Lucas County
Solid Waste Management

2010 Draft Plan Update

Due to OEPA September 16, 2011

Lucas County Commissioners
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Table of Contents

Section 1: Introduction 6

A. Plan Approval Date, Counties In District and Planning Period 6
B. Reasons for Plan Submittal 6
C. Process to Determine Material Change in Circumstances 6
D. District Formation and Certification Statement 8
E. Policy Committee Members 9
F. Board of County Commissioners 9
G. District Contact Information 9
H. Technical Advisory Committee and Other Subcommittees 10

Section 2: Executive Summary 11

A. Previously Approved Plan 11
B. Current Plan Overview 11

Section 3 – Inventories 11
Section 4 – Reference Year 13
Section 5 – Planning Period Projections and Strategies 13
Section 6 – Methods of Management 14
Section 7 – Measurement of Program Toward Goals 15
Section 8 – Cost and Financing of Plan Implementation 16
Section 9 – District Rules 20

Section 3: Inventories 24

A. The Reference Year 24
B. Existing Solid Waste Landfills 24
C. Existing Incinerators and Resource Recovery Facilities 27
D. Existing Transfer Facilities 29
E. Existing Recycling and Household Hazardous Waste Collection Activities 29
F. Existing Composting/Yard Waste Management Facilities 54
G. Existing Open Dumps and Waste Tire Dumps 59
H. Ash, Foundry Sand and Slag Disposal Sites 79
I. Map of Facilities and Sites 79
J. Existing Collection Systems – Haulers 79

Section 4. Reference Year 84

A. Population and Residential/Commercial Generation 84
B. Industrial Waste Generation 85
C. Exempt Waste 88
D. Total Waste Generation 88

E. Reference Year Waste Reduction 89
Residential/Commercial Sector 89
Existing Residential/Commercial Waste Reduction Activities and Programs 92
Industrial Sector 116
Existing Industrial Waste Reduction Activities and Programs 118
F. Total Waste Generation: Historical Trends 119
G. Reconciliation of Waste Generation 120
H. Waste Composition 121
Residential/Commercial Sector 121
Industrial Waste Sector 123
Section 5. Projections and Strategies 126
A. Planning Period 126
B. Population Projections 126
C. Waste Generation Projections 128
Residential/Commercial Sector 128
Industrial Sector 130
Total Waste Generation 133
D. Projections for Waste Stream Composition 135
E. Waste Reduction Strategies Through Planning Period 135
Residential/Commercial Waste Reduction Strategies 136
Industrial Waste Reduction Strategies 153
Section 6. Methods of Management 157
A. District Methods for Management of Solid Waste 157
Calculation of Capacity Needs 157
B. Demonstration of Access to Capacity 162
Regional Disposal Capacity Analysis 162
Regional Recycling Capacity Analysis 163
Regional Composting Capacity Analysis 163
C. Schedule for Facilities and Programs 171
D. Identification of Facilities 193
E. Authorization Statement to Designate 195
F. Waiver Process for Undesignated Facilities 195
G. Siting Strategy for Facilities 195
Preliminary Site Analysis 196
Evaluation of Proposed Sites and Designation Requests 196
Siting Criteria 199
Evaluation and Ranking Scheme 199

Resolving Site Impasses Through Mediation 199
H. Contingencies for Capacity and Program Implementation 200
Section 7. Measurement of Progress Toward Goals 201
A. District Will Comply with Goal(s) Identified 201
Goal #1 – Access and Participation 201
B. Demonstration of Compliance with Goal #1 202
Residential Sector 202
Commercial/Institutional Sector 208
Targets for Reduction and Recycling 209
Section 8. Cost & Financing of Plan Implementation 216
C. Funding Mechanisms and Amount of Money Generated 217
District Disposal Fees (ORC Section 3734.57 B) 217
Generation Fees (ORC Section 3734.573) 219
Other Funding Mechanisms 220
Summary of District Revenues 221
D. Costs of Plan Implementation 227
E. Funding Allocated from ORC Section 3734 241
F. Contingent Funding or Financing 244
G. Summary of Costs and Revenues 245
Section 9. District Rules 250
A. Existing Rules 250
B. Proposed Rules 250

Section 1: Introduction

A. Plan Approval Date, Counties In District and Planning Period

Under current approved plan:

Date of Ohio Environmental Protection Agency Approval:	December 2005
Counties within District:	One – Lucas County
Years in Planning Period:	Twenty (20) Years

Plan to be implemented with approval of this document

Counties within District:	One – Lucas County
Years in Planning Period	Twenty (20) Years
Year 1 of the Planning Period:	2011

B. Reasons for Plan Submittal

This plan is submitted in accordance with ORC Section 3734.56, which requires districts to submit a five (5) year updated on or before the anniversary date of their last approved plan with a planning period of twenty years.

C. Process to Determine Material Change in Circumstances

The District will use the plan as a tool to achieve the goals and standards established by the Ohio Environmental Protection Agency, thereby leaving the implementation flexible enough as to allow investigations, strategies, and program the latitude to be responsive to the changing conditions within the District and the solid waste management industry.

Criteria for Determining Material Change

In accordance with ORC Section 3734.56(D), the Plan must be revised if the District Board of County Commissioners has determined that "circumstances have materially changed from those addressed in the approved initial or amended plan of the District." The District will use the following process and criteria to determine when a material change in circumstance has occurred in the District, and as a result, requires a plan amendment.

- **Facility Designations**. The designated facilities identified in this Plan will remain in effect during the planning period unless added to or deleted through the procedures established by ORC Sections 343.013, 343.014, and/or 343.015 and as outlined in the District's "Designation Procedure and Evaluation Document" (**Appendix I**). An addition to or deletion from the list of designated facilities will not be considered a material change in circumstances unless capacity availability, revenues for plan implementation or program availability is adversely affected.

- **Waste Generation**. The District will monitor the volume of Lucas County generated solid waste accepted at designated landfills and other solid waste facilities. In Section 5, the District has identified the amounts of waste generated by the residential, commercial and industrial sectors. The estimated annual amount of waste generated in the District does not have an impact on the implementation of the plan. The District relies on annual surveys and records from processing facilities to calculate waste reduction and actual disposal reports provided monthly for District fees and annual Ohio Environmental Protection Agency Ohio Facility Data Reports to calculate tonnages disposed. Therefore, the District will not consider changes in the estimated annual amount of waste generated in the District to be a material change. The District will provide updates through the Ohio Environmental Protection Agency's Annual District Report process and when the five-year update is required make the appropriate adjustments.

- **Capacity Availability**. Current private contracts with solid waste landfills, transfer, composting and recycling facilities ensure proper disposal, processing and management of solid waste generated within the District. Landfill capacity assurance has been guaranteed by contract through the year 2030. The District will consider insuring capacity by renegotiating contracts when there is less than three years of capacity remaining under existing contracts. The District will use a Request for Proposal process to secure the "lowest and best" bid for solid waste management facilities. It is not anticipated that solid waste disposal capacity will change enough to result in a material change of circumstance.

- **Strategies for Waste Reduction and Recycling**. The District has proposed programs that maintain or slightly increase the amounts of recyclables retrieved from the waste stream. The District, will, through the Board of County Commissioners and the Policy Committee, review its operations and plan implementation annually. Through this review, deviations from this plan shall be reviewed to determine materiality contained in this document as part of the District's Annual District Report process. If, during the annual tabulation of data from the District, decreases in recycling and source reduction are identified in excess of 30% of the current (2008) rate, the District will follow appropriate reporting procedures to inform Ohio Environmental Protection Agency-Department of Solid and Infectious Waste Management office of a material change in circumstance.

