-4E
Waste Management Method: Composting

Facilities Used by District	County	State	Tons of District SW Managed																		
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
C&S Tree Services	Clark	Ohio	30,743	30,761	30,780	30,798	30,817	30,835	30,854	30,872	30,891	30,909	30,928	30,947	30,965	30,984	31,002	31,021	31,039	31,058	31,077
City of Springfield	Clark	Ohio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Lawmasters	Clark	Ohio	168	168	168	168	168	169	169	169	169	169	169	169	169	169	169	170	170	170	170
Mad River Topsoil	Clark	Ohio	2,499	2,500	2,502	2,504	2,505	2,507	2,508	2,510	2,511	2,513	2,514	2,516	2,517	2,519	2,520	2,522	2,523	2,525	2,526
Springfield Township Composting Facility	Clark	Ohio	2,404	2,405	2,407	2,408	2,410	2,411	2,413	2,414	2,416	2,417	2,418	2,420	2,421	2,423	2,424	2,426	2,427	2,429	2,430
German Township	Clark	Ohio	125	125	125	125	125	125	125	126	126	126	126	126	126	126	126	126	126	126	126
Moorfield Township	Clark	Ohio	1,003	1,004	1,004	1,005	1,005	1,006	1,007	1,007	1,008	1,008	1,009	1,010	1,010	1,011	1,011	1,012	1,013	1,013	1,014
New Reid Park	Clark	Ohio	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Snyder Park	Clark	Ohio	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Stuebaker Nursery	Clark	Ohio	1,080	1,081	1,081	1,082	1,083	1,083	1,084	1,085	1,085	1,086	1,086	1,087	1,088	1,088	1,089	1,090	1,090	1,091	1,092
Rumpke MRF	Montgomery	Ohio	1,410	1,411	1,412	1,413	1,413	1,414	1,415	1,416	1,417	1,418	1,418	1,419	1,420	1,421	1,422	1,423	1,424	1,424	1,425
Vince Refuse	Clark	Ohio	150	150	150	150	150	150	151	151	151	151	151	151	151	151	151	151	151	152	152
WMI MRF	Greene	Ohio	391	391	391	392	392	392	392	393	393	393	393	394	394	394	394	395	395	395	395
Total			40,004	40,028	40,052	40,076	40,100	40,124	40,148	40,172	40,196	40,221	40,245	40,269	40,293	40,317	40,341	40,366	40,390	40,414	40,438

Note: Projected value for each Composting Facility is calculated as a ratio based on the 2009 distribution

Source(s) of information:

Individual facility data is from Table III-6
Projected compost tonnage is from Table VI-1.

Sample calculations:

$$\text{C \& S Tree Services 2010} = \frac{\text{C \& S Tree Services 2009}}{\text{Total 2009}} \times \text{Total 2010}$$

$$30,761 = \frac{30,743}{40,004} \times 40,028$$

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Residential Recycling and Waste Reduction Programs					
Clark County Specialty Recycling Center	CC-1	District-wide	In 2007, the District opened a specialty drive thru recycling center where residents could recycle difficult to recycle items on a weekly basis. The facility also serves as administrative offices and a home base for all programs. Hours are Thursdays: 9 am - noon and 4 pm - 6 pm; 1st Saturday of every month: 9 am – noon. The center accepts latex paint, used tires, fluorescent bulbs, HID bulbs, UV lamps, NICAD batteries, cell phones, TVs and monitors, electronics, confidential material to be shredded, and appliances (including refrigerators). Composting bins may also be purchased at the collection center.	2007	Ongoing
Curbside Recycling Program	CC-2	District-wide	The District will continue to work with political subdivisions in the county to promote and support curbside recycling. Each community collects at a minimum aluminum and steel cans, glass, newspaper, cardboard, magazines, mixed paper, and plastic #1-2.	Ongoing	Ongoing
Strategy 1: For any planned or existing curbside recycling program that ceases to operate during the planning period, the District will implement the following initiatives>			Initiative 1-1: Meet with the operator of the curbside program to determine cause of program elimination.	As needed	As needed
			Initiative 1-2: Offer any assistance permitted under this Plan Update to re-start the program.	As needed	As needed
Strategy 2: In order to support local governments to take the necessary steps to contract for curbside waste and recycling during this planning period, an important strategy will be for the District to stimulate demand among residents for contracted collection services. This strategy may involve the following initiatives>			Initiative 2-1: Conduct stakeholder meetings with community leadership including township trustees and public service personnel, residents, and haulers to understand the issues preventing contracting of curbside services and to determine possible solutions.	2013	2017
			Initiative 2-2: Conduct awareness campaigns to targeted communities to communicate the value of contracting for waste and recyclables collection. This effort may include distribution of educational materials, targeted media promotions, billboards, bus signs and/or social media.	2013	2017
			Initiative 2-3: Evaluate the options of conducting regional cooperative contracts for multiple smaller villages and cities for purchasing curbside waste and recycling services.	As needed	As needed
			Initiative 2-4: Promote new Curbside Recycling Grant Program to all communities annually. This may be done through presentations at the Township Association Meetings, or through direct communications with targeted communities.	2013	2017
			Initiative 2-5: Conduct stakeholder meetings with community leadership including township trustees and public service personnel, residents, and haulers to understand the issues preventing contracting of curbside services and to determine possible solutions.	2013	2017
			Initiative 2-6: Survey residents from targeted political subdivisions on their willingness to support the community in contracting with a single waste hauler to provide non-subscription waste curbside waste and recycling services with bulky item pick-up.	As needed	As needed
			Initiative 2-7: Work with communities to develop suitable bid specifications for contracting for non-subscription curbside waste and recycling services.	As needed	As needed
			Initiative 2-8: Create a cost of service score board by community to educate residents on how their services compare to other communities inside and outside the District. The score board would include what residents pay per household per month for curbside solid waste services. The District may present the score board via its website, newspaper ads or other media mechanisms.	2013	2017

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Curbside Recycling Program	CC-2	Village of Tremont	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Catawba Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Cliffon Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Donnelsville Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Enon Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	North Hampton Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	South Charleston Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	South Vienna Village	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Springfield City	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Tremont City	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Bethel Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	German Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Green Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Harmony Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Madison Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Mad River Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Moorefield Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Pike Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Curbside Recycling Program	CC-2	Springfield Township	Curbside Recycling Program (see description above).	Ongoing	Ongoing
Contracting/Franchising Waste Collection Program	CC-3	District-wide	The District realizes the many benefits of franchising and contracting to provide waste collection services. The main strategy of this program is to facilitate contracting options for waste collection and recycling in Clark County.	Ongoing	Ongoing
Drop-Off Recycling Program	CC-4	District-wide	<p>The drop-off recycling program is expected to continue throughout the planning period. The District currently hosts three locations. Drop-off locations are full-time, full-service, and publicly available. This means that each location is open to the public at least 40 hours per week and accepts at least aluminum/bi-metal cans, plastic #1 and #2, glass, mixed paper, aseptic containers, and cardboard. The West Station also accepts books.</p> <p>Each station consists of 17 cubic yard roll-off boxes. The District transports commingled materials to the WMI MRF and cardboard to the District Recycling Center.</p> <p>The District will continue to advertise limited material drop-off locations such as Abitibi paper recycling drop-offs on its website and in printed brochures.</p>	Ongoing	Ongoing

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Strategy 1: The District will consider the options to convert the current drop-off program which utilizes roll off boxes and a truck operated by District staff, to compaction and expand the sites to underserved areas of the County.			Initiative 1-1: Evaluate the cost of operating the current drop-off program including the cost of capital, operational costs, labor, maintenance and other costs as well as revenue.	2013	2013
			Initiative 1-2: Evaluate the cost of operating a compaction system with expanded sites including the cost of capital, operational costs, labor, maintenance and other costs as well as revenue.	2013	2013
			Initiative 1-3: Evaluate private sector costs of operating a compaction collection system with expanded sites and will compare to the cost of a District operation in order to determine the best approach.	2013	2013
			Initiative 1-4: The District, before implementing, enhancing or changing any recycling drop-off program, will first make sure that the initiative is cost effective, and sustainable.	2013	2013
Drop-Off Recycling Program	CC-4	North Recycling Station, Clark County	Drop-Off Recycling Program (see description above).	2007	Ongoing
Drop-Off Recycling Program	CC-4	West Recycling Station, Clark County	Drop-Off Recycling Program (see description above).	2007	Ongoing
Drop-Off Recycling Program	CC-4	Eastern Clark County (Rural Area)	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Yard Waste Management Program	CC-5	District-wide	Composting will continue to be promoted by conducting workshops at related events and offering backyard composting bins for sale at wholesale cost. Information about composting will also be available in the District's "Reduce, Reuse, Recycle," annual brochure.	Ongoing	Ongoing
Household Hazardous Waste (HHW) Collection Program	CC-6	District-wide	Biannual HHW waste collection events will continue to be offered to residents. Over 38,000 pounds of HHW was collected from more than 500 cars in 2009. Latex paint is accepted for a small fee. Approximately 6 tons of latex were collected. HHW is also accepted at the District Recycling Center.	2007	Ongoing
Strategy 1: In addition to an annual free collection, the District will evaluate the opportunity to collect HHW from residents on a more permanent basis. This evaluation will include the following:			Initiative 1-1: Determine the costs of providing weekly, monthly, or quarterly collection at the Specialty Recycling Center and charge residents a price per pound for proper management.	2014	2014
Electronics Collection	CC-7	District-wide	Electronics are accepted from residents at the District Recycling Center. Televisions and monitors are accepted for \$0.10 per pound.	Ongoing	Ongoing
Scrap Tire Collection Program	CC-8	District-wide	Scrap tires are accepted from residents at the District Recycling Center for a \$0.10/tire. Scrap tires will also continue to be collected through the City of Springfield's Reserve a Roll-Off program and during city clean-up activities.	2007	Ongoing
Government Office Paper Recycling	CC-9	District-wide	County offices in the District will continue to be supplied with recycling containers for paper and cardboard. Materials will be taken to the District Recycling Center where they will be baled and sold. The program saves the county on disposal costs and is self sustaining.	Ongoing	Ongoing
Business Paper Recycling	CC-10	District-wide	Many businesses do not generate enough paper and/or cardboard to justify a separate recycling bin at their location. The District continues to promote to businesses the opportunity to use one of the District's three recycling drop-off stations to recycle paper and cardboard. This program generates revenue for the District while reducing disposal costs for businesses.	Ongoing	Ongoing

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Education and Awareness Program	CC-11	District-wide	<p>The District offered a variety of education, awareness and promotional services to residents and businesses in the reference year (2009). These included:</p> <p>Close the Loop Campaign, Model Communities, Pay As You Throw (PAYT) Promotion, School Support and Public Education and Outreach. Details of these initiatives can be found in Section IV and V.</p> <p>The District reserves the right to conduct different program promotions and initiatives than those listed in Section IV based on current events, programs and policies of the District in the new planning period.</p>	Ongoing	Ongoing
Business Waste Reduction Assistance Program (BWRAP)	CC-12	District-wide	<p>Businesses and institutions will continue to be provided with direct assistance to employ waste reduction programs upon request. The direct assistance portion of BWRAP continues to be in high-demand and produce favorable results.</p> <p>Businesses will also continue to have access to information pertaining to grants/loans, waste reduction, recycling, and purchasing recycled-content products on the District's website. Web links to materials exchange programs will also continue to be posted on the website.</p>	Ongoing	Ongoing
Litter Prevention/Clean-Up Programs	CC-13	District-wide	<p>The District will continue to manage a variety of litter prevention/clean-up programs.</p> <p>The Adopt-a-Road and Adopt-a-Spot programs continue to be included in the District's anti-littering campaign. In 2009, 94 miles and 18 spots were cleaned up. The District will continue to sponsor the annual Earth Day Clean-Up, during which 750 volunteers cleaned up over 1,000 bags of litter in 2009.</p> <p>The District will continue funding a full-time deputy to investigate and enforce litter and open-dumping laws. The deputy will also continue to manage PRIDE activities. PRIDE (Providing Responsibilities for Inmates through Duties for the Environment) utilizes inmates to clean-up public areas, provide support for District special events, and provide labor for the Recycling Center.</p> <p>The 24-hour hotline to report litter and illegal dumping will continue to be available. Information received on this line is investigated by a County Environmental Enforcement Deputy. In 2009, 301 complaints were received on the line, resulting in 25 littering arrests and 226 dumpsite cleanups.</p>	Ongoing	Ongoing
Health Department Funding	CC-14	District-wide	<p>The District will continue to support the combined Health District with funding for sanitarians to monitor facilities and water wells. Funding will also provide the Health District with resources to enforce open-dumping laws and respond to solid waste management-related health issues.</p>	Ongoing	Ongoing
Legal and Consulting	CC-15	District-wide	<p>The District will continue to allow for annual legal and technical assistance from lawyers and consultants.</p>	Ongoing	Ongoing

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Other Facilities	CC-16	District-wide	Facilities identified in Section IV that support or are active in the management of solid waste in the District will continue throughout the planning period except for the North Montgomery County Transfer Facility. This facility is scheduled to be closed in 2013.	Ongoing	Ongoing
Strategy 1: Conduct a study on transfer stations during the planning period. Based on results, the District reserves the right to develop new strategies and initiatives including but not limited to developing an in-district transfer station throughout the planning period.			Initiative 1-1: Evaluate current economics of solid waste flow in County (cost per ton managed) as compared to other counties with landfills and or transfer stations	2014	2014
			Initiative 1-2: Evaluate costs of operating a transfer station and the overall costs per ton managed.	2014	2014
			Initiative 1-3: Determine the feasibility of a private owned and operated, county owned and operated, and county owned and privately operated transfer station based on economic analysis above.	2014	2014
Curbside Recycling Grants	CC-17	District-wide	The District will provide one-time economic incentive grants for political subdivisions to either start new programs or enhance existing programs that assist the District with maintaining or exceeding its goals as written in this Plan Update.	2016	2017
Food Waste Management	CC-18	District-wide	Paygro is a Class II licensed composting facility and may accept food waste. They have conducted successful pilot studies with the Ohio Grocer's Association and the Ohio DNR and Ohio EPA. The District has also assisted Paygro in obtaining two Market Development Grants that have enabled them to purchase equipment to collect and process food waste specifically from retail establishments and institutions.	2009	Ongoing
Strategy 1: The District is committed to growing the management of food waste and other organic waste materials in the County. To accomplish this goal, the following initiatives will be conducted throughout the planning period.			Initiative 1-1: The District will work with Paygro to promote food waste recycling opportunities to local businesses and institutions. This could include education and awareness activities, presentations, workshops, mailers, advertisements and technical assistance to businesses and institutions.	2013	2027
			Initiative 1-2: The District will evaluate other solid waste district initiatives in the management of food waste to gather new ideas.	2014	2014
			Initiative 1-3: The District will work with Paygro to obtain additional grants to improve or add to the capabilities of Paygro to collect, process and manage food waste and other organic wastes.	2013	2027
			Initiative 1-4: For any community that applies for the District's Curbside Recycling Grant Program, the District will promote the collection of food waste and other organics as a part of the grant implementation.	2013	2017
			Initiative 1-5: The District will evaluate whether the anaerobic digestion technology currently being implemented across Ohio would be feasible for any of the District's waste water treatment plants.	2015	2015

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

Name of Facility, Strategy, Program or Activity	Program Number	Location (SWMD, County, City/Township)	Description of Program/Facility	Approximate Date When the Following Will Take Place	
				Operations Begin	Operations Cease
Disaster Debris Assistance	CC-19	District-wide	<p>Since 2010, the District has worked cooperatively with the Clark County Emergency Management Agency to develop a Disaster Debris Management Plan that was adopted in 2011. The Plan identifies the services and needs of the local jurisdictions in the event a debris management emergency or a solid waste management service emergency exists. The District will act as Debris Coordinator as part of the Emergency Operation Command in collaboration with the county EMA when called upon to do so in order to implement this plan.</p> <p>If there is a need for emergency Clark County Disaster Debris funding, the District may allocate up to 5% of excess District funding or up to \$15,000). The District, EMA and the County will make every effort to seek reimbursement from local, state and federal funding sources.</p>	2010	Ongoing
Operating Contingency	n/a	District-wide	This program will not continue into the planning period. Any additional funding required will be obtained from the District's excess fund balance. The District Board will determine when and how excess funds will be used to implement the Plan Update.	2007	2007
Recycling Contingency	n/a	District-wide	This program will not continue into the planning period. Any additional funding required will be obtained from the District's excess fund balance. The District Board will determine when and how excess funds will be used to implement the Plan Update.	2007	2007

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

Facilities Identified	
Landfills	
Name	Location (SWMD)
Ohio EPA permitted and licensed solid waste landfills	
Transfer Facilities	
Ohio EPA permitted and licensed solid waste transfer facilities.	
Recycling Facilities	
Recycling Facilities presented in Section III of this Plan.	
Designated Facilities	
None	None

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

A. Compliance with Goal #2

Convenient opportunities to recycle are important to maintaining and improving recycling rates. It is desirable to provide convenient recycling opportunities throughout the District using a combination of curbside recycling and drop-off programs. The District's current recycling programs and their locations within the District are serving the needs of the District. These programs do not, however, meet the 90% access goal (Goal #1) of the 1995 State Plan.

The District annually conducts a comprehensive surveying system that has consistently provided high quality waste reduction data over the last several years. This data, coupled with District waste generation, has resulted in the District achieving a 25% or greater waste reduction rate in the residential/commercial sector and a 50% or greater waste reduction rate in the industrial sector during the reference year of this *Plan Update* including previous plan implementation years of the current solid waste plan. Therefore, the District is choosing to show compliance with Goal #2 instead of Goal #1. As stated in the Ohio EPA Format, Goal #2 requires solid waste districts to:

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

B. Demonstration of Compliance with Goal #2

Since the District's *Plan Update* is based on Goal #2, plan format tables VII-1 and VII-2 are not applicable and have been omitted.

In 2009, approximately 38% of the District's residential/commercial waste stream was recycled including yard waste (Table VII-3). This equates in a pounds per person per day (PPPD) rate of 2.37.

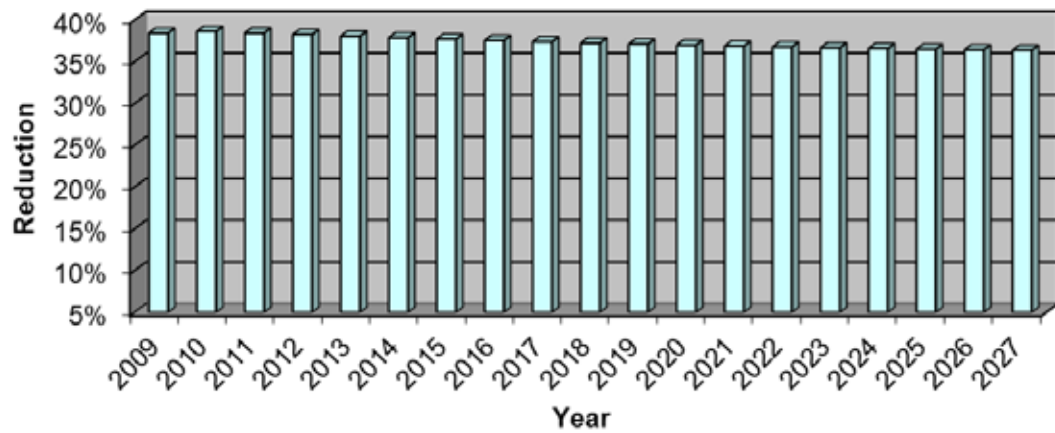
Approximately 67% of the solid waste recycled by the residential/commercial sector is residential. This includes the curbside and drop-off recycling programs, yard waste management and household hazardous waste collection programs. Solid waste recycled by the commercial businesses is approximately 33% of the waste recycled within the residential/commercial sector. Many commercial businesses have a commitment to recycling and have determined the economic benefits of recycling, in particular cardboard, paper, wood and metals.

The District is committed to maintaining or exceeding the state goals for recycling and waste reduction. The programs presented in Section V and included in Table VI-5 illustrate the District’s plans to continue to increase the amount of recyclables and materials that are recycled.

The District will continue to exceed the 25% waste reduction rate throughout the planning period based on the District’s projections for successful recycling programs and waste generation within the District. In 2027, the final year of the planning period, the District anticipates a 36% waste reduction rate for the residential/commercial section. This equates in a pounds per person per day (PPPD) rate of 2.45.

The following graph depicts the residential/commercial sector waste reduction rate throughout the planning period.

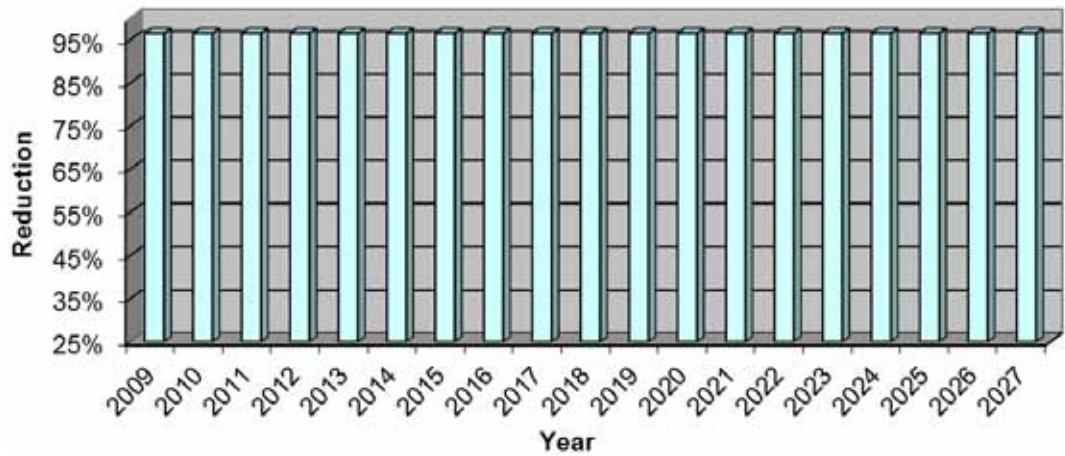
Residential/Commercial Waste Reduction Percentage (2009 – 2027)



In 2009, 96% of industrial solid waste was recycled (Table VII-4). This equates in a pounds per person per day (PPPD) rate of 2.20. In 2027, the final year of the planning period, the District anticipates a 96% waste reduction rate for the industrial sector. This equates in a pounds per person per day (PPPD) rate of 1.50.

The following graph depicts the industrial sector waste reduction rate throughout the planning period.

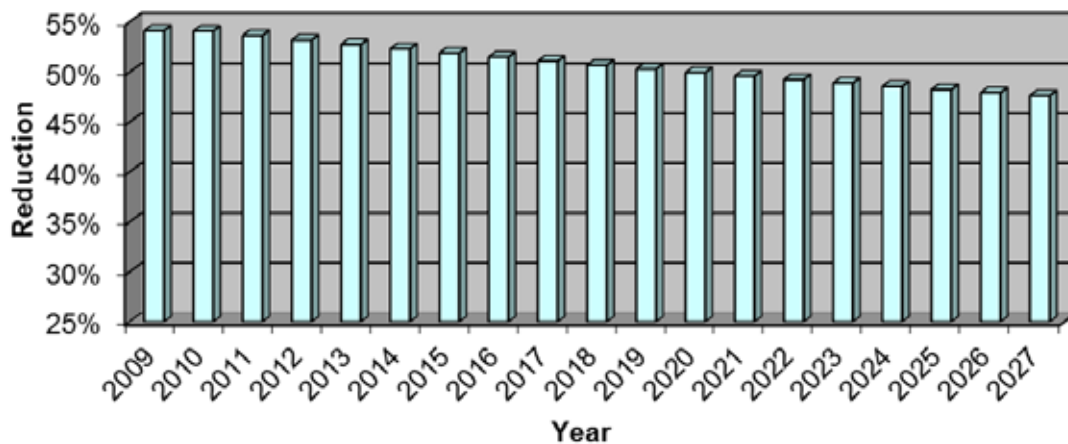
Industrial Waste Reduction Percentage (2009 – 2027)



In 2009, the District’s total waste reduction rate (residential/commercial plus industrial) was 54% (Table VII-5). This equates in a pounds per person per day (PPPD) rate of 4.57. The District anticipates that the total waste reduction rate will fall to 48% by 2027, the final year of the planning period. This equates in a pounds per person per day (PPPD) rate of 3.95. The projected decrease is primarily based on the reduction from the industrial sector coupled with projected increases in waste generation from the residential sector.

The following graph depicts all sectors waste reduction rate throughout the planning period.

Total District Waste Reduction Percentage (2009 – 2027)



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

Year	Recycling	Composting	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2009	20,354	40,004	96,651	60,358	139,623	38%	2.37
2010	20,366	40,028	95,888	60,394	138,285	39%	2.39
2011	20,378	40,052	96,727	60,430	138,368	38%	2.39
2012	20,390	40,076	97,571	60,467	138,451	38%	2.39
2013	20,403	40,100	98,420	60,503	138,534	38%	2.39
2014	20,415	40,124	99,274	60,539	138,617	38%	2.39
2015	20,467	40,148	100,094	60,615	138,700	38%	2.39
2016	20,521	40,172	100,916	60,693	138,783	38%	2.40
2017	20,577	40,196	101,741	60,773	138,866	37%	2.40
2018	20,635	40,221	102,569	60,856	138,949	37%	2.40
2019	20,744	40,245	103,351	60,989	139,033	37%	2.40
2020	20,864	40,269	104,129	61,132	139,116	37%	2.41
2021	20,993	40,293	104,901	61,286	139,199	37%	2.41
2022	21,135	40,317	105,666	61,452	139,283	37%	2.42
2023	21,290	40,341	106,423	61,631	139,366	37%	2.42
2024	21,459	40,366	107,172	61,824	139,450	37%	2.43
2025	21,643	40,390	107,909	62,033	139,534	37%	2.44
2026	21,845	40,414	108,635	62,259	139,617	36%	2.44
2027	22,066	40,438	109,347	62,505	139,701	36%	2.45

Source(s) of information:

Recycling and Composting data are from Table VI-2.

Landfill data is from Table VI-2.

No other waste management methods are used.

Sample calculation (2009):

Recycling + Composting = Tons Waste Reduction

$$20,354 \text{ tons} + 40,004 = 60,358 \text{ tons}$$

Tons Waste Reduction / (Tons Waste Reduction + Landfill) x 100 = Waste Reduction Rate

$$60,358 \text{ tons} / (60,358 \text{ tons} + 96,651 \text{ tons}) \times 100 = 38\%$$

(Tons Waste Reduction x 2000 lbs/ton) / (District Population x 365 days/year) = Per Capita Waste Reduction Rate

$$(60,358 \text{ tons} \times 2000) / (139,623 \times 365) = 2.37 \text{ lb/day}$$

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

Year	Total Waste Reduction	Landfill	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2009	56,076	2,038	139,623	96%	2.20
2010	54,898	1,995	138,285	96%	2.18
2011	53,746	1,953	138,368	96%	2.13
2012	52,617	1,912	138,451	96%	2.08
2013	51,512	1,872	138,534	96%	2.04
2014	50,430	1,833	138,617	96%	1.99
2015	49,371	1,794	138,700	96%	1.95
2016	48,334	1,757	138,783	96%	1.91
2017	47,319	1,720	138,866	96%	1.87
2018	46,326	1,684	138,949	96%	1.83
2019	45,353	1,648	139,033	96%	1.79
2020	44,400	1,614	139,116	96%	1.75
2021	43,468	1,580	139,199	96%	1.71
2022	42,555	1,547	139,283	96%	1.67
2023	41,661	1,514	139,366	96%	1.64
2024	40,787	1,482	139,450	96%	1.60
2025	39,930	1,451	139,534	96%	1.57
2026	39,092	1,421	139,617	96%	1.53
2027	38,271	1,391	139,701	96%	1.50

Source(s) of information:

Waste reduction data is from Table VI-3.

Landfill data is from Table VI-3.

No other waste management methods are used

Sample calculation (2009):

$$\text{Tons Waste Reduction} / (\text{Tons Waste Reduction} + \text{Landfill}) \times 100 = \text{Waste Reduction Rate}$$

$$56,076 \text{ tons} / (56,076 \text{ tons} + 2,038 \text{ tons}) \times 100 = 96 \%$$

$$(\text{Tons Waste Reduction} \times 2,000 \text{ lbs/ton}) / (\text{District Population} \times 365 \text{ days/year}) = \text{Per Capita Waste Reduction Rate}$$

$$(56,076 \text{ tons} \times 2,000) / (139,623 \times 365) = 2.20 \text{ lb/day}$$

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

Year	Recycling and Source Reduction	Composting	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2009	76,430	40,004	98,689	116,434	139,623	54%	4.57
2010	75,264	40,028	97,883	115,292	138,285	54%	4.57
2011	74,124	40,052	98,680	114,176	138,368	54%	4.52
2012	73,007	40,076	99,483	113,083	138,451	53%	4.48
2013	71,915	40,100	100,292	112,015	138,534	53%	4.43
2014	70,845	40,124	101,107	110,969	138,617	52%	4.39
2015	69,838	40,148	101,888	109,986	138,700	52%	4.35
2016	68,855	40,172	102,673	109,027	138,783	52%	4.30
2017	67,896	40,196	103,461	108,093	138,866	51%	4.27
2018	66,961	40,221	104,253	107,181	138,949	51%	4.23
2019	66,097	40,245	105,000	106,342	139,033	50%	4.19
2020	65,264	40,269	105,743	105,533	139,116	50%	4.16
2021	64,461	40,293	106,480	104,754	139,199	50%	4.12
2022	63,690	40,317	107,212	104,007	139,283	49%	4.09
2023	62,951	40,341	107,937	103,293	139,366	49%	4.06
2024	62,245	40,366	108,654	102,611	139,450	49%	4.03
2025	61,574	40,390	109,361	101,963	139,534	48%	4.00
2026	60,937	40,414	110,056	101,351	139,617	48%	3.98
2027	60,337	40,438	110,738	100,775	139,701	48%	3.95

Source(s) of information:

Recycling and Composting data are from Table VI-2 and VI-3.

Landfill data is from Table VI-3 and VI-4.

No other waste management methods are used.

Sample calculation (2009):

Recycling/Source Reduction + Composting = Tons Waste Reduction

$$76,430 \text{ tons} + 40,004 \text{ tons} = 116,434 \text{ tons}$$

Tons Waste Reduction / (Tons Waste Reduction + Landfill) x 100 = Waste Reduction Rate

$$116,434 \text{ tons} / (116,434 \text{ tons} + 98,689 \text{ tons}) \times 100 = 54\%$$

(Tons Waste Reduction x 2,000 lbs/ton) / (District Population x 365 days/year) = Per Capita Waste Reduction Rate

$$(116,434 \text{ tons} \times 2,000) / (139,623 \times 365) = 4.57 \text{ lb/day}$$

VIII. Cost of Financing Plan Implementation [ORC Section 3734.53(A)(9), (12) and (B)]

A. Funding Mechanisms

The District has prepared this Solid Waste Management Plan Update with the most reliable and best information available at the time of its development. There may be discrepancies between the information presented in this *Plan Update* and previous reports (i.e., Annual District Reports, Quarterly Fee Reports, etc.) submitted to Ohio EPA. Some of these discrepancies come from the differences in categories from Ohio EPA reports and the programs presented in this *Plan Update*. The District believes that all previous reports were prepared with the best information available at that time. Since this *Plan Update* was prepared using data from comprehensive survey efforts that included all industrial and commercial businesses, institutions, municipalities, compost facilities, brokers/buy backs and solid waste haulers, the data will supersede all other reports. In addition, the District has committed to comprehensive annual surveying of all sectors in Clark County with assistance from solid waste consultants.

1. District Disposal Fees

Table VIII-1, "District Disposal Fee Schedule and Revenues Generated," presents an estimate of total District disposal fee revenues for the planning period. The District's in-district solid waste disposal fee is \$2.00 per ton. The District's out-of-district solid waste disposal fee is \$4.00 per ton. Out-of-state waste is charged the same rate as in-district solid waste at \$2.00 per ton.

There are no in-district landfills in operation. Additionally, Ohio EPA is not currently reviewing any permits to install for a new landfill or transfer station in the District. Thus, it is not possible for the District to estimate the annual disposal quantities that an in-District landfill or transfer station would receive. Subsequently, the District cannot estimate the level of any disposal fee that will be required to generate adequate revenue to implement the District's plan.

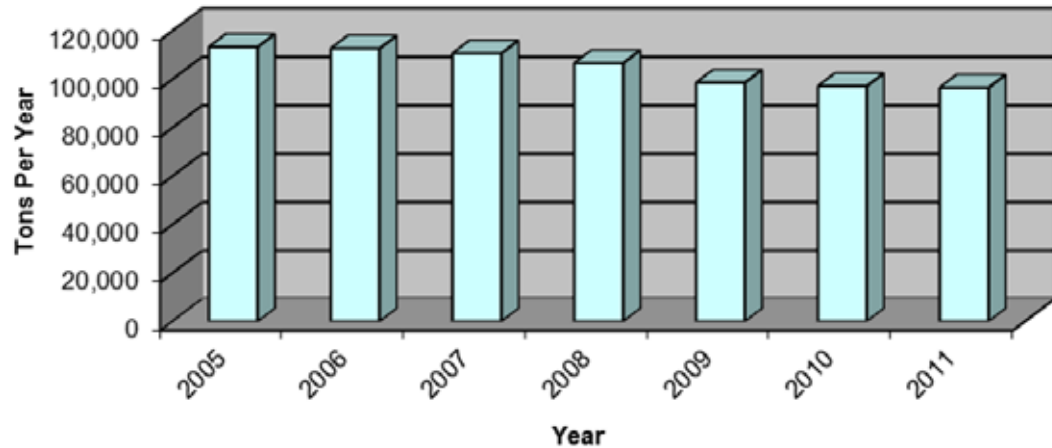
2. Generation Fee

In accordance with Section 3734.573 of the Ohio Revised Code and under the District's current solid waste management plan, the District instituted an \$8.50 per ton generation fee. Receiving transfer stations, landfills or any other applicable solid waste facility will continue to collect the generation fee for each ton of solid waste originating within the District and disposed in the State of Ohio. These facilities will forward the generation

fee revenue to the District pursuant to Section 3745-28-03 of the Ohio Administrative Code.

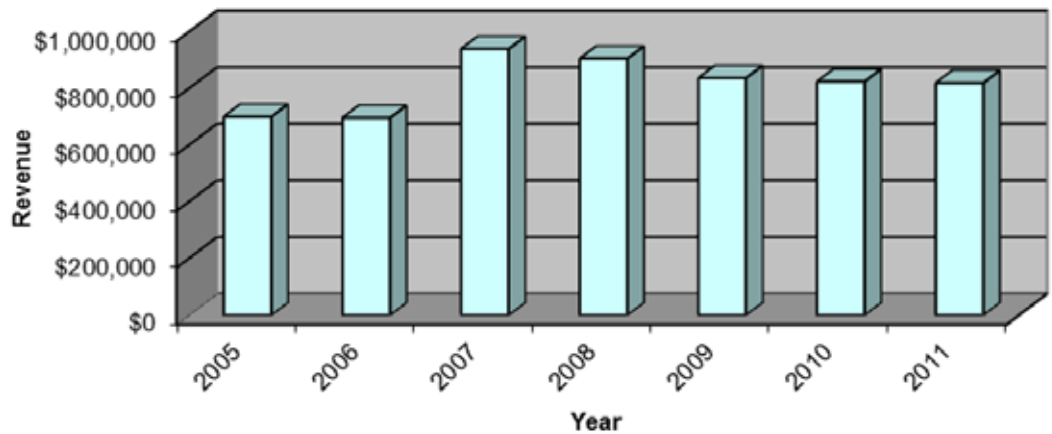
An analysis of the District's recent generation fee disposal tonnage from 2005 – 2011 was conducted to better understand past trends. The following chart depicts the amount of solid waste on which the District received its generation fee.