- **Availability of Revenues for Plan Implementation**. In coordination with "Waste Generation", above, the District will monitor the budgetary solvency with respect to financing the facilities and programs identified in this plan. The District reserves the right to adjust the amount of funds allocated to individual programs, without resulting in a material change in circumstance, in order to maintain budget solvency surpluses and deficits. The District, will, through the Board of County Commissioners and the Policy Committee, review its operations and plan implementation annually. Through this review, deviations from this plan shall be reviewed to determine materiality contained in this document as part of the District's Annual District Report process. If the revenues for the District should result in negative cash flow after line item budget adjustments, the District will notify the Ohio Environmental Protection Agency-Department of Solid and Infectious Waste Management office that the District will perform a feasibility study as outlined in Section 6 subsection H. If adjustments cannot be made that correct the negative cash flow the feasibility study shall provide corrective actions to be taken and the timeline for implementation. Only if, the District's fee schedule is changed or programs have to be adjusted and the District is no longer able to maintain compliance with the State of Ohio's Solid Waste Management Plan shall there be a material change in circumstance.

Monitoring Procedure

The District shall review quarterly the progress of its Plan implementation. Data shall be kept so that end of the year statistics can be compiled for the District's Annual District Report. The District's review of its operations and plan implementation will include an assessment of any changes in the procedures and timetable for plan implementation, including the criteria listed above. Should any identified changes result in a determination that the minimum Access and Participation Standards are no longer being met then the District will find that a material change in circumstances has occurred and take action as described above. The District has presented a list of programs proposed for implementation during the planning period. The District Director and Manager shall review each program for compliance with applicable State goals and objectives and resultant economic benefits. The District has proposed certain procedures and timetables for facilities and programs identified in the Plan. The availability of these programs is an integral part of the Plan's compliance with the Access and Participation Standards that were used by Ohio Environmental Protection Agency in approving the Plan.

Timetable for Analyzing the Determination and Notification Process

- At the end of each calendar year the District shall begin the preparation of its Annual District Report for submission to Ohio Environmental Protection Agency. During preparation of the Annual District Report, the District will use the criteria listed in this Section to analyze whether a material change of circumstance has occurred. Prior to submitting the District's Annual District Report to Ohio Environmental Protection Agency, the District shall submit, at least two weeks prior to the required submission date to Ohio Environmental Protection Agency, the Annual District Report to the Board of County Commissioners for approval.

- If, during the annual evaluation of programs and other relevant data reveals that a material change in circumstance has occurred, the District Director shall report these findings to the Policy Committee. Once a quorum of the Policy Committee is assembled, the Policy Committee shall pass a resolution declaring that a material change of circumstance has occurred. The resolution shall be submitted to the Board of County Commissioners within one week of its passage. The Board of County Commissioners shall direct the District Director to prepare and submit a report, which shall include recommendations and timetables for revising the Plan due to the material change in circumstance.

- The District Director shall then submit the report and recommendations to the Board of County Commissioners for approval prior to sending it to and notifying the Ohio Environmental Protection Agency. The District will proceed with steps as required to complete a Plan Update that addresses all portions of the plan that need to be modified as a result of the material change including all the required projections, demonstrations, and strategies to manage the District's waste for the succeeding planning period beyond the approval date of the Plan Update.

D. District Formation and Certification Statement

An existing District that has not undergone reconfiguration submits this Plan Update. **Appendix A** contains a copy of Resolution Number 89-297 establishing the Lucas County Solid Waste Management District, dated March 6, 1989.

Appendix B contains the public notices for the public hearing and public comments held on this District Plan Update.

Appendix C contains a certification statement from the Policy Committee members, a resolution from the Policy Committee adopting this Plan Update prior to ratification as well as a resolution from the Policy Committee certifying that this Plan Update has been properly ratified (to be included once they occur).

E. Policy Committee Members

In accordance with ORC Section 3734.54(B), the following voting members have been appointed to the Policy Committee.

Voting Policy Committee Members

Pete Gerken, Commissioner and Chair
Lucas County Board of Commissioners
Lucas County Commissioners Representative

Matt Franchetti, Vice-Chair
University of Toledo, College of Engineering
Public Representative

Alan Ruffell, Director of Environmental Health
Toledo/Lucas County Health Department
Health Department Representative

Dave Welch, Director of Public Service
City of Toledo
Largest Municipality Representative

Amy Joyce, Environmental Specialist
Toledo Assembly Plant, Daimler Chrysler Corporation
Waste Generator Representative

Don Eisel, Township Trustee
Richfield Township
Township Representative

Ann Cooke, Regulatory Compliance Manager
The Andersons, Inc.
Citizen Representative

F. Board of County Commissioners

The Board of Lucas County Commissioners for the Lucas County Solid Waste Management District includes:

- Pete Gerken, County Commissioner, President and Policy Committee Chair
- Tina Skeldon Wozniak, County Commissioner
- Ben Konop, County Commissioner

G. District Contact Information

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Lucas County Solid Waste Management District
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Website: http://oh-lucascounty.civicplus.com/index.aspx?nid=749

H. Technical Advisory Committee and Other Subcommittees

A technical advisory committee was not formed for this Plan Update. District staff, consultant Resource Recycling Systems, Keep Toledo/Lucas County Beautiful, University of Toledo Business Waste Reduction Assistance Program, voting and ex-officio Policy Committee members all contributed to this Plan Update.

Section 2: Executive Summary

Section 2 provides an overview of the Plan Update and provides a brief summary of each of the plan sections.

The Lucas County Solid Waste Management District ("District") was formed on March 6, 1989 by the Board of County Commissioners of Lucas County ("Board of County Commissioners") under Amended House Bill 592. In forming the single-county District, the Board of County Commissioners established a five-member Policy Committee subsequently expanded to seven members consisting of the representatives as stipulated in Section 3734.54(B) of the Ohio Revised Code.

The District's present Plan was approved in 2005 (2001 reference year for data) for a planning period of 20 years. This is the District's mandatory five (5) year plan update with a new planning period running from 2010 through 2030.

A. Previously Approved Plan

Here are the major highlights from the present Plan Update approved in 2005.

Reference Year Population				453,348
	Residential/ Commercial Sector	Industrial Sector	Exempt	Total
Waste Reduction/Recycling	70,215	122,517		192,732
Waste Disposal	439,930	270,044	95,120	805,094
Waste Generation	510,145	392,561		997,826
Waste Generation Rate lbs/person/day	6.17	4.74	1.15	12.06
Waste Reduction Rate	14%	31%		19%

The District elected to achieve Goal #1 (Access/Participation Goal) during the last Plan Update. The Ohio Environmental Protection Agency provides guidelines for demonstrating compliance with the population portion of the Access Standard. During the reference year (2001), 101% of the District's population had access to recycling services using the Ohio Environmental Protection Agency guidelines. Population access was estimated to rise to 110% by the end of 2005 using the same guidelines.

B. Current Plan Overview

A brief overview of each plan section is provided below.

Section 3 – Inventories

The District selected 2008 as its reference year for this Plan Update.

Data presented in this plan was collected in 2008, 2009 and 2010. Most of the baseline data on disposal, recycling and composting activities and programs was collected as part of the District's 2008 Annual District Report to the Ohio Environmental Protection Agency. In 2009, during the beginning of the solid waste planning process, an additional survey was conducted to capture data from all municipalities, recycling facilities, recycling brokers and compost facilities that did not reply to the original 2008 Annual District Report survey. Additionally in 2009, the District surveyed the top 100 largest commercial and industrial employers in the District provided by the Toledo Regional Chamber of Commerce to gather their recycling and compost activities. Lastly the District relied on several Ohio Environmental Protection Agency generated reports to capture data on material recovery facility (MRF) recycling, compost, scrap tire and landfill activities.