2005 – 2011 Historical Generation Fee Tons



The following chart depicts the actual generation fees collected for this same period.

2005 – 2011 Historical Generation Fees



From years 2005 – 2006, the generation fee collected per ton was \$6.19. Beginning in 2007, the generation fee collected was \$8.50 per ton.

The current economic recession has affected the District's generation fee revenues significantly, despite the fee increase enacted in 2007. The

following chart depicts the revenue collected, tons disposed and percent change from 2005 – 2011.

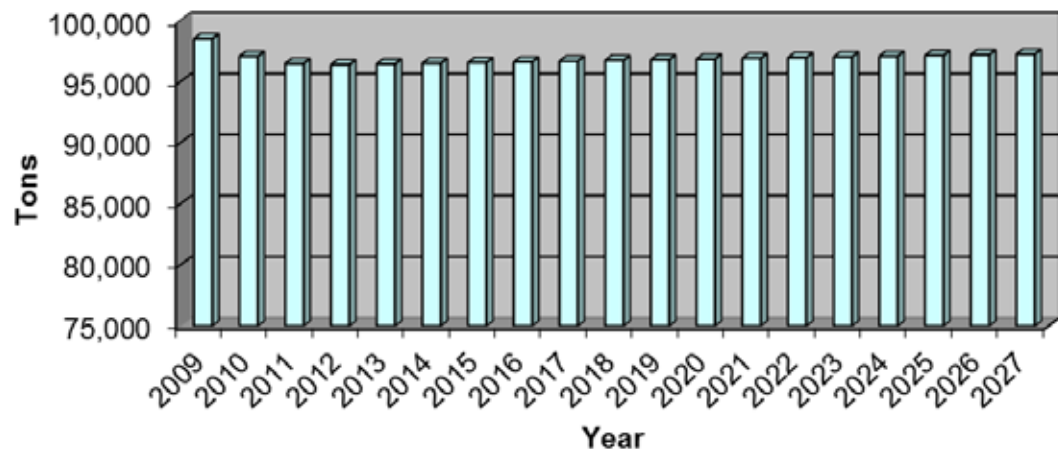
Year	Tons	\$/Ton	Revenue	Difference
2005	113,276	\$6.19	\$701,181	n/a
2006	112,609	\$6.19	\$697,050	-1%
2007	110,630	\$8.50	\$940,355	-2%
2008	106,577	\$8.50	\$905,905	-4%
2009	98,531	\$8.50	\$837,514	-8%
2010	97,086	\$8.50	\$825,231	-1%
2011	96,496	\$8.50	\$820,212	-1%

The total decrease in generation fee tonnage was approximately 15%.

Based on the above analysis, the District incorporated the necessary adjustments to the projections in disposal from Section VI to account for the recession and any future growth. To accomplish this, the District decreased the annual generation fee tonnage in 2012 by .1%. Starting in 2013, the projected annual generation fee tonnage is increased by a conservative 0.06%, the same rate as the projected increase in population.

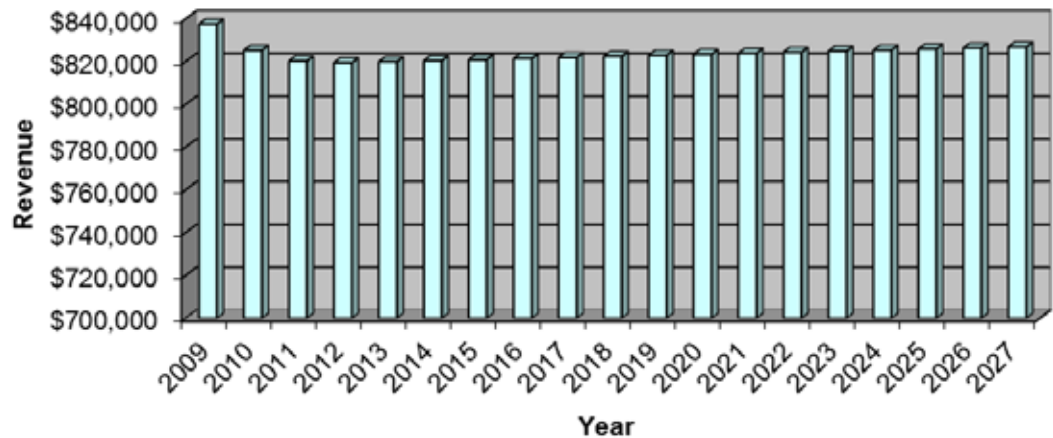
Table VIII-2 presents the generation fee schedule. The District has provided actual revenue and tons disposed for 2009 and 2010. The District also included an estimated revenue amount for 2011 based on nine months of generation fee revenue collected. The following graph depicts the actual and projected disposal tonnage that qualifies for generation fee collection for this *Plan Update*:

2009 – 2027 Disposal Tonnage



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

2009 – 2027 Generation Fees



3. Summary of District Revenues

Table VIII-3, “Summary of Revenue Generated and Mechanisms Used,” presents the District’s actual revenues from 2009 and 2010 and estimated revenues for 2011 – 2027. Estimated revenues include generation fees, user fees, recycling revenue, grants, reimbursements and miscellaneous revenue. The following table summarizes all District revenue for the first year of the planning period along with a description of each revenue source. Miscellaneous revenues include refunds and reimbursements.

Revenue Source	2013 Projected Revenue Total
Generation Fees	\$819,883
Generation fees from solid waste disposed at Ohio landfills and transfer stations.	
User Fees	\$16,019
User fees charged for the use of the recycling center. User fees increase in 2015 when the HHW program begins collecting user fees. Starting in 2015, the District is projecting an additional \$10,000 in user fee revenue from this program. This is based on collecting 10,000 lbs of acceptable HHW material at and an average of \$1.00 per pound in user fees.	
Recycling Revenue	\$15,018
Recycling revenue includes income from the sale of recyclables.	
Grants (See note below)	\$0
Grant revenue includes funds received for ODNR grants and other grants as applied for by the District.	
Reimbursements	\$2,000
Reimbursements from the operation of the recycling center.	
Miscellaneous Revenue	\$500
Miscellaneous revenues received by District.	

Note: Grant revenue in 2010 differs from the revenue shown in the District’s quarterly fee report (QFR). The District reported \$29,500 in grant revenue in the QFR for 2010. In reality, the District received two community development grants from ODNR in 2010: one for \$4,500 to do

a prescription drug recycling event and another for \$4,000 as a pass-through for Habitat for Humanity to buy a box truck for the ReStore. The District received an initial payment of 50% for each grant, for a total of \$4,250, in June of 2010. No money was spent on either of these grants in 2010 and was forecasted to be spent in 2011. The District anticipates receiving the balance of the grant revenue in 2011 once the final report is submitted to ODNR.

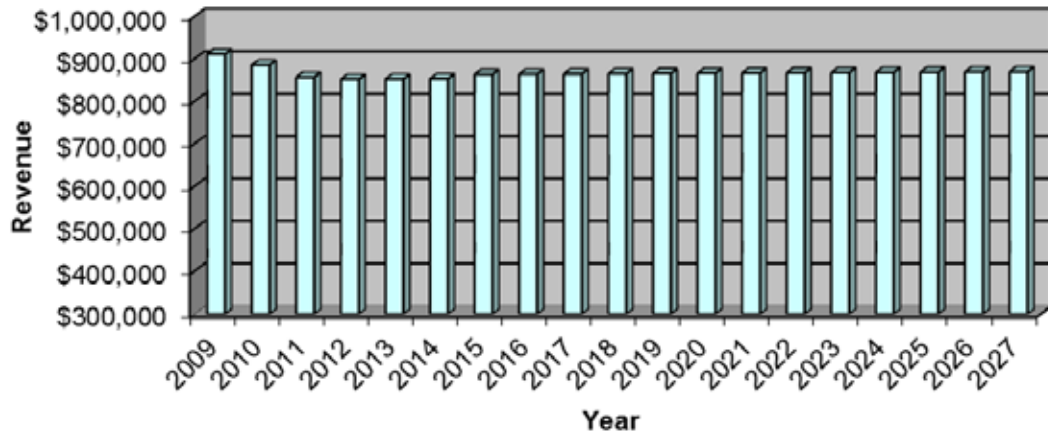
In addition, the District received a \$1,500 Cigarette Litter Prevention Program grant that was spent for ash receptacles, pocket ashtrays, and to print posters.

Kohl's also gave the District a \$1,500 grant, which was used for Great American Cleanup support and to help pay for Lisa Holmes' fees for the educational skit.

The following graph depicts the District's total actual and projected revenue from 2009 – 2027 and includes all anticipated revenue sources identified above.

In total for 2010, the District received \$7,250 in grant revenue.

2009 – 2027 District Revenue



Total revenues are anticipated to decrease from \$853,421 in 2013, the first year of the planning period, to \$870,668 in 2027, the final year of the planning period.

4. Other Funding Mechanisms

The District reserves the right to consider other funding mechanisms, including but not limited to, contract fees resulting from the designation of solid waste facilities. These alternate fee mechanisms would allow the District to collect fees on all solid waste generated within the District. The

process to designate solid waste facilities will comply with Section 343.014 of the Ohio Revised Code. All solid waste facilities designated by the District pay the contract fee.

In the event the Board contracts with designated solid waste facilities, the Board will also implement the waiver process for undesignated solid waste facilities. Waiver agreements will permit the delivery of solid waste generated within the District and will require that the owner or operator of the undesignated facility receiving the waiver shall pay a waiver fee to the Board equal to the amount of the contract fee for designated solid waste facilities.

The District's Board of Directors may choose to use these mechanisms to supplement or replace the District generation fee, which was adopted pursuant to Section 3734.573 of the Ohio Revised Code. Any change in the generation fee requires the approval of the District Policy Committee and subsequent ratification by the political subdivisions within the District.

B. Cost of Plan Implementation

Because of the current economic conditions facing the District and the reduced revenue projections into the future, the District policy Committee had to make several reductions in expenses for the budget in this *Plan Update*. In addition, the District was very conservative in its revenue projections.

The District will be reevaluating its cost tracking and accounting systems starting in 2012. The goal is to create an accounting system that separates all operations and programs into their own cost centers. The cost centers will be designed to be consistent with the *Plan Update* budget presented in this section.

Table VIII-4A and VIII-4B, "Anticipated Loans Secured by the District", indicates the District has two outstanding loans, which are scheduled to be retired in 2016. The District reserves the right to assume debt for any purpose that is in the best interest of the District. Any new loans that may be incurred during the planning period will be evaluated to determine if a significant change in the projected expenses as it relates to projected revenues would require an amendment to the budget tables, which would require ratification, by the political subdivision of the District. An amendment to the budget tables would not be required if the changes are not significant and are consistent with this *Plan Update*.

Table VIII-5, "Estimated Cost for Plan Implementation," includes a detailed breakdown of administration, residential/commercial/industrial recycling

and collection programs, grant programs, residential/commercial education and awareness programs and other programs.

Table VIII-5 presents projected budgets for the above listed categories for the entire planning period. The District understands that changes in revenues as well as expenses throughout the planning period may occur that have not been anticipated in these budgets.

The District will evaluate the funding priorities and may adjust the amount of funding that will be allocated to the various initiatives, strategies and programs of the District. If the District concludes that a change in funding is warranted for a District initiative, strategy or program, the District shall evaluate whether the affected initiative, strategy or program constitutes a material change in circumstances that requires an update of the District Plan. If the District concludes that the change in an essential program is not material, the District may adjust funding. The District Executive Director will explain the proposed changes in expenditures to the Board. Thereafter, the adjusted funding shall be in accordance with the District Plan and shall not constitute a basis to update the District Plan.

If the District concludes that adjusted funding for one or more initiatives, strategies or programs constitutes a material change in circumstances, the changes in funding shall be implemented and the Board shall request the Policy Committee to prepare a revised or updated Plan incorporating the changes in funding.

The District Director will allocate these funds with the approval of the Board of Directors.

Administration

Administration costs include the payroll, payroll taxes and benefits, office expenses, equipment, professional services (includes plan preparation, attorney fees and other consulting), travel and other administrative expenses.

For 2013, the first year of the planning period, the following funding levels are projected for each administrative line item and include a brief description of each expense line item:

Program	Program #	2013 Budget	Annual Escalator
Personnel – Salaries, Medicare and OPERS	Admin-1	\$299,162	Varies
Salaries include the cost of employing District staff, Medicare expenses and PERS retirement for the employees of the District. Cost savings are incurred throughout the planning period as the District Director salary is split between the District and Utilities Department of the County, which began in late 2011.			

Program	Program #	2013 Budget	Annual Escalator
Personnel - Workers Compensation, Unemployment	Admin-2	\$5,611	1%
Workers' compensation and unemployment expenses. This line item is increased 2% from 2013-2014 and then 1% thereafter.			
Personnel – Health and Life Insurance	Admin-3	\$38,760	2%
Benefits include the costs of health care insurance			
Liability Insurance	Admin-4	\$6,000	Varies
Expenses to maintain liability insurance for District operations. Expense for 2014 and beyond is projected at \$6,500 annually.			
Miscellaneous Office Expense	Admin-5	\$0	n/a
Includes publications, vehicle repairs, memberships, meeting expenses, conferences and training.			
Indirect Costs	Admin-6	\$27,000	Flat
The County's operating and personnel costs that are allocated to the District, such as the County Prosecutor, Auditor, IS Department etc.			
Travel	Admin-7	\$6,500	Varies
Travel costs including hotels, mileage, meals and fuel. This line item has been significantly reduced as compared to previous years based on the current economic conditions facing the District for 2013 then increased to \$18,000 in 2014 and remains flat throughout the planning period.			
Office Supplies	Admin-8	\$4,000	Varies
Miscellaneous supplies costs needed by the District for administrative support. This line item is increased to \$6,000 in 2014 and then remains flat through the planning period.			
Office Equipment Rental	Admin-9	\$2,500	Flat
Expenses for office equipment leases (copier and postage meter). This line item had higher than normal expense in 2011 based on budgeted and approved expenses and is reduced to normal levels starting in 2012 - 2027.			
Communications	Admin-10	\$6,100	Flat
Telephones and internet service at the Recycling Center.			
Utilities and Security	Admin-11	\$8,345	1.5%
Natural gas, water, electricity and security expenses for the Recycling Center. This line item has been reduced as compared to previous years based on the current economic conditions facing the District.			
Building Repair	Admin-12	\$10,000	Flat
Expenses related to the maintenance and repair of the Recycling Center. This line item had higher than normal expense in 2011 based on budgeted and approved expenses and is reduced to normal levels starting in 2012-2027.			
Equipment	Admin-13	\$20,000	Flat
Equipment and replacement expenses. This line item had higher than normal expense in 2011 based on budgeted and approved expenses and is reduced to normal levels starting in 2013.			
Loan Repayment	Admin-14	\$35,568	Varies
\$300,000 was borrowed for 10 years (2016) to accomplish all of the needed improvements to the building and the site. Additional bond of \$50,000 for loading dock at recycling center to be retired in 2016. See tables VIII-4A and VIII-4B for the specific debt retirement schedules.			

Program	Program #	2013 Budget	Annual Escalator
Printing and Advertising	Admin-15	\$12,000	Flat
Materials and advertising to promote District programs, as well as waste reduction, recycling and composting to residents, institutions and businesses.			
Professional and Legal	Admin-16	\$5,000	Varies
The costs to contract with a qualified consulting firm to assist the District with plan implementation management, annual district reporting, annual surveying of business, future plan development, special studies and other tasks as assigned by the District Director and/or Board. This line item also includes legal assistance. Future expense projections are escalated during plan preparation years.			

For 2013, the first year of the planning period, the District is projecting to spend \$486,546 in administrative expenses.

As stated earlier, the District will revise the structure of its annual budget starting in 2012 to better coincide with the programmatic operations of the District. The administrative budget listed above includes certain costs that are related to the operation of the recycling center and the drop-off program as well as education and awareness activities. The District's goal in 2012 will be to split the costs of managing the District from cost associated with operating programs.

Residential/Commercial/Industrial Programs

Residential/commercial/industrial programs include all of the programs and services needed to implement this *Plan Update*. For 2013, the first year of the planning period, the following funding levels are projected for each program and include a brief description of each expense line item:

Program	Program #	2013 Budget	Annual Escalator
Clark County Recycling Center	CC-01	\$39,047	.06%
Curbside Recycling	CC-02	\$0	n/a
The District does not operate any curbside recycling programs and therefore does not incur any direct expenses for this program.			
Franchise Waste Collection Program	CC-03	\$0	n/a
This program is being discontinued in lieu of program # 02 and 19.			
Drop-Off Recycling	CC-04	\$4,809	.06%
The District operates three drop-off recycling sites and is planning to expand and/or change how these sites can operate more efficiently. See Section V for more details. The District reserves the right to increase funding to this program depending on the outcome of the evaluation described in Section V. The District may purchase equipment to operate the program more efficiently and or contract for the operation of the program to the private sector. Before any changes are made, the District will ensure that the annual budget can sustain the program changes throughout the planning period.			

Program	Program #	2013 Budget	Annual Escalator
Yard Waste Management	CC-05	\$4,005	.06%
The cost of operating the District's backyard composting education program and bin sale program.			
Household Hazardous Waste	CC-06	\$13,016	.06%
The cost of operating the District's county-wide household hazardous waste collection and disposal program. The program will transition to a user fee funded program starting in 2015, which will eliminate a net cost to the District to operate the program.			
Electronics Recycling	CC-07	\$5,707	.06%
The cost of promoting the District's Recycle Your Computer Month events.			
Scrap Tire Collection	CC-08	\$10,012	.06%
The cost of operating the District's annual Scrap Tire Round-Up and Scrap Tire Sweeps.			
Government Office Recycling	CC-09	\$501	.06%
The cost of operating this program includes collection and recycling. Since the overall expense for this program is low and is tied to the operation of programs CC-01 and CC-04, the annual escalator is the same as the aforementioned programs.			
Business Paper Recycling	CC-10	\$0	n/a
The cost of operating this program includes collection and recycling.			
Education and Awareness	CC-11	\$15,000	.06%
The cost of operating the general recycling awareness and education program for the District.			
Business Waste Reduction Assistance (BWRAP)	CC-12	\$0	n/a
The cost of operating this program includes collection and recycling.			
Litter Prevention/Clean-Up	CC-13	\$134,161	.06%
The cost of providing litter collection crews to remove litter along roadways in the County and special clean-up projects as well as funding for Sheriff deputy(s) to conduct investigations for solid waste enforcement and prosecution. The District has historically funded 1 Sheriff Deputy to operate this program. Since 2010, the District has funded ½ of an additional Deputy to also work in this program. The District reserves the right to operate this program with whatever Deputy level it deems necessary or at a level that the District can afford depending on incoming revenues.			
Health Department Funding	CC-14	\$140,769	.06%
The cost of conducting solid waste enforcement and facility inspections.			
Legal and Consulting	CC-15	\$0	n/a
The expenses for this program are included in Admin #16.			
Other Facilities	CC-16	\$0	n/a
The District has budgeted \$35,000 in 2014 to conduct a transfer station feasibility study. See Section V for more details.			
Curbside Recycling Grants	CC-17	\$0	Varies
The District has budgeted \$75,000 in 2016 and 2017 for this program. The District reserves the right to spend more or less on this program depending on economic conditions and available fund balance. See Section V for more details.			
Food Waste Management	CC-18	\$0	n/a
Costs for this program are included in the administration budget.			

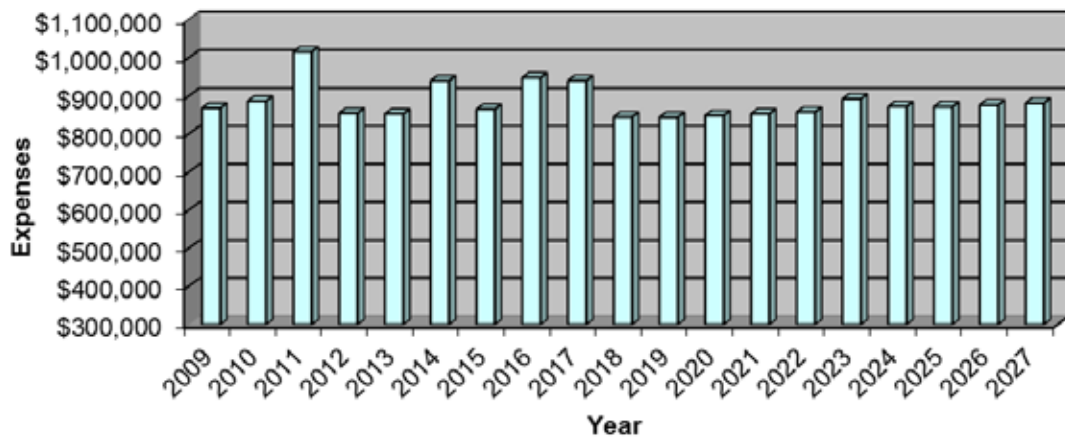
Program	Program #	2013 Budget	Annual Escalator
Disaster Debris Management	CC-19	\$0	n/a
If there is a need for emergency Clark County Disaster Debris funding, the District may allocate up to 5% of excess District funding (or up to \$15,000). The District, EMA and the County will make every effort to seek reimbursement from local, state and federal funding sources.			

For 2013, the first year of the planning period, the District is projecting to spend \$367,002 in programmatic expenses.

Expense Summary

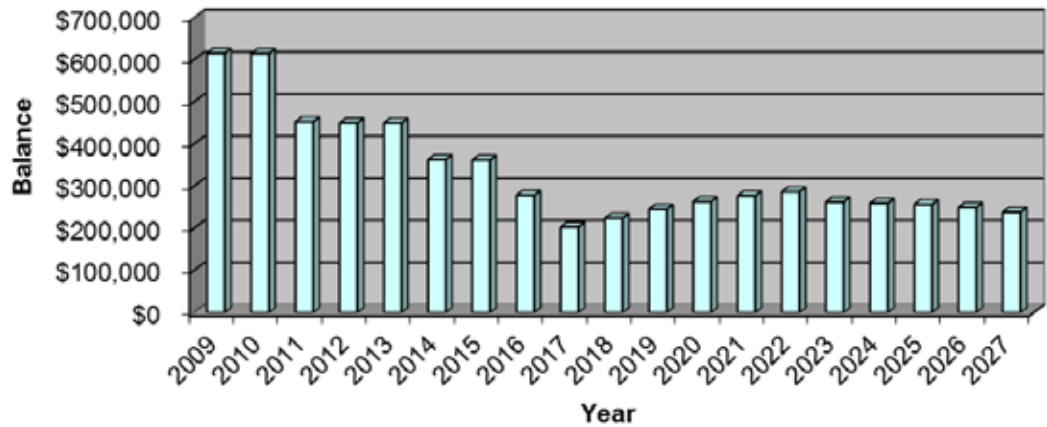
The District is projecting to spend \$853,568 in 2013, the first year of the planning period and \$881,906 in 2027, the final year of the planning period. The following chart summarizes the District’s actual and projected expenses throughout the planning period.

2009 – 2027 District Expenses



Based on the projected revenue and expenses detailed in Table VIII-8, the District’s excess fund balance is expected to remain at or above \$202,000 each year. The following graph depicts the projected annual fund balance throughout the planning period:

District Fund Balance 2009 – 2027



The fund balances for 2009, 2010 and 2011 have been adjusted from previous submitted quarterly fee reports. Ohio EPA has approved these new fund balances. The fund balance adjustments were attributed to an accounting adjustment from an error in reporting that was detected in 2001.

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 Director, will review and revise the budget as needed to implement 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 Director’s recommendations.

The District reserves the right to revise the budget, reallocate funds and/or use the excess unused fund balance as programs change or as otherwise determined to be in the best interest of the District.

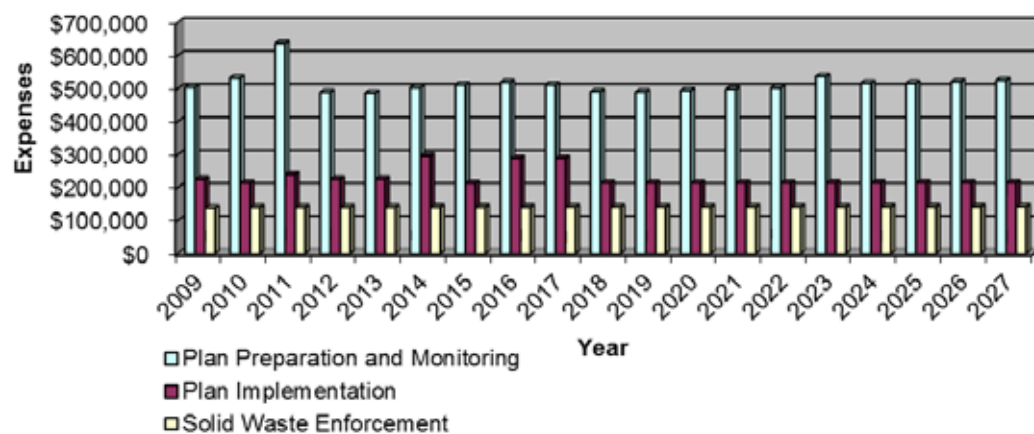
The District is committed to implementing planned strategies, facilities, programs and/or activities in a cost-effective manner. The District is committed to improving the effectiveness and reduce the cost of all District strategies, facilities, programs and activities. The District Board is authorized 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 implement new strategies, facilities, programs and activities.

C. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 3734.573

Table VIII-6, “Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573,” presents the District’s projected costs for the ten allowed uses. The District’s budget falls into three categories: preparation and monitoring of plan implementation, implementation of the approved plan, and solid waste enforcement.

The following graph depicts the District’s annual expense to implement this *Plan Update* based on the expense distribution:

District Expense Distribution 2009 – 2027



D. Contingent Funding

The District and its Board do not consider funding to be an issue of concern during this planning period. The following contingent funding procedure includes options for increasing the District’s generation fee if warranted. Prior to increasing the generation fee, the District will evaluate the estimated expenditures in Table VIII-5 to determine the minimum annual budget to sustain the District’s essential strategies, facilities, programs and activities and finance implementation of the District Plan. If an increase in the generation is justified, the District Board will request that the District Policy Committee approve the increase of the generation fee and obtain ratification of that increase.

In the event that the District fund balance is less than \$200,000, the District Board will consider whether to request that the District Policy Committee commence the process to increase the District generation fee or to pursue other sources of funds.

A \$200,000 fund balance is approximately one quarter of the District annual revenue budget. Maintaining an adequate fund balance is

essential for the District's financial stability and continuity of District strategies, facilities, programs and activities, particularly those the *Plan Update* characterizes as essential. The Board will request that the District Policy Committee increase the District's generation fee in \$0.25 per ton increments as needed.

In general, the District is confident that it can adjust to less than catastrophic changes in waste generation/disposal, and thus a loss in projected generation fee revenue. District revenues may vary from year-to-year or season-to-season depending on the waste generation and economic conditions. The Board monitors District revenues and expenses through staff reports and comments provided by the District Policy Committee to assist the Board in its considerations of whether this contingency plan needs to be implemented.

The District anticipates that an increase in the generation fee will require four to seven months to implement.

Once the District has decided an increase in generation fees is needed, the District will set the amount of the generation fee increase and will immediately begin the process to ratify the generation fee in accordance with Section 3734.573 of the Ohio Revised Code. Table VIII-7 does not show a specific amount to be generated by a hypothetical generation fee increase. For every \$0.25 per ton increase, the District may generate approximately \$22,000 in additional revenue annually.

The District may also consider other funding mechanisms as a part of this contingent funding procedure including but not limited to contract fees and designation with contract fees. The District's Board of Directors may choose to use these mechanisms as a contingent funding source or to replace generation fees. Any changes in the generation fee will require the District Policy Committee to approve that change and obtain ratification by the political subdivisions within the District.

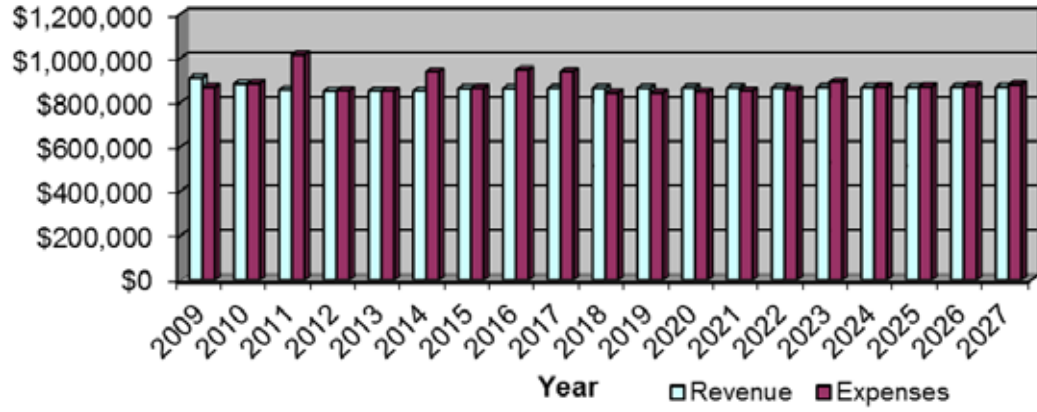
E. Summary of Costs and Revenues

Table VIII-8, "Summary of District Revenues and Expenditures," includes the annual costs for each program and activity for the reference year and each year of the planning period. Total expenditures for the first year of the planning period are projected to be \$853,568 and will rise slowly over the planning period ending at \$881,906 in 2027. The District is projected to begin the planning period with a carryover balance of \$450,049 and will have an ending balance of approximately \$238,000 in 2027.

Each year of the planning period has sufficient funding for each of the programs.

The following graph depicts the actual and projected revenues vs. expenses of the District throughout the planning period:

District Revenue and Expenses 2009 – 2027



The District may move funds between programs and activities as costs and revenues may increase or decrease during the planning period.

**Table VIII-1
District Disposal Fee Schedule and Revenues Generated**

Year	Fee Schedule (\$/ton)			Tons Disposed in the District			Total District Fee Revenue
	In-District	Out-of-District	Out-of State	In-District	Out-of-District	Out-of State	
2009	\$2.00	\$4.00	\$2.00				\$0
2010	\$2.00	\$4.00	\$2.00				\$0
2011	\$2.00	\$4.00	\$2.00				\$0
2012	\$2.00	\$4.00	\$2.00				\$0
2013	\$2.00	\$4.00	\$2.00				\$0
2014	\$2.00	\$4.00	\$2.00				\$0
2015	\$2.00	\$4.00	\$2.00				\$0
2016	\$2.00	\$4.00	\$2.00				\$0
2017	\$2.00	\$4.00	\$2.00				\$0
2018	\$2.00	\$4.00	\$2.00				\$0
2019	\$2.00	\$4.00	\$2.00				\$0
2020	\$2.00	\$4.00	\$2.00				\$0
2021	\$2.00	\$4.00	\$2.00				\$0
2022	\$2.00	\$4.00	\$2.00				\$0
2023	\$2.00	\$4.00	\$2.00				\$0
2024	\$2.00	\$4.00	\$2.00				\$0
2025	\$2.00	\$4.00	\$2.00				\$0
2026	\$2.00	\$4.00	\$2.00				\$0
2027	\$2.00	\$4.00	\$2.00				\$0

Not applicable as there are no landfills or transfer stations currently in the District

**Table VIII-2
Generation Fee Schedule and Revenues**

Year	Base Generation Fee	Amount of District Waste to be Disposed (in tons) #	Total Generation Fee Revenue
2009	\$8.50	98,531	\$837,513.27
2010	\$8.50	97,086	\$825,228.50
2011	\$8.50	96,496	\$820,211.92
2012	\$8.50	96,399	\$819,391.71
2013	\$8.50	96,457	\$819,883.34
2014	\$8.50	96,515	\$820,375.27
2015	\$8.50	96,573	\$820,867.50
2016	\$8.50	96,631	\$821,360.02
2017	\$8.50	96,689	\$821,852.83
2018	\$8.50	96,747	\$822,345.95
2019	\$8.50	96,805	\$822,839.35
2020	\$8.50	96,863	\$823,333.06
2021	\$8.50	96,921	\$823,827.06
2022	\$8.50	96,979	\$824,321.35
2023	\$8.50	97,037	\$824,815.95
2024	\$8.50	97,095	\$825,310.84
2025	\$8.50	97,154	\$825,806.02
2026	\$8.50	97,212	\$826,301.51
2027	\$8.50	97,270	\$826,797.29

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

Year	Type of Revenue Mechanism and Amount Used										Total Revenue Generated
	District Disposal Fees	Generation Fees	User Fees	Recycling Revenue	Grants	Reimbursements	Other Revenues				
2009	\$0	\$837,513	\$16,832	\$10,439	\$27,500	\$19,520	\$52	\$911,855			
2010	\$0	\$825,229	\$16,369	\$31,388	\$7,250	\$2,778	\$3,229	\$886,244			
2011	\$0	\$820,212	\$16,000	\$15,000	\$4,250	\$2,000	\$500	\$857,962			
2012	\$0	\$819,392	\$16,010	\$15,009	\$0	\$2,000	\$500	\$852,910			
2013	\$0	\$819,883	\$16,019	\$15,018	\$0	\$2,000	\$500	\$853,421			
2014	\$0	\$820,375	\$16,029	\$15,027	\$0	\$2,000	\$500	\$853,931			
2015	\$0	\$820,867	\$26,038	\$15,036	\$0	\$2,000	\$500	\$864,442			
2016	\$0	\$821,360	\$26,054	\$15,045	\$0	\$2,000	\$500	\$864,959			
2017	\$0	\$821,853	\$26,070	\$15,054	\$0	\$2,000	\$500	\$865,477			
2018	\$0	\$822,346	\$26,085	\$15,063	\$0	\$2,000	\$500	\$865,994			
2019	\$0	\$822,839	\$26,101	\$15,072	\$0	\$2,000	\$500	\$866,512			
2020	\$0	\$823,333	\$26,117	\$15,081	\$0	\$2,000	\$500	\$867,031			
2021	\$0	\$823,827	\$26,132	\$15,090	\$0	\$2,000	\$500	\$867,550			
2022	\$0	\$824,321	\$26,148	\$15,099	\$0	\$2,000	\$500	\$868,069			
2023	\$0	\$824,816	\$26,164	\$15,108	\$0	\$2,000	\$500	\$868,588			
2024	\$0	\$825,311	\$26,179	\$15,117	\$0	\$2,000	\$500	\$869,108			
2025	\$0	\$825,806	\$26,195	\$15,126	\$0	\$2,000	\$500	\$869,628			
2026	\$0	\$826,302	\$26,211	\$15,136	\$0	\$2,000	\$500	\$870,148			
2027	\$0	\$826,797	\$26,227	\$15,145	\$0	\$2,000	\$500	\$870,668			