Landfills and Transfer Facilities

In 2008, 685,059 tons of District waste was disposed at eight (8) landfills located in Ohio and Michigan. Of the total amount of waste disposed from the District, 458,672 tons was subject to District fees and includes the residential/commercial, industrial and asbestos wastes. The District disposed of 38,086 tons of exempt waste. Additionally, the District had 188,301 tons of material reported as automotive shredder residue waste and 19,281 tons of construction/demolition debris. Four landfills including the City of Toledo Hoffman Road Landfill (Lucas County, OH), Waste Management Evergreen R &D Landfill (Wood County, Ohio), Republic Vienna Junction Landfill (Monroe County, MI) and Carleton Farms (Lenawee County, MI) disposed of the majority of the District's wastes totaling 685,034 tons of the 685,059 tons disposed.

In 2008, the District acquired a Material Recovery Facility located at 1011 Matzinger Road, which was subsequently upgraded and refurbished. On January 18th 2010, the District entered into a contract with Fondessy Enterprises, Inc. to operate said facility, and to provide material recycling processing and marketing services associated with the collection of recycled materials from the District operated drop-off recycling program.

Recycling and Composting Activities

During the reference year, nine of the twenty-one municipal communities had non-subscription curbside waste and recycling service. Four of the non-subscription curbside programs provide their own collection and include the City of Toledo, Village of Holland, Village of Ottawa Hills and Village of Whitehouse. Eight of the nine non-subscription programs reported recycling data totaling 8,274 tons. The remaining twelve municipal communities had subscription curbside service. In all of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were available for collection. In 2009, the City of Toledo implemented a new automated waste and recycling collection system with the hopes to increase recycling rates. The City of Toledo expects to see a total of 22,000 tons of recycling collected in 2010.

The District has an extensive system of public, private and school drop-off recycling sites. During the reference year, the District operated, maintained and serviced 177 drop-off locations including 20 urban public, 10 rural public, 63 private and 84 school drop-off collection sites. The public drop-off sites are open to all County residents 7 days a week and collect three streams of materials including commingled papers (newspapers, office paper, junk mail, magazines, phone books), cardboard (corrugated, dry food boxes) and commingled containers (aluminum, bi-metal cans, glass – clear, brown and green, #1 and #2 plastic bottles). During the reference year, the District's drop-off program collected 10,840 tons of recyclables. The District also provides all County residents with a permanent year-round drop-off site for disposing and recycling of specialty wastes including household hazardous wastes, scrap tires, electronics and batteries.

The District had 10 class III/IV yard waste facilities including four municipally operated yard waste collection programs (City of Toledo, City of Sylvania, City of Maumee and City of Oregon) in operation. Sylvania Township, Village of Whitehouse, Village of Waterville and Village of Holland all had contracted curbside yard waste collection. In addition to these facilities and programs, the District provides residents with a permanent year-round drop-off collection program through the contracted service vendor Clean Wood Recycling at two locations within the District. During the reference year, this District operated yard waste sites serviced 80,242 vehicles

collecting 32,784 tons of yard waste materials. The remainder of the yard waste facilities within the District collected 26,497 tons of yard waste materials.

Open Dump and "Other" Disposal Sites
The District had 30 open dump sites, 8 closed landfill locations and 35 "other" dump and contaminated sites during the reference year.

Section 4 – Reference Year

Reference year waste reduction and recycling data was determined through the District's 2008 Annual District Report to the Ohio Environmental Protection Agency. Additionally, the District conducted a survey to capture data from all municipalities, recycling facilities, recycling brokers and compost facilities that did not reply to the original 2008 Annual District Report survey as well as the District's top 100 largest commercial and industrial employers.

Reference year disposal waste data was based on Ohio Environmental Protection Agency 2008 Ohio Facility Data Report as well as out of state landfill data from the Michigan Department of Environmental Quality.

Reference Year Population				440,256
(all in tons)	Residential/ Commercial Sector	Industrial Sector	Exempt	Total
Waste Reduction/Recycling	146,440	235,337		381,777
Waste Disposal	564,159	82,934	38,086	685,179
Waste Generation	710,599	318,271	38,086	1,066,956
Waste Generation Rate lbs/person/day	8.84	3.96	.47	13.28
Waste Reduction Rate	20.61%	73.94%		35.78%

Section 5 – Planning Period Projections and Strategies

The planning period for this Plan Update is January 1, 2010 through December 31, 2030.

During the reference year, the District's population is 440,256. Over the course of the 20 year planning period, the District's population is expected to decrease to 417,870 according to the Ohio Department of Development; Office of Policy, Research and Strategic Planning.

Overall during 2008, 2009 and even into 2010, the District has witnessed lower waste disposal numbers which can be attributed to many factors. The impact of the economic downturn our country has faced over the past years has taken its toll even on the amount of waste that has been disposed. In addition to the decrease of overall waste disposal, the District has seen a slight increase in recycling and waste reduction activities. Some can be attributed to economic need at both the household and commercial establishment where the basic economic driver of recycling revenue has increased recovery. Additionally, part of this can also be attributed to an emerging focus across the country that has turned our attention to being green, zero waste, sustainable and carbon neutral.

The residential/commercial generation rate for the reference year was determined to be 8.84 pounds per capita per day. But since 2008 and 2009 did not fairly represent average waste generation because of the economic downturn, 8.67 pounds per capita per day is used for the majority of the planning period resulting in an overall decrease in waste generation during the planning period.

Much like the discussion in residential/commercial sector, the District has witnessed lower waste disposal numbers. Ohio Department of Job and Family Services, Ohio Labor Market projects an overall 1.63% decrease in labor in the manufacturing sector as a whole from 2010 to 2016. The Ohio Labor Market does not have additional projections after 2016, but it is assumed that the industrial sector employment will continue to decrease over the remaining planning period as the County's population decreases.

Overall the District expects a decrease in waste generation over the planning period.

The District elects to demonstrate compliance with Goal #1 for the plan period. The following residential/commercial and industrial waste reduction strategies provide compliance with Goal #1 by the year 2010 as well as Goals #3 through #8.

- Non-Subscription Curbside Recycling Programs
- Subscription Curbside Recycling Programs
- District Drop-off Recycling Program
- Business Recycling and Waste Reduction Assistance Program
- Matzinger Road Facility
- Special Event Container Loan Program
- District Sustainability Program
- Recycling and Waste Reduction Education and Outreach
- School Paper Recycling Program
- School Education and Outreach Program
- Household Hazardous Waste, Electronics, Scrap Tires and Battery Program
- Yard Waste Collection Program
- Disaster Debris Management Plan
- Municipal Assistance Program
- Data Reporting Program
- Market Development Assistance
- Litter Collection Program
- Community Grant – Recycling Incentive Program

Section 6 – Methods of Management

The District will use three primary management methods to handle solid waste during the planning period including recycling, yard waste composting and landfilling.

Waste quantities accepted by each landfill during the twenty-year planning period were based on allocations during the reference year. During the reference year, four landfills accepted the majority of the District's wastes and include the City of Toledo's Hoffman Road Landfill (Lucas County, OH), Waste Management's Evergreen R & D Landfill (Wood County, OH), Republic's Vienna Junction Landfill (Monroe County, MI) and Carleton Farms Landfill (Lenawee County, MI). The following landfill waste allocation projections were determined for the planning period.