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

Year	Loans Obtained by the District		Interest Rate	Length of Loan	Annual Debt Service
	Lending Institution	Loan Amount			
2009	County Bond	\$300,000.00	3.75%	2006-2016	\$27,881.26
2010	County Bond		3.75%	2006-2016	\$32,131.26
2011	County Bond		3.75%	2006-2016	\$31,193.76
2012	County Bond		3.75%	2006-2016	\$30,256.26
2013	County Bond		3.75%	2006-2016	\$29,318.26
2014	County Bond		4.00%	2006-2016	\$28,381.26
2015	County Bond		4.13%	2006-2016	\$27,381.26
2016	County Bond		4.50%	2006-2016	\$31,350.00
2017	N/A		N/A	N/A	N/A
2018	N/A	N/A	N/A	N/A	N/A
2019	N/A	N/A	N/A	N/A	N/A
2020	N/A	N/A	N/A	N/A	N/A
2021	N/A	N/A	N/A	N/A	N/A
2022	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A
2024	N/A	N/A	N/A	N/A	N/A
2025	N/A	N/A	N/A	N/A	N/A
2026	N/A	N/A	N/A	N/A	N/A
2027	N/A	N/A	N/A	N/A	N/A

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

Year	Loans Obtained by the District		Interest Rate	Length of Loan	Annual Debt Service
	Lending Institution	Loan Amount			
2009	County Bond	\$50,000.00	3.75%	2006-2016	\$7,000.00
2010	County Bond		3.75%	2006-2016	\$6,812.50
2011	County Bond		3.75%	2006-2016	\$7,625.00
2012	County Bond		3.75%	2006-2016	\$6,437.50
2013	County Bond		3.75%	2006-2016	\$6,250.00
2014	County Bond		4.00%	2006-2016	\$6,062.50
2015	County Bond		4.13%	2006-2016	\$10,862.50
2016	County Bond		4.50%	2006-2016	\$10,450.00
2017	N/A	N/A	N/A	N/A	N/A
2018	N/A	N/A	N/A	N/A	N/A
2019	N/A	N/A	N/A	N/A	N/A
2020	N/A	N/A	N/A	N/A	N/A
2021	N/A	N/A	N/A	N/A	N/A
2022	N/A	N/A	N/A	N/A	N/A
2023	N/A	N/A	N/A	N/A	N/A
2024	N/A	N/A	N/A	N/A	N/A
2025	N/A	N/A	N/A	N/A	N/A
2026	N/A	N/A	N/A	N/A	N/A
2027	N/A	N/A	N/A	N/A	N/A

Table VIII-5
Estimated Costs for Plan Implementation

Description	Program #	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
District Administration Budget																				
Personnel - Salaries, Medicare and Unemployment	Admin-1	\$265,202	\$292,255	\$341,500	\$296,200	\$299,162	\$302,154	\$305,175	\$308,227	\$311,309	\$314,422	\$317,566	\$320,742	\$323,950	\$327,189	\$330,461	\$333,766	\$337,103	\$340,474	\$343,879
Personnel - Health and Life Insurance	Admin-2	\$3,398	\$3,529	\$5,500	\$5,555	\$5,611	\$5,723	\$5,780	\$5,838	\$5,897	\$5,956	\$6,015	\$6,075	\$6,136	\$6,197	\$6,259	\$6,322	\$6,385	\$6,449	\$6,514
Liability Insurance	Admin-3	\$42,604	\$48,383	\$54,074	\$38,000	\$38,760	\$39,535	\$40,326	\$41,132	\$41,955	\$42,794	\$43,650	\$44,523	\$45,414	\$46,322	\$47,248	\$48,193	\$49,157	\$50,140	\$51,143
Miscellaneous Office Expense	Admin-4	\$3,503	\$5,998	\$6,000	\$6,000	\$6,000	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
Indirect Costs	Admin-5	\$1,176	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Travel	Admin-6	\$29,411	\$33,010	\$26,800	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000
Office Supplies	Admin-7	\$16,300	\$13,161	\$8,800	\$6,500	\$6,500	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Office Equipment Rental	Admin-8	\$7,484	\$9,857	\$4,000	\$4,000	\$4,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Communications	Admin-9	\$2,886	\$2,520	\$10,700	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Utilities and Security	Admin-10	\$10,994	\$6,582	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100
Building Repair	Admin-11	\$11,223	\$9,178	\$8,100	\$8,221	\$8,345	\$8,470	\$8,597	\$8,726	\$8,857	\$8,990	\$9,125	\$9,262	\$9,401	\$9,542	\$9,685	\$9,830	\$9,977	\$10,127	\$10,279
Equipment	Admin-12	\$7,915	\$20,069	\$36,100	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Loan Repayment	Admin-13	\$14,366	\$21,041	\$40,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Printing and Advertising	Admin-14	\$60,460	\$38,944	\$38,819	\$36,694	\$35,568	\$34,444	\$38,244	\$41,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Professional and Legal	Admin-15	\$20,060	\$13,426	\$15,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
	Admin-16	\$7,400	\$14,397	\$35,000	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000	\$35,000	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000	\$35,000	\$10,000	\$5,000	\$5,000	\$5,000
Subtotal		\$504,382	\$532,350	\$636,493	\$488,770	\$486,546	\$503,426	\$511,223	\$518,824	\$511,118	\$490,262	\$489,456	\$493,702	\$498,000	\$502,350	\$536,753	\$516,211	\$515,723	\$520,291	\$524,915
Residential/Commercial/Industrial Programs																				
Clark County Recycling Center	CC-01	\$25,619	\$30,460	\$39,000	\$39,023	\$39,047	\$39,070	\$39,094	\$39,117	\$39,141	\$39,164	\$39,188	\$39,211	\$39,235	\$39,258	\$39,282	\$39,305	\$39,329	\$39,352	\$39,376
Curbside Recycling	CC-02	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Franchise Waste Collection Program	CC-03	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Drop-Off Recycling	CC-04	\$44,517	\$1,912	\$4,800	\$4,803	\$4,806	\$4,809	\$4,812	\$4,814	\$4,817	\$4,820	\$4,823	\$4,826	\$4,829	\$4,832	\$4,835	\$4,838	\$4,840	\$4,843	\$4,846
Yard Waste Management	CC-05	\$2,297	\$285	\$4,000	\$4,002	\$4,005	\$4,007	\$4,010	\$4,012	\$4,014	\$4,017	\$4,019	\$4,022	\$4,024	\$4,026	\$4,029	\$4,031	\$4,034	\$4,036	\$4,039
Household Hazardous Waste Collection	CC-06	\$14,547	\$12,436	\$13,000	\$13,008	\$13,016	\$13,023	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electronics Recycling	CC-07	\$15,970	\$15,582	\$5,700	\$5,703	\$5,707	\$5,710	\$5,714	\$5,717	\$5,721	\$5,724	\$5,727	\$5,731	\$5,734	\$5,738	\$5,741	\$5,745	\$5,748	\$5,752	\$5,755
Scrap Tire Collection	CC-08	\$6,206	\$9,328	\$10,000	\$10,006	\$10,012	\$10,018	\$10,024	\$10,030	\$10,036	\$10,042	\$10,048	\$10,054	\$10,060	\$10,066	\$10,072	\$10,078	\$10,084	\$10,090	\$10,096
Government Office Recycling	CC-09	\$0	\$3,392	\$500	\$500	\$501	\$501	\$501	\$502	\$502	\$502	\$502	\$503	\$503	\$503	\$504	\$504	\$504	\$505	\$505
Business Paper Recycling	CC-10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Education and Awareness	CC-11	\$6,941	\$15,369	\$28,000	\$15,000	\$15,000	\$15,009	\$15,018	\$15,027	\$15,036	\$15,045	\$15,054	\$15,063	\$15,072	\$15,081	\$15,090	\$15,099	\$15,108	\$15,117	\$15,126
Business Waste Reduction Assistance (BWRAP)	CC-12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Litter Prevention/Clean-Up Programs	CC-13	\$109,549	\$125,378	\$134,000	\$134,080	\$134,161	\$134,241	\$134,322	\$134,402	\$134,483	\$134,564	\$134,645	\$134,725	\$134,806	\$134,887	\$134,968	\$135,049	\$135,130	\$135,211	\$135,292
Health Department Funding	CC-14	\$138,688	\$140,600	\$140,600	\$140,684	\$140,769	\$140,853	\$140,938	\$141,022	\$141,107	\$141,192	\$141,276	\$141,361	\$141,446	\$141,531	\$141,616	\$141,701	\$141,786	\$141,871	\$141,956
Legal and Consulting (Included in Admin #16)	CC-15	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Facilities	CC-16	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Curbside Recycling Grants	CC-17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Food Waste Management	CC-18	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Disaster Debris Management	CC-19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal		\$364,334	\$354,742	\$380,600	\$366,811	\$367,022	\$437,242	\$354,431	\$429,644	\$429,857	\$355,070	\$355,283	\$355,496	\$355,709	\$355,923	\$356,136	\$356,350	\$356,564	\$356,778	\$356,992
Totals		\$868,716	\$887,092	\$1,017,093	\$855,581	\$853,568	\$940,668	\$865,654	\$948,468	\$940,975	\$845,332	\$844,739	\$849,198	\$853,709	\$858,273	\$892,890	\$872,561	\$872,287	\$877,068	\$881,906

**Table VIII-7
Contingent Funding Sources**

Year	Amount of Contingent Funding for Each Source		Total (\$)
	Generation Fee Revenue (\$)	Disposal Fee Revenue (\$)	
2009	See Narrative in Section VIII		
2010			
2011			
2012			
2013			
2014			
2015			
2016			
2017			
2018			
2019			
2020			
2021			
2022			
2023			
2024			
2025			
2026			
2027			

Note: Actual contingent funding amounts will depend on what scenario is encountered by the District. See narrative in Section VIII for specific contingency procedures.

Table VIII-8
Summary of District Revenues and Expenditures

Description	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
Beginning Balance	\$572,310	\$615,450	\$611,850	\$452,719	\$450,049	\$449,901	\$363,164	\$361,952	\$278,443	\$202,945	\$223,608	\$245,381	\$263,214	\$277,054	\$286,850	\$262,549	\$259,096	\$256,437	\$249,516	
Revenues																				
Generation Fee	\$837,513	\$825,229	\$820,212	\$819,392	\$819,883	\$820,375	\$820,867	\$821,360	\$821,853	\$822,346	\$822,839	\$823,333	\$823,827	\$824,321	\$824,816	\$825,311	\$825,806	\$826,302	\$826,797	
User Fees	\$16,832	\$16,369	\$16,000	\$16,010	\$16,019	\$16,029	\$26,038	\$26,054	\$26,070	\$26,085	\$26,101	\$26,117	\$26,132	\$26,148	\$26,164	\$26,179	\$26,195	\$26,211	\$26,227	
Recycling Revenue	\$10,439	\$31,388	\$15,000	\$15,009	\$15,018	\$15,027	\$15,036	\$15,045	\$15,054	\$15,063	\$15,072	\$15,081	\$15,090	\$15,099	\$15,108	\$15,117	\$15,126	\$15,136	\$15,145	
Grants	\$27,500	\$7,250	\$4,250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Reimbursements	\$19,520	\$2,778	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	
Misc Revenue	\$52	\$3,229	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
Total Revenue	\$911,855	\$886,244	\$857,962	\$852,910	\$853,421	\$853,931	\$864,442	\$864,959	\$865,477	\$865,994	\$866,512	\$867,031	\$867,550	\$868,069	\$868,588	\$869,108	\$869,628	\$870,148	\$870,668	
Expenditures																				
District Administration Budget	Program #																			
Personnel - Salaries, Medicare and OPERS	Admin-1	\$265,202	\$292,255	\$341,500	\$296,200	\$299,162	\$302,154	\$305,175	\$308,227	\$311,309	\$314,422	\$317,566	\$320,742	\$323,950	\$327,189	\$330,461	\$333,766	\$337,103	\$340,474	\$343,879
Personnel - Workers Comp, Unemployment	Admin-2	\$3,398	\$3,529	\$5,500	\$5,555	\$5,611	\$5,723	\$5,780	\$5,838	\$5,897	\$5,956	\$6,015	\$6,074	\$6,133	\$6,192	\$6,251	\$6,310	\$6,369	\$6,428	\$6,487
Personnel - Health and Life Insurance	Admin-3	\$42,604	\$48,383	\$54,074	\$38,000	\$38,760	\$39,535	\$40,326	\$41,132	\$41,955	\$42,794	\$43,650	\$44,523	\$45,414	\$46,322	\$47,248	\$48,193	\$49,157	\$50,140	\$51,143
Liability Insurance	Admin-4	\$3,503	\$5,998	\$6,000	\$6,000	\$6,000	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
Miscellaneous Office Expense	Admin-5	\$1,176	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Indirect Costs	Admin-6	\$29,411	\$33,010	\$26,800	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	
Travel	Admin-7	\$16,300	\$13,161	\$8,800	\$6,500	\$6,500	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	
Office Supplies	Admin-8	\$7,484	\$9,857	\$4,000	\$4,000	\$4,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	
Office Equipment Rental	Admin-9	\$2,886	\$2,520	\$10,700	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	
Communications	Admin-10	\$10,994	\$6,582	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	\$6,100	
Utilities and Security	Admin-11	\$11,223	\$9,178	\$8,100	\$8,221	\$8,345	\$8,470	\$8,597	\$8,726	\$8,857	\$8,990	\$9,125	\$9,262	\$9,401	\$9,542	\$9,685	\$9,830	\$9,977	\$10,127	\$10,279
Building Repair	Admin-12	\$7,915	\$20,069	\$36,100	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
Equipment	Admin-13	\$14,366	\$21,041	\$40,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	
Loan Repayment	Admin-14	\$60,460	\$38,944	\$38,819	\$36,694	\$35,568	\$34,444	\$33,244	\$32,000	\$30,750	\$29,500	\$28,250	\$27,000	\$25,750	\$24,500	\$23,250	\$22,000	\$20,750	\$19,500	
Printing and Advertising	Admin-15	\$20,060	\$13,426	\$15,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	
Professional and Legal	Admin-16	\$7,400	\$14,397	\$35,000	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	
Subtotal		\$504,382	\$532,350	\$636,493	\$488,770	\$486,546	\$503,426	\$511,223	\$518,824	\$511,118	\$490,262	\$489,456	\$493,702	\$498,000	\$502,350	\$536,753	\$516,211	\$515,723	\$520,291	\$524,915
Residential/Commercial/Industrial																				
Clark County Recycling Center	CC-01	\$25,619	\$30,460	\$39,000	\$39,023	\$39,047	\$39,070	\$39,094	\$39,117	\$39,141	\$39,164	\$39,188	\$39,211	\$39,235	\$39,258	\$39,282	\$39,305	\$39,329	\$39,352	
Curbside Recycling	CC-02	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Franchise Waste Collection Program	CC-03	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Drop-Off Recycling	CC-04	\$44,517	\$1,912	\$4,800	\$4,803	\$4,806	\$4,809	\$4,812	\$4,814	\$4,817	\$4,820	\$4,823	\$4,826	\$4,829	\$4,832	\$4,835	\$4,838	\$4,841	\$4,844	
Yard Waste Management	CC-05	\$2,297	\$285	\$4,000	\$4,002	\$4,005	\$4,007	\$4,010	\$4,012	\$4,014	\$4,017	\$4,019	\$4,022	\$4,024	\$4,026	\$4,029	\$4,031	\$4,034	\$4,036	
Household Hazardous Waste Collection	CC-06	\$14,547	\$12,436	\$13,000	\$13,008	\$13,016	\$13,023	\$13,030	\$13,037	\$13,044	\$13,051	\$13,058	\$13,065	\$13,072	\$13,079	\$13,086	\$13,093	\$13,100	\$13,107	
Electronics Recycling	CC-07	\$15,970	\$15,582	\$5,700	\$5,703	\$5,707	\$5,710	\$5,714	\$5,717	\$5,721	\$5,724	\$5,727	\$5,731	\$5,734	\$5,738	\$5,741	\$5,745	\$5,748	\$5,752	
Scrap Tire Collection	CC-08	\$6,206	\$9,328	\$10,000	\$10,006	\$10,012	\$10,018	\$10,024	\$10,030	\$10,036	\$10,042	\$10,048	\$10,054	\$10,060	\$10,066	\$10,072	\$10,078	\$10,084	\$10,090	
Government Office Recycling	CC-09	\$0	\$3,392	\$500	\$500	\$501	\$501	\$501	\$502	\$502	\$502	\$503	\$503	\$503	\$504	\$504	\$504	\$505	\$505	
Business Paper Recycling	CC-10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Education and Awareness	CC-11	\$6,941	\$15,369	\$28,000	\$15,000	\$15,000	\$15,009	\$15,018	\$15,027	\$15,036	\$15,045	\$15,054	\$15,063	\$15,072	\$15,081	\$15,090	\$15,099	\$15,108	\$15,117	
Business Waste Reduction Assistance (BWRAP)	CC-12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Litter Prevention/Clean-Up Programs	CC-13	\$109,549	\$125,378	\$134,000	\$134,080	\$134,161	\$134,241	\$134,322	\$134,402	\$134,483	\$134,564	\$134,645	\$134,725	\$134,806	\$134,887	\$134,968	\$135,049	\$135,130	\$135,211	
Health Department Funding	CC-14	\$138,688	\$140,600	\$140,600	\$140,684	\$140,769	\$140,853	\$140,938	\$141,022	\$141,107	\$141,192	\$141,276	\$141,361	\$141,446	\$141,531	\$141,616	\$141,701	\$141,786	\$141,871	
Legal and Consulting (Included in Admin #16)	CC-15	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Other Facilities	CC-16	\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Curbside Recycling Grants	CC-17	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Food Waste Management	CC-18	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Disaster Debris Management	CC-19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal		\$364,334	\$354,742	\$380,600	\$366,811	\$367,022	\$437,242	\$354,431	\$429,644	\$429,857	\$355,070	\$355,283	\$355,496	\$355,709	\$355,923	\$356,136	\$356,350	\$356,564	\$356,778	\$356,992
Total Expenditures		\$868,716	\$887,092	\$1,017,093	\$855,581	\$853,568	\$940,668	\$865,654	\$948,468	\$940,975	\$845,332	\$844,739	\$849,198	\$853,709	\$858,273	\$872,561	\$872,287	\$877,068	\$881,906	
Difference		\$43,139	-\$848	-\$159,131	-\$2,670	-\$148	-\$86,737	-\$1,212	-\$83,509	-\$75,498	\$20,663	\$21,773	\$17,833	\$13,841	\$9,796	-\$24,302	-\$3,453	-\$2,659	-\$6,920	-\$11,238
Ending Balance		\$615,450	\$614,601	\$452,719	\$450,049	\$449,901	\$363,164	\$361,952	\$278,443	\$202,945	\$223,608	\$245,381	\$263,214	\$277,054	\$286,850	\$262,549	\$259,096	\$256,437	\$249,516	\$238,279

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

A. Existing Rules

According to Ohio Revised Code Section 3734.53(C), "the solid waste management plan of a county or joint district may provide for the adoption of rules under division (G) of section 343.01 of the Revised Code after approval of the plan under section 3734.521 or 3734.55 of the Revised Code." The District reserves the authority for the Board to adopt rules under the provision of Ohio Revised Code.

The District has one existing rule which is provided below:

District Amended Rule 1-796 (adopted March 16, 2000) presently provides that:

"No person, municipal corporation, township, or other political subdivision shall construct, enlarge, or modify any solid waste transfer, disposal, recycling, or resource recovery facility until general plans and specifications for the proposed improvement have been submitted to and approved by the Clark County, Ohio Board of County Commissioners as complying with the Solid Waste Management Plan of the Clark County Solid Waste Management District."

"General plans and specifications shall be submitted to the attention of the Clark County Solid Waste Director, c/o the Clark County Commission, 50 East Columbia, Springfield, Ohio 45501. Such general plans and specifications shall include all information necessary for the Board of Commissioners to evaluate the County level interests identified in the siting review process contained in the District's Solid Waste Management Plan."

"General plans and specifications submitted to comply with this Rule shall not include information that is required to determine the proposed facility's compliance with engineering design criteria or which address issues that do not directly relate to the County level interests identified in the District's Plan. The submission of any such extraneous material may be cause for the Board to require the developer to submit revised general plans and specifications which contain information that is appropriate for the siting review process."

"No person, municipal corporation, township, or other political subdivision shall construct, modify or enlarge any solid waste transfer, disposal, recycling, or resource recovery facility that does not comply with the Clark

County, Ohio Solid Waste Management Plan, as determined by the Board of Commissioners of Clark County, Ohio.”

There are no current plans to adopt new rules at the time of the development of this *Plan Update*.

B. Proposed Rules

The District reserves the right to adopt rules under division (G) of section 343.01 and under division (c) of section 3734.53 of the Revised Code. Such rules shall comply with the legislative grant of authority to the District to promulgate such rules and to regulate solid waste services, facilities and operation of the District in accordance with the Plan or amended Plan of the District and/or as authorized by applicable statutes, governmental regulations, local ordinances and rules of the District as now existing or hereafter enacted or amended.

The District may adopt rules in the future that pertain to the following provisions:

- Siting procedures and criteria contained in Section VI.
- Other areas of the plan update that are in the best interest of the District.

Rule adoption shall follow the procedures listed in Section C before becoming final.

Rule Making Authority - ORC 343.01

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 343.01, Divisions (G)(1), (G)(2), (G)(3) and (G)(4) including the following:

ORC 343.01(G)(1)

To the extent authorized by the solid waste management plan of the district approved under section 3734.521 or 3734.55 of the Revised Code or subsequent amended plans of the district approved under section 3734.521 or 3734.56 of the Revised Code, the board of county commissioners of a county district or board of directors of a joint district may adopt, publish, and enforce rules doing any of the following:

- (1) Prohibiting or limiting the receipt of solid wastes generated outside the district or outside a service area prescribed in the solid waste

management plan or amended plan, at facilities located within the solid waste management district, consistent with the projections contained in the plan or amended plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code. However, rules adopted by a board under division (G)(1) of this section may be adopted and enforced with respect to solid waste disposal facilities in the solid waste management district that are not owned by a county or the solid waste management district only if the board submits an application to the director of environmental protection that demonstrates that there is insufficient capacity to dispose of all solid wastes that are generated within the district at the solid waste disposal facilities located within the district and the director approves the application. The demonstration in the application shall be based on projections contained in the plan or amended plan of the district. The director shall establish the form of the application. The approval or disapproval of such an application by the director is an action that is appealable under section 3745.04 of the Revised Code.

In addition, the director of environmental protection may issue an order modifying a rule adopted under division (G)(1) of this section to allow the disposal in the district of solid wastes from another county or joint solid waste management district if all of the following apply:

- (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;
- (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
- (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
- (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;

- (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (G)(1)(a) to (d) of this section have been met;
- (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years.

Any order issued under division (G)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

ORC 343.01(G)(2)

Governing the maintenance, protection, and use of solid waste collection or other solid waste facilities located within its district. The rules adopted under division (G)(2) of this section shall not establish design standards for solid waste facilities and shall be consistent with the solid waste provisions of Chapter 3734. of the Revised Code and the rules adopted under those provisions. The rules adopted under division (G)(2) of this section may prohibit any person, municipal corporation, township, or other political subdivision from constructing, enlarging, or modifying any solid waste facility until general plans and specifications for the proposed improvement have been submitted to and approved by the board of county commissioners or board of directors as complying with the solid waste management plan or amended plan of the district. The construction of such a facility shall be done under the supervision of the county sanitary engineer or, in the case of a joint district, a county sanitary engineer designated by the board of directors, and any person, municipal corporation, township, or other political subdivision proposing or constructing such improvements shall pay to the county or joint district all expenses incurred by the board in connection therewith. The sanitary engineer may enter upon any public or private property for the purpose of making surveys or examinations necessary for designing solid waste facilities or for supervising the construction, enlargement, modification, or operation of any such facilities. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with the sanitary engineer or his authorized assistants entering upon such property for that purpose. If actual damage is done to property by the making of the surveys and examinations, a board shall pay the reasonable value of that damage to the owner of the property damaged, and the cost shall be included in the financing of the improvement for which the surveys and examinations are made.

ORC 343.01(G)(3)

Governing the development and implementation of a program for the inspection of solid wastes generated outside the boundaries of this state that are disposed of at solid waste facilities included in the district's solid waste management plan or amended plan. A board of county commissioners or board of directors or its authorized representative may enter upon the premises of any solid waste facility included in the district's solid waste management plan or amended plan for the purpose of conducting the inspections required or authorized by the rules adopted under division (G)(3) of this section. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with a board of county commissioners or directors or its authorized representative entering upon the premises of any such solid waste facility for that purpose.

ORC 343.01(G)(4)

Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan or amended plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

Rule Making Authority - ORC 3734.53

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 3734.53, Division (C) including the following:

- (1) Prohibiting or limiting the receipt at facilities covered by the plan of solid wastes generated outside the district or outside a prescribed service area consistent with the projections under divisions (A)(6) and (7) of this section, except that the director of environmental protection may issue an order modifying a rule authorized to be adopted under division (C)(1) of this section to allow the disposal in the district of wastes from another county or joint solid waste management district if all of the following apply:

- (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;
 - (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
 - (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
 - (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
 - (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (C)(1)(a) to (d) of this section have been met;
 - (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (C)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.
- (2) Governing the maintenance, protection, and use of solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities within the district and requiring the submission of general plans and specifications for the construction, enlargement, or modification of any such facility to the board of county commissioners or board of directors of the district for review and approval as complying with the plan or amended plan of the district;
- (3) Governing development and implementation of a program for the inspection of solid wastes generated outside the boundaries of the

state that are being disposed of at solid waste facilities included in the district's plan;

- (4) Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

C. Rule Approval Process

Proposed rules shall follow the steps presented below prior to final approval by the Board of County Commissioners.

1. Public Notice of the solid waste management rules in the Springfield News-Sun. The District may opt to include the public notice on their website, social media and other publications at their discretion.
2. Thirty-day public comment period of the proposed rules.
3. If requested by public interest in the rules, a public hearing on the proposed rules shall be conducted. Public interest will be determined by the District Director with input from the Policy Committee and Board of Directors.
4. Rule adoption at a Board of Directors meeting.

The Board of County Commissioners, in and for Clark County, Ohio, met this 4th day of October 1988, in regular session, pursuant to adjournment, in accordance with Section 121.22, O.R.C. (Sunshine Law), with the following members present, viz:

Merle Grace Kearns

and

J. Newton Oliver

RE: ESTABLISH SOLID WASTE
MANAGEMENT DISTRICT:

RESOLUTION #1,084-88

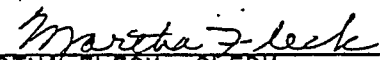
Commissioner Oliver moved, upon the recommendation of the County Administrator, pursuant to provision of Am. H.B. #592, [Section 343.01 (A) (1), Ohio Revised Code and Section 3734.52 (B), O.R.C.], to establish by this Resolution, a County-Wide Solid Waste Management District. Be it further resolved that said District shall consist of all the incorporated and unincorporated territory within Clark County, Ohio.

Commissioner Kearns seconded the motion and the roll being called for its passage, the vote resulted as follows:

Commissioner Oliver, Yes:

Commissioner Kearns, Yes.

I, Martha Fleck, Clerk to the Board of County Commissioners, do hereby certify that the above is a true and correct copy of a motion as recorded in the Journal of the Clark County Commissioners, under date of October 4th, 1988.



MARTHA FLECK, CLERK

cc: County Commissioners
County Prosecutor
Township Trustee Presidents
County Administrator
Assistant Administrator/Development
Director, Ohio EPA
County Sanitary Engineer
City Manager-Springfield
City Manager-New Carlisle
Village Manager-South Charleston
Village Manager-Enon
Village Mayors
Committee Members

PUBLIC NOTICE
CLARK COUNTY WASTE MANAGEMENT DISTRICT

Public Comment Period for Draft Solid Waste Management Plan

The Clark County Waste Management District (District) is establishing a 30-day written comment period (Tuesday, May 1, 2012 until Wednesday, May 30, 2012) on the draft solid waste management plan (Ohio Revised Code Section 3734.55). The District has prepared a draft solid waste management plan as required by Section 3734.54 of the Ohio Revised Code. The draft plan is available for review on the District's Website at: www.32trash.org or at the following locations:

Clark County Waste Management District
1602 W. Main Street
Springfield, Ohio 45504

Please call (937) 521-2021 with any questions about the Plan Update or the opportunity to review a copy.

Written comments should be sent to Ms. Alice Godsey, District Director, Clark County Waste Management District, 1602 W. Main Street, Springfield, Ohio 45504.

The draft solid waste plan includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of progress made toward achieving state waste reduction goals, cost to finance the plan and District rules. This draft plan is an update to a previously approved solid waste plan. This plan includes the following programs: Clark County Recycling Center, Curbside Recycling, Franchise Waste Collection Program, Drop-Off Recycling, Yard Waste Management, Household Hazardous Waste Collection, Electronics Recycling, Scrap Tire Collection, Government Office Recycling, Business Paper Recycling, Education and Awareness, Business Waste Reduction Assistance (BWRAP), Litter Prevention/Clean-Up Programs, Health Department Funding, Legal and Consulting, Operating Contingency, Recycling Contingency, Other Facilities, Curbside Recycling Grants, Food Waste Management, Disaster Debris Management.

The District achieves the 25% residential/commercial waste reduction goal and 50% industrial waste reduction goal in this draft plan. In 2009, the District reduced the residential/commercial sector waste stream by 38% and the industrial sector waste stream by 96%.

The draft plan includes a demonstration of access to capacity that determines there is more than fifteen years of landfill capacity available to the District. Under this plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 of the Ohio Revised Code.

The District currently funds plan programs and current operations through a generation fee of \$8.50 per ton. This fee is not proposed to change during the planning period.

The District will hold one public hearing to obtain oral comments regarding the draft plan on Tuesday, June 5, 2012, from 2:00 pm to 3:00 pm at the Springview Government Center, 3130 East Main Street, Room 151, Springfield, Ohio 45505.

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CLARK COUNTY WASTE MANAGEMENT DISTRICT
30-DAY WRITTEN COMMENT PERIOD AND PUBLIC HEARING
Clark County Commissioners, Municipalities, Townships

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CLARK COUNTY WASTE MANAGEMENT DISTRICT

Public Comment Period and Public Hearing for Draft Solid Waste Management Plan

**Attention: Ohio EPA Director, Adjacent Solid Waste Management Districts,
50 Largest Industrial/Commercial/Institutional Solid Waste Generators
and their Trade Associations**

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Public Hearing for Draft Solid Waste Management Plan

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**PUBLIC NOTICE
CLARK COUNTY WASTE
MANAGEMENT DISTRICT**

Public Hearing for Draft Solid
Waste Management Plan

The Clark County Waste Management District (District) will hold one public hearing to obtain oral comments regarding the draft solid waste management plan on Tuesday, June 5, 2012 from 2:00 pm to 3:00 pm at the Springfield Government Center, 3130 East Main Street, Room 151, Springfield, Ohio 45505 as required by Sections 3734.54 and 3734.55 of the Ohio Revised Code.

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District
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Advertising COX Ohio Publishing Receipt

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Ad Name 15577278A Reply Request
Ad Id 15577278 Standby Type

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Class 1235 Rate NLG Pay Type BI
Copy Line Draft Solid Waste Management Rep Heather Hart Colors 0
Editions NDLY/WEBC/ G. D. # Tear sheets

Earliest Production Deadline: 00/00/00

Lines.....	134
Depth.....	10.98
Columns...	1
Price	301.50
Other Charges	0.00
Discounts	0.00
Total	301.50

**PUBLIC NOTICE
CLARK COUNTY WASTE MAN
AGREEMENT NOTICE**

**Public Hearing for Draft Solid
Waste Management Plan**

The Clark County Board of Health and Board of Health Officers are hereby notified that the Clark County Board of Health has adopted a Solid Waste Management Plan for the County of Clark, Ohio. The Board of Health has adopted the plan on April 23, 2012. The plan is available for public review and comment at the following address: Clark County Board of Health, 1602 W. Main Street, Springfield, Ohio 45504. The plan is available for public review and comment from April 23, 2012 to May 1, 2012. The plan is available for public review and comment from April 23, 2012 to May 1, 2012. The plan is available for public review and comment from April 23, 2012 to May 1, 2012.

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Ad shown is not actual print size

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CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Clark County 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.

Representing the County Commissioners
Karen B. Duncan
_____ Date Signed
10/18/2011

Representing CEO of Largest City
Alan Patterson
_____ Date Signed
10/18/11

Representing County Health Department
_____ Date Signed

Representing Townships
John W. McDaniel
_____ Date Signed
10/18/11

Representing Commercial/Industrial Generators
Norman E. Cord Jr.
_____ Date Signed
10/18/11

Representing the Public
_____ Date Signed

Representing the Public
_____ Date Signed



The Board of

Clark County Commissioners

JOHN DETRICK

RICHARD L. LOHNES

DAVID HARTLEY

50 East Columbia Street
P.O. Box 2639
Springfield, Ohio 45501-2639

Phone: 937.521.2005
Fax: 937.328.4588
Email: commission@clarkcountyohio.gov

October 19, 2011

Mr. Charles Patterson
Health Commissioner
Clark County Combined Health District
529 East Home Road
Springfield, Ohio 45503

Dear Mr. Patterson:

I, John Detrick, a member of the Clark County Solid Waste Policy Committee, was not able to attend the Policy Committee meeting on October 18, 2011. However, I have reviewed the Draft Plan Update and support the submittal of the Draft Plan Update to Ohio EPA for review. Had I been able to attend the Policy Committee meeting on October 18, I would have signed the Certification Statement.

Sincerely,

John Detrick
Clark County Commissioner

Resolution Adopting the Solid Waste Management Plan

Resolution # 2012-01

A RESOLUTION DECLARING THAT THE AMENDED SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT HAS BEEN ADOPTED.

Whereas, the Clark County Waste Management District (District") completed the draft amended Solid Waste Management Plan ("Plan") and submitted it to the Ohio Environmental Protection Agency for review and comment on November 2, 2011 and the Ohio Environmental Protection Agency provided comments in a non-binding advisory opinion on December 16, 2011.

Whereas, the District's Policy Committee has reviewed the non-binding advisory opinion received from the Ohio Environmental Protection Agency and taken these comments into consideration and incorporated changes into the amended Plan as appropriate;

Whereas the District has conducted a 30-day comment period from May 1, 2012 to May 30, 2012 and a public hearing held on June 5, 2012 to provide the public an opportunity to have comment on the Plan;

NOW, THEREFORE, BE IT RESOLVED that the District Policy Committee:

1. Adopts the amended Plan as the District Plan in the form submitted for public comment and the public hearing.
2. Certifies that, to the best of its knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the District's Plan, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the fifteen-year period covered by the Plan, are accurate and are in compliance with the requirements of the District Solid Waste Management Plan Format Revision 3.0.
3. Directs that copies of the adopted Plan be delivered to the County Commission and to the legislative authority of each municipal corporation and township under the jurisdiction of the District for ratification.

This resolution shall be in effect immediately upon its adoption

Voting for the Resolution:

Jim W. McDaniel

Erard H. Florin

David Hartley

Cheryl Holloman

Karen S. Duncan

Norman E. Carl Jr.