- Hoffman Road Landfill (42 years of remaining capacity), 22.4% of the District's wastes were projected to be disposed in the landfill.

- Waste Management Evergreen R & D Landfill (27 years of remaining capacity), 22.6% of the District's waste were projected to be disposed in the landfill through 2020. In 2021, the landfill is projected to handle 50.9% of the District's waste through the remainder of the planning period.

- Republic Vienna Junction Landfill (10 years of remaining capacity - cell expansion efforts in coming years), 28.2% of the total District waste were projected to be disposed in the landfill through 2020.

- Carleton Farms Landfill (23 years of remaining capacity), projected to continue to dispose of the District's automotive shredder residue at a 26.7% rate over the planning period.

A large network of public and private sector programs, activities, and facilities provides waste reduction and recycling capacity within Lucas County and this capacity is assumed to continue over the planning period.

Yard waste composting in Lucas County is provided through many avenues including private compost sites, municipal and contracted curbside yard waste collection programs and the District's yard waste drop-off collection sites. The District's yard waste collection program currently handles approximately 53% of the District's yard wastes. Program changes during the planning period will change the program from a free drop-off to a fee based drop-off for yard waste, so it is assumed that a 25% decrease in yard waste volumes will occur as part of the District's program starting in 2011. After 2011, volumes for both the District's program and all other compost/yard waste programs will be projected with a slight decrease on per capita rates in subsequent years. The existing programs and facilities are more than adequate to handle the volumes of composting and yard wastes estimated for the planning period.

Section 7 – Measurement of Program Toward Goals

Districts must demonstrate progress towards Goal #1 and Goal #2 established by The 2001 Ohio State Solid Waste Management Plan.

- **Goal #1** – Program access and participation standards for SWMDs: ensure the availability of recycling and waste minimization opportunities to the solid waste district's residents and businesses by the year 2010.

- **Goal #2** – By the year 2010 document the following;

    - (1) 25% waste reduction rate for the residential/commercial sector, and

    - (2) 66% waste reduction rate for the industrial sector

The District's intent for this plan update is to demonstrate compliance with Goal #1 by the year 2010.

The District must designate seven materials from this list to demonstrate compliance with Goal #1. Four of the designated seven materials must be identified and used for the residential/commercial sector and four materials for the industrial sector.

Residential/Commercial Sector	Industrial Sector
❖ Newspapers ❖ Steel Containers ❖ Aluminum Containers	❖ Corrugated Cardboard ❖ Office/Mixed Paper ❖ Wood Packaging/Pallets

❖ Plastic Containers	❖ Steel Containers

Goal #1 Compliance
The Ohio Environmental Protection Agency provides guidelines for demonstrating compliance with the population portion of the access standard. During the reference year (2008), 118% of the District's population had access to recycling service. It is expected that during the goal year (2010), 116% of the District's population will have access to recycling service.

Goal #2 Compliance
The waste reduction rate for the residential/commercial sector during the reference year was 20.61%. The District's waste reduction rate will slightly increase to 24.37% by the year 2030 mainly due to recycling awareness during the planning period.

The District has an industrial sector waste reduction rate of 73.94% for each year of the planning period from 2010 through 2030.

The District has a total waste reduction rate of 35.78% during the reference which will slightly increase over the planning period to 37.14% in 2030.

Section 8 – Cost and Financing of Plan Implementation

In accordance with those contracts, the District will continue to levy a generation fee at its current level of $2.20 per ton, for the remainder of the planning period. As well, the District will continue to levy a contract disposal fee, currently at $1.00 per ton, in accordance with ORC 343.022, increasing that contract fee to $3.00 per ton in 2012. After Plan Update adoption, the District may evaluate the amount of that fee, as part of its annual budgeting cycle, and may consider reducing it, depending on the District's success in securing other revenue sources, following all required procedures of the Ohio Revised Code for establishing and adjusting solid waste management district fees for openness, transparency, inclusiveness, and public input and approval.

In accordance to the Ohio Revised Code 343.08, the District will implement in 2014 a basic services rate and charge at an expected value of $5 on all improved parcels, estimated to raise $645,000 per year based on 129,000 parcels paying the fee (after factoring in a 20% reduction from the 161,249 improved parcels on record at the time - for parcels that do not pay). The basic services rate and charge is for core District programming that has application across all sectors within the District (residential, commercial, industrial) and includes county-wide recycling education and outreach, solid waste management planning, municipal technical assistance and administration, assurance of adequate commingled recycling processing capacity and any other service that ensures the District is in compliance with all state Solid Waste Management Plan requirements.

Given the volatility and uncertainty in volumes of District waste to be delivered to designated disposal facilities, the District is authorized to generate other revenue streams as provided for in this section. The District will monitor closely any future revisions to the State of Ohio's Solid Waste Management Plan and solid waste legislation to ensure that there will be no negative impacts to the funding ability of the District under these designated disposal facility agreements and the funding mechanisms that they enable, coupled with the authorization to generate other revenues as provided for in this plan.

The District will annually monitor program costs and make any adjustments to non-essential programs in order the maintain compliance with the goals and objectives outlined in Section 5. Non-essential programs for the purpose of this Plan Update are defined as programs that contribute the least to the participation and accessibility standard (Goal #1) or the least amount of tonnage under the numerical goal. The District reserves the right under this Plan Update to make line item adjustments or program cuts as a method of balancing its annual budget.

Summary of District Revenues and Expenditures

Year	Revenues	Total Expenditures	Cumulative Balance
2010	$ 1,772,638	$ 2,195,253	$ 24,114
2011	$ 4,665,887	$ 4,625,586	$ 64,415
2012	$ 11,225,232	$ 11,117,600	$ 172,047
2013	$ 11,530,510	$ 11,667,126	$ 35,431
2014	$ 13,226,423	$ 12,782,466	$ 479,388
2015	$ 13,497,344	$ 13,131,505	$ 845,227
2016	$ 13,778,178	$ 13,498,618	$ 1,124,787
2017	$ 14,073,157	$ 13,573,057	$ 1,624,887
2018	$ 14,377,112	$ 13,954,286	$ 2,047,712
2019	$ 14,690,310	$ 14,669,538	$ 2,068,485
2020	$ 15,013,028	$ 15,083,999	$ 1,997,514
2021	$ 15,339,654	$ 15,511,546	$ 1,825,623
2022	$ 15,676,363	$ 15,952,210	$ 1,549,776
2023	$ 16,023,457	$ 16,043,296	$ 1,529,937
2024	$ 16,381,246	$ 15,723,387	$ 2,187,796
2025	$ 16,750,051	$ 16,968,262	$ 1,969,585
2026	$ 17,127,862	$ 17,465,537	$ 1,631,910
2027	$ 17,517,353	$ 17,977,928	$ 1,171,334
2028	$ 17,918,872	$ 18,506,500	$ 583,707
2029	$ 18,332,745	$ 18,516,714	$ 399,738
2030	$ 18,759,377	$ 19,065,045	$ 94,070

Section 9 – District Rules

Ohio Revised Code (ORC) Section 343.01(G) authorizes the District to adopt rules on the following:

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

The District reserves the right, as expressly and impliedly authorized by law within the four categories identified in ORC Section 343.01(G) and the authority provided for in ORC Section 3735.53 (C), to adopt, amend, rescind and enforce rules to assist the Lucas County Solid Waste Management District with the implementation of its approved Solid Waste Management Plan.

Table ES – 3: Plan Data Summary

2010 Plan Data							
		2008	2010	2015	2020	2025	2030
Population		440,256	444,870	439,370	434,650	426,860	417,870
Generation	Res/Comm	710,599	688,968	695,243	687,775	675,448	661,223
	Ind.	318,271	307,980	283,684	276,613	271,669	265,959
	Exempt	38,086	38,485	38,009	37,601	36,927	36,149
	Total	1,066,956	1,035,433	1,016,937	1,001,988	984,045	963,331
Waste Reduction	Res/Comm Recycling	146,440	165,353	165,025	164,642	163,127	161,169
	MSW Composting	0	0	0	0	0	0
	Incineration	0	0	0	0	0	0
	Ash Disposal	0	0	0	0	0	0
	Industrial Source Reduction	0	0	0	0	0	0
	Industrial Recycling	235,337	227,727	209,763	204,534	200,879	196,656
	Waste Reduction Total	381,777	393,080	374,788	369,176	364,006	357,824
Disposal	LF In-District	153,513	143,943	143,897	141,805	138,943	135,686
	LF Out-of-District	155,341	145,657	145,611	143,494	315,447	308,053
	LF Out-of-State	376,205	352,753	352,641	347,513	165,649	161,767
	Total Landfill	685,059	642,353	642,149	632,812	620,039	605,506
Waste Reduction Rate		35.78%	37.96%	36.85%	36.84%	36.99%	37.14%

Sources:

Population – Table V-1

Waste Generation – Table V-4

Res/Comm Waste Reduction – Table V-5A

Industrial Waste Reduction – Table V-6A

Landfill Disposal – Table VI-4A

Waste Reduction Rate – Table VII-5

ES – 4: Existing Disposal Facilities

Facility Name	Location				
	County	State	District Total Tons	Total Tons	Remaining Capacity (Yrs)
In-District Facilities	Lucas	OH			
Hoffman Road Landfill	Lucas	OH	153,513	153,513	42
Out-of-District Facilities					
Wood County Landfill	Wood	OH	10	37,013	18
Waste Mgmt Evergreen R&D Landfill	Wood	OH	155,316	320,816	27
Hancock County Sanitary Landfill	Hancock	OH	3	136,946	42
BFI Carbon Limestone Sanitary Landfill	Mahoning	OH	8	555,616	25
AM Stericycle/BFI Medical Waste, Inc	GT	OH	1	N/A	N/A
Sunny Farms Landfill	OSS	OH	3	577,661	6
Out-of-State Facilities					
Republic Vienna Junction	Monroe	MI	193,185	504,474	10
Carleton Farms	Lenawee	MI	183,020	1,752,590	

Sources:
Landfill volumes – Table III-1
2008 OEPA Ohio Facility Data Report
2008 State of Michigan, Department of Environmental Quality (DEQ) Report of Solid Waste Landfilled in Michigan

Notes:
Michigan DEQ reports their landfill volumes in cubic yards. 3 cubic yards to 1 ton conversion was used.

Section 3: Inventories

The purpose of this section is to identify all existing waste reduction and waste services operating within the District. This section measures the amount of waste that is source reduced, recycled, composted, incinerated and disposed during the reference year. This reference year data is used to make waste generation and management projections throughout the planning period.

A. The Reference Year

The District has identified 2008 as the reference year for this solid waste management plan. In accordance with Plan Format version 3.0, 2008 is the calendar year proceeding the year that preparation of the revised plan began. All waste, recycling and composting inventory data is based on 2008 conditions. Where relevant, significant impacts to the generation or management of solid waste in the District occurring since 2008 have been incorporated. Please note that 2008 is referred to as the "reference year" throughout this Plan Update.

Data presented in this section was collected in 2008, 2009 and 2010. Most of the baseline data on disposal, recycling and composting activities and programs was collected as part of the District's 2008 Annual District Report to the Ohio Environmental Protection Agency. This report was based on a series of surveys and facility inventories conducted in 2008 to capture relevant data. Survey announcements were sent to all municipalities, recycling processors, recycling brokers, compost facilities, out-of-state landfills and a select number of commercial and industrial businesses. All Annual District Report surveys were conducted online through an online survey tool called ReTRAC. Follow-up phone calls and emails were used to confirm data and ensure that double counting of data did not occur.

In 2009, during the beginning of the solid waste planning process, an additional survey was conducted to capture data from all municipalities, recycling facilities, recycling brokers and compost facilities that did not reply to the original 2008 Annual District Report survey. Additionally in 2009, the District surveyed the top 100 largest commercial and industrial employers in the District provided by the Toledo Regional Chamber of Commerce to gather their recycling and compost activities. Both survey groups received a letter from the District outlining the purpose of the survey and an online survey link to www.surveymonkey.com. A specific survey was generated for each group and a copy of each survey can be found in Appendix F. Both the District and the University of Toledo Business Waste Reduction Assistance Program conducted follow-up phone calls to capture additional data for this inventory section during 2009 and 2010.

Lastly the District relied on several Ohio Environmental Protection Agency generated reports to capture data on material recovery facility (MRF) recycling, compost, scrap tire and landfill activities. All data sources are noted in each table and accompanying text. Any changes made to the data to reflect changing conditions since the baseline year are additionally noted in each table and accompanying text.

B. Existing Solid Waste Landfills

Landfills accepting District waste during the reference year are listed in **Table III-1**. Reference year disposal was based on Ohio Environmental Protection Agency data available in the 2008 Ohio Facility Data Report for all Ohio landfills and the 2008 Lucas County Annual District Report for all out-of-state landfills.

In 2008, 685,059 tons of District waste was disposed at eight landfills located in Ohio and Michigan. Only one of these landfills, the City of Toledo's Hoffman Road landfill, is located within Lucas County. Of the total amount of

waste disposed from the District, 458,672 tons was subject to District fees and includes the residential/commercial, industrial and asbestos wastes. The District disposed of 38,086 tons of exempt waste. Exempt waste is defined as material excluded from the definition of "solid waste" in the Ohio Revised Code 3734.01 and includes slag, uncontaminated earth, non-toxic fly ash, spent non-toxic foundry sand, and materials from mining and construction/demolition operations. In 2008, 188,301 tons of material was reported as automotive shredder residue waste. The District also disposed of a "reported" 19,281 tons of construction/demolition debris which the District received fees from the Lucas County Health Department but was also included into the exempt waste number. Some construction/demolition debris was not reported as construction/demolition debris but was reported as exempt waste.

Four landfills including the City of Toledo Hoffman Road Landfill (Lucas County, OH), Waste Management Evergreen R &D Landfill (Wood County, Ohio), Republic Vienna Junction Landfill (Monroe County, MI) and Carleton Farms (Lenawee County, MI) disposed of the majority of the District's wastes totaling 685,034 tons of the 685,059 tons disposed.

As the landfill information was pulled together for this section, two data errors were identified that had been reported differently on the 2008 Lucas County Annual District Report. The waste disposed from the Republic Vienna Junction Landfill was found to be incorrect and has since been corrected in **Table III-1**. Republic Vienna Junction Landfill reported 387,652 tons of residential/commercial solid waste on their 2008 Annual District Report survey. After looking at the District's financial records, landfill audit, and talking with Vienna Junction it was identified that the 387,652 tons of residential/commercial solid waste had been misrepresented. Further follow-up identified that the accurate tonnages included 141,572 tons of residential/commercial solid waste, 51,613 tons of industrial waste and 183,020 tons of automotive shredder residue which was sent to Carleton Farms Landfill.