Kathy Estep

Total Votes for the resolution: 7

Voting Against the Resolution:

Total Votes against the resolution: 0



CLARK COUNTY
Waste Management District
Reducing Waste, Litter & Pollution

Solid Waste Management Plan Ratification Results

Community	Total Population	2011 Population	% Of Population	Approved Population	Rejected Population
Clark County Commissioners (Veto Power)	137,691	137,691	100.00%	137,691	0
Cities					
New Carlisle		5,759	4.18%	5,759	0
Springfield		60,333	43.82%	60,333	0
Subtotal	66,092		48.00%	66,092	0
Percentage of Cities Approving the Plan				100.00%	
Villages					
Catawba		272	0.20%	272	0
Clifton		48	0.03%	48	0
Donnelsville		301	0.22%	DNV	DNV
Enon		2,404	1.75%	DNV	DNV
North Hampton		475	0.34%	475	0
South Charleston		1,685	1.22%	DNV	DNV
South Vienna		381	0.28%	DNV	DNV
Tremont		372	0.27%	372	0
Subtotal	5,938		4.31%	1,167	0
Percentage of Villages Approving the Plan				19.65%	
Townships					
Bethel		12,382	8.99%	12,382	0
German		7,079	5.14%	DNV	DNV
Green		2,737	1.99%	2,737	0
Harmony		3,177	2.31%	3,177	0
Madison		847	0.62%	847	0
Mad River		8,700	6.32%	DNV	DNV
Moorefield		12,378	8.99%	12,378	0
Pike		3,230	2.35%	3,230	0
Pleasant		2,952	2.14%	2,952	0
Springfield		12,179	8.85%	12,179	0
Subtotal	65,661		47.69%	49,882	0
Percentage of Townships Approving the Plan				75.97%	
Population Approving/Rejecting Plan				117,141	0
Ratification Approval Percentage (75% Needed)				85.08%	

The solid waste plan exceeded the ratification requirements that the communities representing 75% of the Population of Clark County approve the plan, the County Commissioners approve the plan and the largest city (Springfield) approve the plan.

PLEASANT TOWNSHIP TRUSTEES
P.O. BOX 39
CATAWBA, OHIO 43010

RESOLUTION 12-10

October 2, 2012

**A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE
CLARK COUNTY WASTE MANAGEMENT DISTRICT**

WHEREAS; Pleasant Township, Clark County, Ohio is located within the jurisdiction of the Clark County Waste Management District.

WHEREAS; the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; Pleasant Township, Clark County, Ohio must decide whether it approves of the said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Board of Trustees of Pleasant Township, Clark County, Ohio:

1. The Board of Trustees of Pleasant Township, Clark County, Ohio approves the District Solid Waste Management Plan.
2. The Pleasant Township Fiscal Officer is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Board of Trustees of Pleasant Township, Clark County, Ohio concerning and relating to the passage of this resolution was adopted in an

open meeting of this Board of Trustees of Pleasant Township, Clark County, Ohio and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Mr. Dana Bumgardner made the motion for the adoption of this resolution; seconded by Mr. Craig Wiseman. Vote as follows:

Mr. Steven Fry	YES
Mr. Dana Bumgardner	YES
Mr. Craig Wiseman	YES

I, Patricia Wilson, Fiscal Officer of Pleasant Township, Clark County, Ohio certify this Resolution to be a true and correct copy as adopted by the Board of Pleasant Township Trustees and recorded in the official record of proceeding of the regular session meeting held on October 2, 2012.



Patricia Wilson,
Fiscal Officer

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; Pike Township (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; Pike Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (county council, council or trustees) of Pike Twp (county, city, village, township):

- 1. The Township (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
- 2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
- 3. That it is found and determined that all formal actions of the Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of the Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: X Date: November 6, 2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Chyl Sigler

RECEIVED
NOV 14 2012

Resolution/Ordinance No. 629

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the VILLAGE OF CATAWBA (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the VILLAGE OF CATAWBA (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the COUNCIL (county council, council or trustees) of VILLAGE OF CATAWBA (county, city, village, township):

1. The VILLAGE (county, city, village, township) approves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this COUNCIL (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this COUNCIL (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: 4-0 Date: 11-5-12 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Margie L. Burr, FISCAL OFFICER

RECEIVED

NOV -9 2012

The Board of County Commissioners, in and for Clark County, Ohio, met this 25th day of September, 2012 in regular session, pursuant to adjournment, in accordance with Section 121.22 O.R.C. (Sunshine Law), with the following members present, viz:

John Detrick

Richard L. Lohnes

David Hartley

Resolution 2012-0775

Adopt the Solid Waste Management Plan for the Clark County Waste Management District

WHEREAS, the County is located within the jurisdiction of the Clark County Waste Management District (District); and,

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and,

WHEREAS, the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and,

WHEREAS, the Board of Clark County Commissioners must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Board of County Commissioners of Clark County:

1. The Board of Clark County Commissioners approves the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Board concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Commissioner Hartley moved to approve the Solid Waste Management Plan.

Commissioner Lohnes seconded the motion and the roll being called for its passage, the vote resulted as follows:

Commissioner Hartley, Yes; Commissioner Lohnes, Yes; Commissioner Detrick, Yes

I, Megan Lokai, Clerk to the Board of County Commissioners, do hereby certify that the above is a true and correct copy of a motion as recorded in the Journal of the Clark County Commissioners, under the date of September 25, 2012.

Megan Lokai

Megan Lokai, Clerk

copy: County Auditor, County Administrator, Requesting Department(s), WMDP file

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the Bethel Township (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the Bethel Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the trustees (county council, council or trustees) of Bethel Township (county, city, village, township):

1. The _____ (county, city, village, township) approves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this _____ (Board) council or (trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this _____ (Board, council or (trustees)) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: X Date: 9-25-12 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Melanie M Godman

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SEP 27 2012

Resolution/Ordinance No. 10-04-12

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN
FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the MADISON TOWNSHIP (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the MADISON TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (county council, council or trustees) of MADISON (county, city, village, township).

1. The MADISON (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this TRUSTEES (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this TRUSTEES (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: X Date: 10-8-12 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Thomas D. Houn, Pres.

RECEIVED
OCT 10 2012

Resolution/Ordinance No. R-22-2012

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the Harmony Township (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the Harmony Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (county council, council or trustees) of Harmony Twp, Clark (county, city, village, township):

1. The Township (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Board of trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board of trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: ✓ Date: 9/13/2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Marvin Jager, Fiscal Officer

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the Village of Clifton (~~county, city, village, township~~) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the Village of Clifton (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Council (county council, council or trustees) of Clifton (~~county, city, village, township~~):

1. The Clifton (~~county, city, village, township~~) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Council (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance, were adopted in an open meeting of this Council (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: ✓ Date: 9/10/12 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: [Signature]

COPY

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SEP 13 2012

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN
FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the GREEN TOWNSHIP (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the GREEN TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (county council, council or trustees) of Green Township (county, city, village, township):

1. The Green Township (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Township Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Township Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: unanimous Date: Sept. 18, 2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Sharon A Waddler

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the TOWNSHIP (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the MOOREFIELD TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (county council, council or trustees) of MOOREFIELD TWP (county, city, village, township):

1. The Township (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Board of Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board of Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: YES Date: 9-11-2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Jack Miller

COPY

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SEP 13 2012

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the GREEN TOWNSHIP (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the GREEN TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (county council, council or trustees) of Green Township (county, city, village, township):

1. The Green Township (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Township Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Township Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: unanimous Date: Sept. 18, 2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Sharon A Waddler

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SEP 24 2012

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the Village of North Hampton (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the Village of North Hampton (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Council (county council, council or trustees) of Village of N. Hampton (county, city, village, township):

1. The Village of North Hampton (county, city, village, township) approves (circle one) disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Council (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Council (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: ✓ Date: September 11, 2012 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: George Belden

RESOLUTION 12-15R

**A RESOLUTION ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR
THE CLARK COUNTY WASTE MANAGEMENT DISTRICT**

WHEREAS, the City of New Carlisle is located within the jurisdiction of the Clark County Waste Management District (District); and

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan, in accordance with the Ohio Revised Code, Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the District has provided a copy of the Draft Final Solid Waste Management Plan to each of the legislative authorities of the District for ratification; and

WHEREAS, the City of New Carlisle must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF NEW CARLISLE hereby resolves that

SECTION 1. the City Council of New Carlisle approves/disapproves (circle one) the District Solid Waste Management Plan, a copy of which is here attached, and

SECTION 2. furthermore, a copy of this resolution will be mailed to Ms. Alice Godsey, District Coordinator, Clark County Waste management District, 1602 West main Street, Springfield, Ohio 45504, and

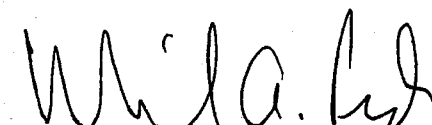
SECTION 3. it is found and determined that all formal actions of this Council concerning and relating to the passage of this resolution were adopted in an open meeting of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Passed this 17TH day of SEPTEMBER, 2012.


Lowell McGlothlin, MAYOR


Clair Miller, CLERK OF COUNCIL

APPROVED AS TO FORM:


Miguel A. Pedraza, Jr., DIRECTOR OF LAW

On Resolution of the Board of Trustees of Springfield Township, the following is approved by the Springfield Township Trustees.

Motion *Mr. Foley* Second *Mr. Scoby*
Mr. Scoby *yes* Mr. Foley *yes* Dr. Wells *yes*

TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT,

WHEREAS, SPRINGFIELD TOWNSHIP IS LOCATED WITHIN THE JURISDICTION OF THE CLARK COUNTY WASTE MANAGEMENT DISTRICT; AND,

WHEREAS, THE DISTRICT POLICY COMMITTEE PREPARED AND ADOPTED A FINAL DRAFT OF THE SOLID WASTE MANAGEMENT PLAN IN ACCORDANCE WITH OHIO REVISED CODE SECTIONS 3734.53, 3734.54 AND 3734.55; AND

WHEREAS, THE DISTRICT HAS PROVIDED A COPY OF THE DRAFT FINAL SOLID WASTE MANAGEMENT PLAN FOR RATIFICATION TO EACH LEGISLATIVE AUTHORITIES OF THE DISTRICT; AND,

WHEREAS, THE SPRINGFIELD TOWNSHIP BOARD OF TRUSTEES MUST DECIDE WHETHER IT APPROVES OF SAID SOLID WASTE MANAGEMENT PLAN WITHIN NINETY (90) DAYS OF RECEIPT OF THE FINAL DRAFT PLAN.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES:

1. THE BOARD OF TRUSTEES APPROVES THE DISTRICT SOLID WASTE PLAN.
2. THE FISCAL OFFICER IS HEREBY DIRECTED TO SEND A COPY OF THIS RESOLUTION TO ATTENTION OF MS. ALICE GODSEY, DISTRICT COORDINATOR, CLARK COUNTY WASTE MANAGEMENT DISTRICT, 1602 WEST MAIN ST., SPRINGFIELD, OHIO 45504.

3. THAT IT IS FOUND AND DETERMINED THAT ALL FORMAL ACTIONS OF THIS BOARD CONCERNING AND RELATING TO THE PASSAGE OF THIS RESOLUTION/ORDINANCE WERE ADOPTED IN AN OPEN MEETING OF THIS BOARD AND OF ANY OF ITS COMMITTEES THAT RESULTED IN SUCH FORMAL ACTIONS WERE IN MEETINGS OPEN TO THE PUBLIC IN COMPLIANCE WITH ALL LEGAL REQUIREMENTS INCLUDING SECTIONS 121.22 OF THE OHIO REVISED CODE.

I, MIKE HIVELY, Fiscal Officer of the Board of Trustees of Springfield Township, in said County, and in whose custody the Files and Records of said Board are required by the Laws of State of Ohio to be kept, do hereby certify that the foregoing is taken and copies from the original Resolution # 002120 dated 10-9-12, now on file with said Board, that the foregoing has been compared by me with said original document, and that the same is a true and correct copy WITNESS my signature, this 9 day October, 2012
Mike Hively
Fiscal Officer of the Board of Trustees of Springfield Township
Clark County, Ohio

JIM SCOBY YES NO ABSTAIN

TIM FOLEY YES NO ABSTAIN

R.DEAN WELLS YES NO ABSTAIN

1st reading 9/10/12
2nd " 9/24/12
3rd " 10/8/12

Resolution/Ordinance No. 201221

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE CLARK COUNTY WASTE MANAGEMENT DISTRICT

WHEREAS; the Village of Tremont (county, city, village, township) is located within the jurisdiction of the Clark County Waste Management District (District).

WHEREAS, the District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55.

WHEREAS; the District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS; the Village of Tremont (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Council (county council, council or trustees) of Village of Tremont (county, city, village, township):

1. The Village of Tremont (county, city, village, township) approves/disapproves (circle one) the District Solid Waste Management Plan
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Ms. Alice Godsey, District Coordinator, Clark County Waste Management District, 1602 West Main Street, Springfield, Ohio 45504.
3. That it is found and determined that all formal actions of this Council (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Council (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved: 6 years Date: 10/8/12 OR

Disapproved: _____ Date: _____

Signature of Appropriate Officer: Paula Johnson, Mayor
PAULA JOHNSON MAYOR

RECEIVED
OCT 15 2012

The State of Ohio, Clark County, ss.

I, Carole K. Clippinger, Clerk of Village of Tremont do hereby certify that the foregoing is taken and copied from the record of the proceeding of said Village; that the same has been compared by me with the Ordinance on said Record and that it is a true or correct copy thereof.

Witness my signature, this 8 day of October, 2012.


Carole K. Clippinger, Clerk

A RESOLUTION NO. 5749

Endorsing and supporting the Clark County Waste Management District 2013 Solid Waste Management Plan, and declaring an emergency.

...oooOOOooo...

WHEREAS, the Clark County Waste Management District has developed a 2013 Solid Waste Management Plan as required by the Ohio Environmental Protection Agency; and

WHEREAS, the 2013 Solid Waste Management Plan represents the needs and desires of the Clark County community with regard to solid waste disposal as well as waste reduction and recycling programs and services that will be offered; and

WHEREAS, it is necessary that this Resolution become effective immediately so that this plan may be approved within a 90-day ratification timeframe of September 4, 2012 through December 2, 2012, which this Commission finds creates an emergency to preserve the public peace, health, safety, welfare and property, necessitating the immediate effectiveness of this Resolution: NOW, THEREFORE:

BE IT RESOLVED by the City Commission of The City of Springfield, Ohio, at least four of its members concurring:

Section 1. That the City Commission of The City of Springfield, Ohio hereby endorses and supports the Clark County Waste Management District 2013 Solid Waste Management Plan.

Section 2. That the Clerk of this Commission is directed to forward a certified copy of this Resolution to the Clark County Waste Management District.

Section 3. That by reason of the emergency set forth and defined in the preamble hereto, this Ordinance shall take effect and be in force immediately.

RECEIVED

NOV 30 2012

ADOPTED this 20th of November, A.D., 2012.

Warren R. Copeland
PRESIDENT OF THE CITY COMMISSION

Conie Chappell
CLERK OF THE CITY COMMISSION

CERTIFICATION

This certifies that the foregoing is a true copy of Resolution
No. 5749 passed by the Commission of the City of Springfield, Ohio, November 20, 2012.

Conie Chappell
Clerk of the City Commission

RESOLUTION CERTIFYING RATIFICATION OF THE SOLID WASTE MANAGEMENT PLAN

A resolution declaring that the amended Solid Waste Management Plan for the Clark County Waste Management District (District) has been ratified in accordance with Section 3734.55 of the Ohio Revised Code.

WHEREAS the District held a written public comment period from May 1 through May 30, 2012, and a public hearing June 5, 2012; and

WHEREAS the District received no written or oral comments, the Solid Waste Management District Policy Committee adopted the Solid Waste Management Plan Update on August 7, 2012 and issued the Plan Update for ratification for the period September 4 to December 2, 2012; and

WHEREAS the Solid Waste Management District Policy Committee has received copies of resolutions and ordinances approving the amended Plan from the board of county commissioners, the legislative body of the largest municipality within the District, and from elected officials in legislative jurisdictions representing at least 75% of the population within the District;

NOW THEREFORE be it resolved that the Solid Waste Management District Policy Committee of the Clark County Waste Management District declares the amended Plan for Clark County Waste Management District to be ratified in accordance with Section 3734.55 of the Ohio Revised Code, and shall cause the amended Plan to be submitted to the Director of Ohio Environmental Protection Agency for review.

This resolution shall be in effect immediately upon its adoption.

Voting for the Resolution:

Representing the County Commissioners

Karen B. Dunsen

Representing CEO of Largest City

Chad Katterson

Representing County Health Department

Date Signed

12-13-12

Date Signed

12-13-12

Date Signed

Representing Townships

Jim W. McDaniel

Representing Commercial/Industrial Generators

David H. Kline

Representing the Public

Thomas E. Carl Jr.