The second data error occurred with the Waste Management Evergreen R &D Landfill. The waste reported to the Ohio Environmental Protection Agency for their 2008 facility report was found to be incorrect and has since been corrected in **Table III-1**. After reviewing the District's financial reports and follow-up phone calls with Evergreen, the 118,210 tons of "District fee applicable" waste (residential/commercial, industrial and asbestos wastes) also included 5,281 tons of automotive shredder residues which were determined to be exempt by the District. Waste Management paid the District fees on the remaining 112,929 tons of waste. Since the landfill had identified this automotive shredder residue as industrial waste, the 5,281 tons of auto shredder residue was subtracted from the originally reported 36,474 tons leaving a remaining 31,193 tons of industrial waste. This correction has been adjusted in **Table III-1**.

According to Ohio House Bill 100 and Section 3734.573 of the Ohio Revised Code, a District may adopt a resolution exempting automotive shredder residue from regularly collected District solid waste fees. In September 2007, the Lucas County Solid Waste Policy Committee established a policy and procedure to exempt this automotive shredder residue from the District's generation and contract fees through approved resolution #07-03. Automotive shredder residue generators must submit a letter of request, complete an application for exemption and be approved by the Board of County Commissioners before an exemption takes place. A copy of resolution #07-03, the automotive shredder residue policy and procedures and an application for exemption can all be found in Appendix G.

Table III-1: Landfills Used by the District

Facility Name	Type of Landfill	Location		Waste Received from the SWMD (TPY)						
		County	State	Residential /Commercial	Industrial	Exempt	Auto Shredder Residue	Asbestos	CD&D	Total
In-District Facilities		Lucas	OH							
Hoffman Road Landfill	GO, PA, PD	Lucas	OH	152,533					980	153,513
Out-of-District Facilities										
Wood County Landfill	GO, PA	Wood	OH	10						10
Waste Mgmt Evergreen R&D Landfill	PO, PA	Wood	OH	81,616	31,193	18,805	5,281	120	18,301	155,316
Hancock County Sanitary Landfill	GO, PA	Hancock	OH	3						3
BFI Carbon Limestone Sanitary Landfill	PO, PA	Mahoning	OH		8					8
AM Stericycle/BFI Medical Waste, Inc	PO, PA	GT	OH	1						1
Sunny Farms Landfill	PO, PA	OSS	OH	3						3
Out-of-State Facilities										
Republic Vienna Junction	PO, PA	Monroe	MI	141,572	51,613					193,185
Carleton Farms	PO, PA	Lenawee	MI				183,020			183,020
TOTALS				**375,738**	**82,814**	**18,805**	**188,301**	**120**	**19,281**	**685,059**

Source:
2008 Ohio Facility Data Report Tables, Ohio EPA
2008 Lucas County Annual District Report
Follow-up phone calls with Out-of-State Facilities

Note:
The auto shredder residue counts toward the residential/commercial waste disposal total.

C. Existing Incinerators and Resource Recovery Facilities

All incinerators required to have air quality permits through the Toledo Division of Environmental Services would show up in **Table III-2** as an existing waste incinerator. The Toledo Division of Environmental Services keeps an inventory and reporting mechanism for each incinerator locations. During the reference year, the Toledo Division of Environmental Services did not have any incinerators or resource recovery facilities requiring air quality permits. It is noted that several small scale incinerators are in existence within the County but are all private use and used for cremation purposes and include the Lucas County Dog Warden's office and local funeral homes.

Table III-2: Solid Waste Incinerators and Resource Recovery Facilities Used by the District

Facility Name	Type of Facility	Location		Waste Received from the SWMD (TPY)					Total Ash Produced (TPY)
		County	State	Res/Comm	Industrial	Exempt	Total	Bypass Waste Received	
In-District Facilities									
N/A									
Out-of-District Facilities									
N/A									
Out-of-State Facilities									
N/A									

D. Existing Transfer Facilities

An important component of many solid waste and recycling collection systems is the ability to transfer materials at a central location in order to reduce the amount of time used going to the processing or disposal facility. Most transfer facilities have equipment which allows materials to be compacted and sometimes sorted for more efficient and larger transportation loads. In 2008, no official transfer facilities were in operation in the District.

During the reference year, FCR, Inc. was processing the recyclable materials for both the District's drop-off program and the City of Toledo's curbside recycling program. FCR, Inc. was using a cement mixing, sand and gravel location at the Kuhlman Corporation on 444 Kuhlman Drive in Toledo, Ohio as a central material storing area before transferring loads of recyclables to their facilities in Ann Arbor, Michigan and Delphos, Ohio. The Kuhlman Corporation rented bunkers for material storage to FCR, Inc.

In 2008, the District acquired a Material Recovery Facility located at 1011 Matzinger Road, which was subsequently upgraded and refurbished. On January 18th 2010, the District entered into a contract with Fondessy Enterprises, Inc. to operate said facility, and to provide material recycling processing and marketing services associated with the collection of recycled materials from the District operated drop-off recycling program.

E. Existing Recycling and Household Hazardous Waste Collection Activities

The purpose of this subsection is to identify all recycling and household hazardous waste (HHW) activities and facilities in operation during the reference year. The majority of this data was collected as part of the District's 2008 Annual District Report. In 2009, an additional survey was conducted to capture data from the following facilities that did not reply to the original 2008 Annual District Report survey. The following groups were contacted for data:

- All Political Subdivisions (Cities, Townships and Villages)
- Curbside Recycling Service Providers
- Recycling Processors, Scrap Yards and Recycling Brokers
- Household Hazardous Waste Providers

All municipalities, service providers and facilities received a letter from the District outlining the purpose of the survey and an online survey link to www.surveymonkey.com. A copy of the survey can be found in Appendix F. Both the District and the University of Toledo Business Waste Reduction Assistance Program conducted follow-up phone calls to capture additional data to complete this section during 2009 and 2010.

During the reference year, nine of the twenty-one municipal communities had non-subscription curbside waste and recycling service. Non-subscription curbside service is where the municipality provides for the collection of curbside waste and recycling service to all residents either with their own collection crews and vehicles or through a contracted service vendor. In all of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were available for collection. The remaining twelve municipal communities had subscription curbside service. This type of service provides residents the opportunity to pay or "subscribe" individually for waste and/or recycling service with a collection service vendor.

Four of the non-subscription curbside programs provide their own collection and include the City of Toledo, Village of Holland, Village of Ottawa Hills and Village of Whitehouse. Eight of the nine non-subscription programs reported recycling data totaling 8,274tons.

In 2009, the City of Toledo implemented a new automated waste and recycling collection system with the hopes to increase recycling rates. The new recycling program utilizes a single stream recycling process. Residents set out their plastic bottles, metal cans, glass, mixed papers and cardboard every other week. In past years, the City has recycled approximately 4,000 tons of material annually as part of their dual stream every other week collection program. In January 2010 alone, residents recycled over 1,000 tons of material. The City of Toledo expects to see a total of 22,000 tons of recycling collected in 2010.

The District has an extensive system of public, private and school drop-off recycling sites. During the reference year, the District operated, maintained and serviced 177 drop-off locations including 20 urban public, 10 rural public, 63 private and 84 school drop-off collection sites. The urban and rural public drop-off sites are open to all County residents 7 days a week and collect three streams of materials including commingled papers (newspapers, office paper, junk mail, magazines, phone books), cardboard (corrugated, dry food boxes) and commingled containers (aluminum, bi-metal cans, glass – clear, brown and green, #1 and #2 plastic bottles). The majority of private and school drop-off sites collect cardboard and mixed paper, with a few collecting commingled containers.

The District provides all County residents with a permanent year-round drop-off site for disposing and recycling of specialty wastes including household hazardous wastes, scrap tires, electronics and batteries. The District contracts with a collection vendor, Heritage Environmental for these services. The District accepts a long list of flammable, toxic, poisonous, corrosive and caustic household hazardous wastes by appointment and free of charge. The District also collects at the same site passenger, truck and recreational vehicle tires and a long list of electronics for recycling all on a user fee based system. Municipalities can additionally drop-off their scrap tires and scrap electronics for a fee at the District collection site.

Table III-4 provides an inventory of all municipal non-subscription and subscription curbside recycling programs. **Table III-5** provides an inventory of all urban and rural public drop-off sites, recycling processors, scrap yards and recycling brokers in the District. **Table III-5A** provides an inventory of all private and school drop-off sites in the District.

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

Curbside Recycling Name Address Phone #	Type of Curbside	# of HH Served	Frequency of Collection	Average # of HH's Participating	Service Area County Townships/Cities	Type of Materials Accepted	Recyclables Processed from the SWMD (TPY)
City of Maumee 400 Conant St. Maumee, OH 43537 419-897-7100	NS	5,135	Weekly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans; Yard Waste	1,244 Allied/Republic Waste
City of Oregon 5330 Seaman Rd Oregon, OH 43616 419-698-7047	NS	6,688	Bi-Monthly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	728 Waste Mgmt
City of Sylvania 6730 Monroe St. Sylvania, OH 43560 419-882-7102	NS	6,290	Weekly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	1,343 Allied/Republic Waste
City of Toledo One Government Center Toledo, OH 43604 419-936-2510	NS	98,237	Bi-Monthly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	4,200 City Provided
Village of Holland 1245 Clarion Rd. Holland, OH 43528 419-865-7104	NS	606	Weekly	425	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A Materials taken to LCSWMD
Village of Ottawa Hills 2125 Richards Rd. Toledo, OH 43606 419-536-1111	NS	1,647	Weekly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	119 Materials taken to LCSWMD
Village of Whitehouse 6655 Providence St. Toledo, OH 43571 419-877-5383	NS	1,500	Bi-Monthly	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	105 Village Provided
Township of Waterville 621 Farnsworth Drive Waterville, OH 43566 419-878-5176	NS	611	Bi-Monthly	440	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	200 Fondessy Enterprises

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

Curbside Recycling Name Address Phone #	Type of Curbside	# of HH Served	Frequency of Collection	Average # of HH's Participating	Service Area County Townships/Cities	Type of Materials Accepted	Recyclables Processed from the SWMD (TPY)
Village of Waterville 25 N Second St. Waterville, OH 43566 419-878-8107	NS	3,249	N/A	1,420	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	335 Stevens Disposal
Village of Berkey 12360 Sylvania-Megamora Rd 43504 419-829-5785	S	102	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Village of Harbor View 127 Lakeview Dr. 43434 419-698-8107	S	46	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Harding 14153 Old Stateline Rd. Swanton, 43558 419-826-5313	S	251	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Jerusalem 9501 Jerusalem Rd. Curtice, OH 43412 419-836-8921	S	1,165	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Monclova 4335 Albon Rd. Monclova, OH 43542 419-865-7862	S	4,407	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Providence 13257 Perry Rd. Grand Rapids, OH 43522 419-875-6531	S	1,054	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Richfield 3951 Washburn Rd. Berkey, OH 43504 419-829-2781	S	457	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A

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

Curbside Recycling Name Address Phone #	Type of Curbside	# of HH Served	Frequency of Collection	Average # of HH's Participating	Service Area County Townships/Cities	Type of Materials Accepted	Recyclables Processed from the SWMD (TPY)
Township of Springfield 7617 Angola Rd. Holland, OH 43528 419-865-0239	S	7,464	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Swanton 13410 Airport Hwy Swanton, OH 43558 419-826-9730	S	827	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Village of Swanton 219 Chestnut St. Swanton, OH 43558 419-826-9515	S	10	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Sylvania 4927 Holland-Sylvania Rd., Sylvania, OH 43560 419-882-0031	S	10,386	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A
Township of Washington 5714 Blessing Dr. Toledo, OH 43611 419-726-6621	S	1,024	N/A	N/A	see first column	ONP; OMG; OCC; HDPE; PETE; Glass; Al/Fe Cans	N/A

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

Abbreviations:

- Type of Curbside- S: Subscription Curbside; NS: Non-Subscription Curbside
- Type of Material- ONP: Old Newspapers; OMG: Old Magazines; OP: Office Paper; OCC: Old Corrugated Cardboard; HDPE: High-Density Polyethylene (milk jugs and detergent bottles); PET: Polyethylene terepthalate (soda bottles); Al/Fe Cans: Aluminum and Ferrous (steel/bi-metal) Cans
- N/A – Not Available

Notes:

- Municipal surveys were sent to all municipalities in March 2009 to request data to populate the fields of this table. Both the District and the University of Toledo Business Waste Reduction Assistance Program conducted follow-up phone calls to capture additional data to complete this section during 2009 and 2010.
- Village of Whitehouse discontinued their non-subscription municipally run curbside recycling program in 2010

Sources:

Lucas County Auditor's Office provided data representing number of households for each municipal community.