Representing the Public

Date Signed

12-13-12

Date Signed

12-13-12

Date Signed

12-13-12

Date Signed

Voting against the Resolution:

Representing the County Commissioners

Date Signed

Representing CEO of Largest City

Date Signed

Representing County Health Department

Date Signed

Representing Townships

Date Signed

Representing Commercial/Industrial Generators

Date Signed

Representing the Public

Date Signed

Representing the Public

Date Signed

Identification of Consultants for Plan Preparation

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

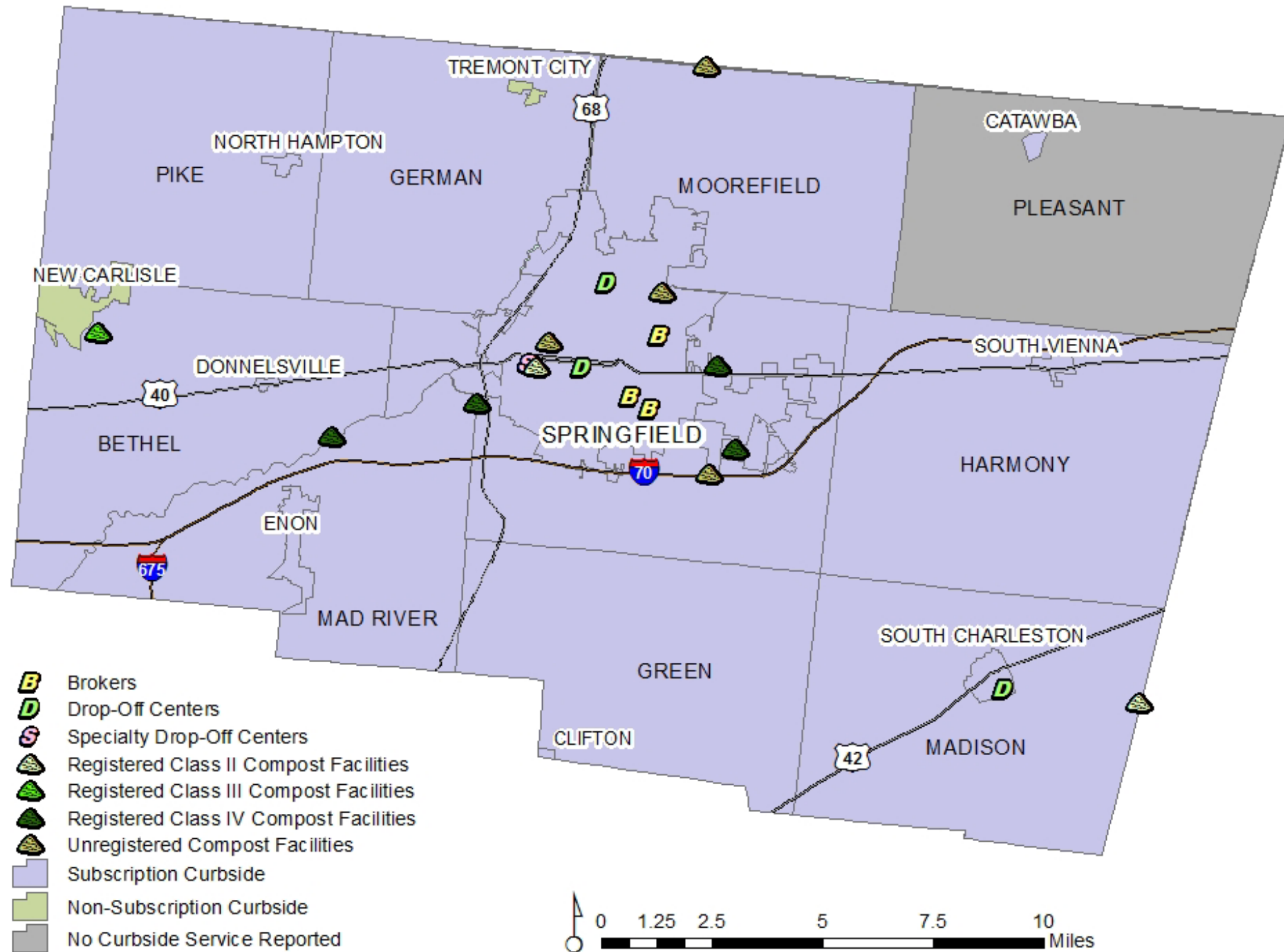
Project Manager: James A. Skora
Senior Project Manager
(330) 899-1105
(330) 896-2062 Fax

The logo consists of the letters 'GT' in a large, bold, green serif font. A horizontal black line is positioned directly below the letters.

Environmental, Inc.

Appendix E – District Map

Clark County Solid Waste Management District



Appendix F
Clark County Solid Waste Management District
Amount of Industrial Waste Recycled by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	1,630.80	0.00	7.00	0.00	20.80	2,654.00	172.00	0.00	0.00	56.50	0.00	0.00	78.00	84.70	41.38	4.80	175.15	0.00	0.00	4,925.13
News	0.00	0.00	0.00	0.00	0.00	0.00	145.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	157.00
Other Paper	0.13	0.00	0.00	0.00	0.00	2.00	357.70	0.00	0.00	3.00	0.00	0.00	2.00	2.70	66.05	3.90	0.00	0.00	0.00	437.48
Textiles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00
Wood	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	4.00	1,456.00	0.00	0.00	0.00	0.00	1,462.00
Ferous	23.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	650.00	30.00	0.00	0.00	1,386.25	12,357.00	36.00	0.00	5,954.60	0.00	0.00	20,456.85
Non-Ferous	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.20	133.00	0.00	486.40	0.00	0.00	737.60
Other Metal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.60	0.00	9.00	0.00	1.00	558.30	43.12	425.75	0.00	4.00	3.00	0.00	1,092.77
Other Plastic	133.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	891.16	0.00	0.00	0.00	3.00	1.00	0.00	17.00	0.00	0.00	1,045.16
Stone/Clay/Sand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,000.00	0.00	0.00	0.00	2,284.00	0.00	0.00	0.00	0.00	0.00	0.00	12,284.00
Food	13,476.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,476.00
Subtotal	15,262.93	0.00	34.00	0.00	20.80	2,656.00	674.70	48.60	10,650.00	991.66	0.00	1.00	4,308.55	12,605.72	2,159.18	8.70	6,651.15	3.00	0.00	56,075.99
Misc.	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	416.00	0.00	0.00	424.36
Total	15,262.93	8.36	34.00	0.00	20.80	2,656.00	674.70	48.60	10,650.00	991.66	0.00	1.00	4,308.55	12,605.72	2,159.18	8.70	7,067.15	3.00	0.00	56,500.35

Source: Industrial Waste Surveys

Appendix F
Clark County Solid Waste Management District
Amount of Industrial Waste Generated by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	1,631	0	7	0	21	2,654	172	0	0	57	0	0	78	85	41	5	175	0	0	4,925
News	0	0	0	0	0	0	145	0	0	0	0	0	0	0	0	0	12	0	0	157
Other Paper	0	0	0	0	0	2	358	0	0	3	0	0	2	3	66	4	0	0	0	437
Textiles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Wood	0	0	0	0	0	0	0	0	0	2	0	0	0	4	1,456	0	0	0	0	1,462
Ferrous	23	0	20	0	0	0	0	0	650	30	0	0	1,386	12,357	36	0	5,955	0	0	20,457
Non-Ferrous	0	0	7	0	0	0	0	0	0	0	0	0	0	111	133	0	486	0	0	738
Other Metal	0	0	0	0	0	0	0	49	0	9	0	1	558	43	426	0	4	3	0	1,093
Other Plastic	133	0	0	0	0	0	0	0	0	891	0	0	0	3	1	0	17	0	0	1,045
Stone/Clay/Sand	0	0	0	0	0	0	0	0	10,000	0	0	0	2,284	0	0	0	0	0	0	12,284
Food	13,476	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,476
Misc.	4,004	31	577	0	16	203	96	56	8	356	0	20	460	481	482	8	1,764	6	0	8,568
Total	19,267	31	611	0	36	2,859	770	104	10,658	1,348	0	21	4,769	13,087	2,641	17	8,415	9	0	64,644

Source: Industrial Waste Surveys

Clark County Waste Management District

Waste Hauler Survey

Company Name: _____

Contact Name: _____

Company Address: _____

Telephone Number: _____

Fax Number: _____

E-Mail Address: _____

I GENERAL INFORMATION:

1. Are you a licensed solid waste hauler in Clark County? Yes No
2. How many trucks are currently licensed to operate here? _____
3. What type of trucks do you operate here? _____
4. Do you operate with one or two people per vehicle? _____
5. Have you considered converting a semi- or fully-automated collection system? Yes No
6. Do you provide solid waste collection for:
Residents: Yes No Commercial/ Industrial businesses: Yes No
(Please answer applicable sections)
7. Where do you deliver your materials? Solid Waste? _____
Recyclables? _____ YardWaste? _____
C&DD? _____
8. Do you have contracts or other commitments to deliver your materials to any of the above facilities? No Yes (if yes, circle) Solid Waste, Recyclables, Yard Waste, C&DD.

II RESIDENTIAL SERVICES:

Solid Waste collection:

1. What areas in Clark County does the company provide waste collection service? (If yes, circle): New Carlisle, City of Springfield, Enon, South Charleston, Bethel Twp., German Twp., Green Twp., Harmony Twp., Madison Twp., Mad River Twp., Moorefield Twp., Pike Twp., Pleasant Twp., Springfield Twp.
2. Do you provide residential collection in (If yes, circle) Madison, Champaign, Miami, Montgomery or Greene Counties?
3. What hours do you collect residential solid wastes? _____
4. What is the monthly fee for flat rate solid waste collection service to residential customers? \$ _____
5. How many months in your billing cycle? _____
6. Do you require customers to prepay? Yes No
 - a. Is this consistent with your business elsewhere? Yes No
 - b. If yes, where? _____
7. If customers are not required to prepay, do you experience problems recovering payment? Yes No
8. Will you bill renters or only landlords? _____
 - a. Is this consistent with your business elsewhere? Yes No
9. Does the company provide containers to residents for solid waste?
Yes No
 - a. Is there a container fee? Yes No
 - b. If yes, what is the cost? \$ _____
10. Do you have a setout limit on cans or bags with your flat rate service?
Yes No
 - a. If yes, what is the limit? _____
11. Do you collect bulk items? Yes No
 - a. If yes, what is your policy of limits

 - b. And rates? _____

III CURBSIDE RECYCLING COLLECTION

12. Does the company offer curbside recycling services? _____
a. If not, why? _____ (If no , skip to
Section IV)
13. If yes, what areas in Clark County does the company provide curbside recycling service? New Carlisle, City of Springfield, Enon, South Charleston, Bethel Twp., German Twp., Green Twp., Harmony Twp., Madison Twp., Mad River Twp., Moorefield Twp., Pike Twp., Pleasant Twp., Springfield Twp.
14. If yes, what materials are accepted? Cardboard, newspapers, magazines, mixed papers, plastics #1, #2, #6, glass, metal
15. Do you collect recyclables with a separate truck? Yes No
a. What type of truck? _____
b. If not, please explain any other method you use to collect

16. Are you equipped to collect recyclables using a single-stream/commingled system? Yes No
17. Would your processor accept single stream/commingled recyclables?
18. How do you ask your customers to prepare the recyclables? _____

19. How do you educate your customers on recycling? _____
20. Do you promote recycling service to your customers? Yes No
a. If yes, how do you promote it? _____
21. What is the monthly charge/incentive to the customer for recycling?
\$ _____ charge or incentive
22. What type of container do you use for curbside recycling with flat rate service? Size _____ Color _____
23. Is there a charge for the recycling bin to the customer? Yes No

24. What percentage of your flat rate customers participate in curbside recycling? _____ estimated or calculated

If they respond with a low percentage, ask them why more of their customers do not participate in recycling _____

25. Are you charged a tipping fee for recyclables? No Yes \$ _____

26. What is the most significant challenge your company faces with curbside recycling collection? _____

IV YARD WASTE COLLECTION

27. Do you allow residents to regularly mix yard waste with their regular solid waste? Yes No

28. Do you collect yard waste separately from solid waste? Yes No (if no, skip to Section V)

29. What types (circle) grass, leaves, brush

30. If yes, what months of the year is separate collection provided? _____

31. Do you use a separate truck to collect yard waste? Yes No
a. If not, does it go to a landfill? Yes No

32. If collected separately, how do you ask residents to prepare yard wastes?

33. How do you educate your customers on separate collection of yard waste? _____

34. Do you promote separate collection of Yard Waste? Yes No

35. What is the charge for separate collection of yard wastes? _____

36. Where is the yard waste delivered? _____

37. Do they charge a tipping fee No Yes \$ _____

38. What is the most significant challenge your company faces with separate yard waste collection? _____

V VOLUME BASED COLLECTION (BAG SYSTEM)

39. Does the company offer a volume based (pay by the bag) service? Yes
No
40. Do you educate your flat rate customers about the bag system? Yes No
- a. If yes, how? _____
41. Do you educate your bag system customers on recycling and yard waste options? Yes No
- a. If yes, how? _____
42. What is the charge per bag? _____
43. Where are the bags sold? _____
44. What is the size of the bags used? _____
45. What is the color of the bags? _____
46. Is recycling offered with the bag system? Yes No
47. How is recycling structured with the bag system? Bag or Bin?
Size _____ and color _____?
48. What is the charge for recycling with the bag system? _____
49. Is separate collection of yard waste provided with the bag system? _____
50. Can customers commingle yard waste with solid waste using the bag system? _____
51. What is the charge for yard waste collected separately with the bag system? _____
52. What is the percentage of your customers using the bag system? _____%
Estimated or calculated?
53. What percentage of your bag system customers recycle? _____%
Estimated or calculated?
54. What is the most significant challenge your company faces with bag system? _____

VI COMMERCIAL/INDUSTRIAL SERVICES:

1. Do you provide Commercial/ Industrial Service? Yes No

2. What type of containers do you offer for commercial/industrial customers?

Dumpsters: 2 cy ___ 4 cy__ 6 cy__ 8 cy__ 10 cy_ Other _____

Open top containers: 20 cy _____ 30 cy_____ 40 cy_____ Other _____

Compactors: 10 cy_____ 20 cy_____ 30 cy _____ 40 cy_____ Other _____

3. Does the company offer recycling services? Yes No

a. If yes, how do you promote recycling services to your commercial customers? _____

b. What materials are recycled? _____

4. Does your company provide recycling customers with recycling equipment such as balers? Yes No

5. What percent of your commercial/industrial customers recycle? _____% estimated or calculated?

If they respond with a low percentage, ask them why commercial customers are not recycling? _____

6. Do you charge for commercial recycling? Yes No

a. If yes, what? \$ _____

7. Where in Clark County does the company offer Com/Ind service? New Carlisle, City of Springfield, Enon, South Charleston, Bethel Twp., German Twp., Green Twp., Harmony Twp., Madison Twp., Mad River Twp., Moorefield Twp., Pike Twp., Pleasant Twp., Springfield Twp.

8. Does the company haul hazardous wastes? _____

Thank you for taking the time to complete this survey for us. Would you like us to send you a copy of the final report? Yes No

Clark County Waste Management District
2010 Industrial Solid Waste Survey

Please complete and fax or mail by Friday, April 30, 2010

Fax to: 937-327-6648

Mail to:

Clark County Waste Management District
1602 West Main Street
Springfield, OH 45506

If you have any questions regarding the survey, or if you would like this survey sent electronically, please contact:

Bill Eskew at 800-438-9770
or
weskew@rdarecycling.com

General Information:

1. Company Name: _____
2. Company Address: _____
3. Contact Person: _____
4. Telephone Number: _____
5. Fax Number: _____
6. E-Mail Address: _____
7. Primary SIC Code: _____
8. Primary NAICS Code: _____
9. Number of Employees _____
10. Briefly describe your business _____

SOLID WASTE DISPOSAL INFORMATION:

If you know the total amount of tons disposed in 2009, please list the total _____

If the actual tons are not known, please indicate the size of the waste disposal container and the number of times it is emptied on a weekly basis.

DUMPSTERS:

_____ Cubic Yards Emptied ____ Per Week

_____ Cubic Yards Emptied ____ Per Week

_____ Cubic Yards Emptied ____ Per Week

COMPACTORS:

_____ Cubic Yards Emptied ____ Per Week

_____ Cubic Yards Emptied ____ Per Week

RECYCLING INFORMATION:

If you know the amount of tons recycled in 2009, please list the total _____

If the tons of recycled material is known, please list the amount by material type.

	<u>Material Type</u>	<u>Tons</u>
1.	Cardboard	_____
2.	Office Papers/Newspapers	_____
3.	Plastics	_____
4.	Glass	_____
5.	Ferrous Metals	_____
6.	Non-Ferrous Metals	_____
7.	Tires	_____
8.	Batteries	_____
9.	Wood/Pallets	_____
10.	Food/Yard Wastes	_____
11.	Electronic Waste	_____
12.	Fluorescent Lamps, Ballasts	_____
13.	Commingled Material (glass,cans,bottles together)	_____
14.	Other Material (specify)	_____

If the tons recycled are not known, please indicate the size of the recycling container and the number of times it is emptied on a weekly basis.

DUMPSTERS:

_____ Cubic Yards Emptied ____ Per Week

_____ Cubic Yards Emptied ____ Per Week

COMPACTORS:

_____ Cubic Yards Emptied ____ Per Week

Once again, **THANK YOU** for your efforts with this survey.

Also, if you need information concerning solid waste management or recycling, please contact the Clark County Waste Management District at (937) 521-2021 or check us out on the web at www.32TRASH.org

Please fax the completed survey by April 30th to: 937-327-6648.



2010 Recycling Facility Survey
For Reporting 2009 data

Your assistance in completing this survey ASAP is greatly appreciated!

Company Name: _____

Mailing Address: _____

Contact Person: _____ Phone# _____ Fax _____

All data reported should be for volumes generated in Clark County, Ohio in 2008 ONLY

Please circle all of the services you provide:

- Material Recovery Facility
- Scrap dealer
- Pallet recycling
- Paper processing
- Other _____

PLEASE COMPLETE THE BACK OF THIS FORM

Page 2 - Facility Survey

Please report the following tonnages (pounds or cubic yards) by material type and by the source **if you know it**. At least show totals, even if you do not know the source.

Material type	Tons residential	Tons Commercial	Tons Industrial	Total tons
Newspaper				
Cardboard				
Office Paper				
Mixed Paper				
Aluminum cans				
Steel and bi-metal cans				
Aluminum				
Non-ferrous metal				
Ferrous metal				
Glass				
Plastic #1				
Plastic #2				
Mixed plastic				
Wood pallets				
Other wood/sawdust				
Textiles				
Tires				
White goods				
Commingled residential				
Yard waste				
other-list				
other-list				
Total all materials				

Please return to the Clark County Waste Mgt. District ASAP.

Email or Fax to (937) 327-6648. Or, mail to 1602 W. Main Street, Springfield, Ohio 45504

Thank you for your assistance! Call (937) 521-2021 if you have questions.