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Curbside Recycling Hauler Collection - Private								
Allied/Republic Waste 6749 Dixie Hwy. Erie, MI 48133 734-848-3633	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County City of Sylvania (HH - 6,290), City of Maumee (HH - 5,135)	N/A	2,587	R: 100%	N/A	N/A
Waste Management, Inc. 6525 Wales Northwood, OH 43619 800-343-6047	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County City of Oregon (HH - 6,688)	72	728	R: 100%	N/A	N/A
Stevens Disposal 16929 Ida West Rd. Petersburg, MI 49270 734-856-8451	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County Vlg of Waterville (HH - 3,249)	N/A	335	R: 100%	N/A	N/A
Fondessy Enterprises 2650 York Street Toledo, OH 43605 419-389-4950	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County Twp of Waterville (HH – 611)	N/A	200	R: 100%	N/A	N/A
Curbside Recycling Hauler Collection - Municipal								
City of Toledo	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County City of Toledo (HH - 98,237)	N/A	4,200	R: 100%	N/A	N/A
Village of Holland	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County Vlg of Holland (HH - 606)	N/A	Included in LCSWMD totals	R: 100%	N/A	N/A
Village of Ottawa Hills	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County Vlg of Ottawa Hills (HH - 1,647)	N/A	Included in LCSWMD totals	R: 100%	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Village of Whitehouse[1]	HC	OCC; ONP; OMG; Glass; PETE; HDPE; Steel/Alum Cans	Lucas County Vlg of Whitehouse (HH - 1,500)	N/A	105	R: 100%	N/A	N/A
Drop-off Recycling Facilities – The District operates the following FULL SERVICE URBAN drop-off locations								
Arrowhead Fire Station Dussel Dr.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (Glendale) 5109 Glendale	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Hoffman Landfill Hoffman Road	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (Jackman) 4925 Jackman Rd	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (King) 7545 Sylvania Rd.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Lucas County Fairgrounds 1406 Key St.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Maumee Bay State Park N.Curtice Road	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Monclova Township Albon/Monclova Rds	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (Monroe/Secor) 4533 Monroe	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Pearson Metro Park 4600 Starr	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Promenade Park Water Street	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Secor Metro Park 10000 W. Central	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Springfield Twp Hall 7617 Angola Road	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Springfield Fire Station 2 1534 S. Crissey Rd	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Springfield Fire Station 3 7145 Garden Rd	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (Springfield) 1414 Spring Meadows	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Kroger (Suder) 4633 Suder Ave	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Village of Waterville 25 N. Second St.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Village of Waterville 621 Farnsworth	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Wildwood Metro Park 5100 W. Central	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Drop-off Recycling Facilities – The District operates the following FULL SERVICE RURAL drop-off locations								
Village of Harbor View 4421 Bayshore Rd.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Village of Holland 1245 Clarion	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Jerusalem Township 9501 State Road 2	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Oak Opening Metro Park Girdham	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Village of Ottawa Hills 2125 Richards	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Providence Township 13344 Perry	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Providence Metro Park 13205 Rt. 578	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Richfield Township 3951 Washburn	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Spencer Township 630 N. Meilke Road	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Swanton Township P. Conway Rd	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Village of Whitehouse 6625 Providence St.	DO/PA	OCC; UBC; ONP; OMG;	Lucas (442,897) All Townships/Cities	168	10,840[2]	R: 100%	N/A	N/A
Recycling Processors, Buybacks, Scrap Yards, Hauler Collection, and Other Recycling Activities								
Allied/Republic Waste 6749 Dixie Hwy. Erie, MI 48133 734-848-3633	HC/DO/ PA	OCC; ONP; OMG; Glass; PETE; HDPE; FE; Non-FE	Lucas All Townships/Cities 442,897	N/A	N/A	R: 60% C: 20% I: 20%	N/A	N/A
Waste Management Evergreen RDF 2625 E. Broadway Northwood, OH 43619 800-343-6047	HC/DO/ PA	OCC; ONP; OMG; Glass; PETE; HDPE; FE; Non-FE	Lucas All Townships/Cities 442,897	N/A	N/A	R: 60% C: 20% I: 20%	7,500	N/A
Toledo Shredding 275 Millard Ave. Toledo, OH 43615	DO	FE; Non-FE	Lucas All Townships/Cities 442,897	58	Conf.	R: 85% I: 15%	750	150,000
BOB, Inc. 3130 Front St. Toledo, OH 43607	DO	Liners for Windshields	Lucas All Townships/Cities 442,897	N/A	N/A	I: 100%	N/A	N/A
Gateway Recycling 1800 N. Water St. Toledo, OH 43611	Comm/ Ind DO	OCC; OP; Plastics	Lucas All Townships/Cities 442,897	40	Conf.	R: 5% C + I: 95%	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
R & M Recycling 4103 Lagrange St. Toledo, OH 43612	DO/PA	FE; Non-FE; Batteries	Lucas All Townships/Cities 442,897	49	Conf.	C + I: 100%	N/A	N/A
State Paper & Metal 1118 W. Central Ave. Toledo, OH 43610	DO	Non-FE; FE; OCC; ONP; OMG; OP	Lucas All Townships/Cities 442,897	49	N/A	N/A	1,000	12,000
Metal Management Ohio 2535 Hill Ave. Toledo, OH 43607	DO/PA	Non-FE; FE	Lucas All Townships/Cities 442,897	44	Conf.	R: 30% C: 20% I: 50%	N/A	N/A
Edelstein Recycling Center Omni Source 1320 Lagrange St Toledo, OH 43608	DO/SY/ PA	FE; Non-FE	Lucas All Townships/Cities 442,897	48	Conf.	C: 50% I: 50%	N/A	N/A
M & K Metals 6946 Co. Rd. 5 Delta, OH 43515 419-822-5188	SY/PA	FE: Non-FE	Lucas All Townships/Cities 442,897	49	N/A	N/A	N/A	N/A
Certified Document Destruction 300 W Chestnut St Wauseon, OH	BR/PA	OP; OCC; ONP	Lucas All Townships/Cities 442,897	40	N/A	C: 80% I: 20%	N/A	N/A
Environmental Recycling 5265 Tractor Rd Toledo, OH 43612 800-248-9107	BR/PA	Fluorescent tubing	Lucas All Townships/Cities 442,897	N/A	N/A	N/A	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Findlay Foam Recycling 1831 East Manhattan Blvd Toledo, OH 43609 419-866-0693	DO/BR/ PA	Carpet Products; OP, PETE; HDPE	Lucas All Townships/Cities 442,897	N/A	N/A	I : 100%	N/A	N/A
Lott Industries 3350 Hill Ave. Toledo, OH 43607 419-536-5564	BR/PA	OP; OCC	Lucas All Townships/Cities 442,897	33	Conf.	C: 60% I: 40%	70	2,654
Midtown Pallet & Recycle 3017 Council St Toledo, OH 43606	BR/PA	Wood Packaging; Pallets; Plastics	Lucas All Townships/Cities 442,897	43	N/A	I : 100%	40	N/A
Pallets & Container Corp. 901 Buckingham St Toledo, OH 43607	BR/PA	Wood Packaging; Pallets; OCC	Lucas All Townships/Cities 442,897	40	N/A	C : 100%	N/A	12
Toledo Recycling 4130 Creekside Ave Toledo, OH 43612	SY/PA	FE; Non-FE; ONP; OMG; OCC; OP, PET, HDPE; Glass	Lucas All Townships/Cities 442,897	40	N/A	N/A	N/A	N/A
Omni Source Metals 2453 Hill Ave Toledo, OH 43607	DO/SY/ PA	FE; Non-FE	Lucas All Townships/Cities 442,897	40	Conf.	C: 20% I : 80%	N/A	N/A
Sims Metal Management 2535 Hill Ave. Toledo, OH 43607	PA/RB/ DO/HC	FE; Non-FE	Lucas All Townships/Cities 442,897	46	N/A	I: 95%	N/A	9,900
Max Tech Antifreeze & Recycling 1101 Monroe St. Toledo, OH 43604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
MaxTech Recycling 1751 Gilbert Rd. Toledo, OH 43614	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycle With Michael 1140 W. Central Ave Toledo, OH 43610	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Waste Salvage Solutions, Inc. 1058 S. Wheeling St. Oregon, OH 43616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling Services 3940 Technology Dr. Maumee, OH 43537 419-381-7762	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HHW, Scrap Tires and E-Waste Collection								
Heritage Environmental 5451 Enterprise Blvd. Toledo, OH 43612 419-729-3812	DO	HHW	Lucas All Townships/Cities 442,897	By appt.	27	R: 95% C: 5%	N/A	N/A
Heritage Environmental 5451 Enterprise Blvd. Toledo, OH 43612 419-729-3812	DO	E-waste	Lucas All Townships/Cities 442,897	By appt.	48	R: 95% C: 5%	N/A	N/A
Heritage Environmental 5451 Enterprise Blvd. Toledo, OH 43612 419-729-3812	DO	Tires	Lucas All Townships/Cities 442,897	By appt.	315	R: 95% C: 5%	N/A	N/A

Table III-5: Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and Household Hazardous Waste Collection Used by the District

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
TOTALS[3]					325,150			

Abbreviations:

- Type of Facility- PA: Publicly-Available; PUO: Private Use Only; DO; Drop-off Facility; BR: Recycling Broker; SY: Scrap Yard; HC: Hauler Collection
- Type of Materials- ONP: Old Newspapers; OMG: Old Magazines; OCC: Old Corrugated Cardboard; OP: Office Paper; HDPE: High-Density Polyethylene (milk jugs and detergent bottles); PET: Polyethylene terepthalate (soda bottles); Al/Fe Cans: Aluminum and Ferrous (steel/bi-metal) Cans; FE: Ferrous Metals; Non-FE: Non-Ferrous Metals; UBC: Unsorted Bottles and Cans.
- Conf. – Business gave data to the District, but asked to keep it confidential.
- N/A – Not Available

Sources:

District used local phone books and internet searches to identify all facilities and businesses that process recyclable material for the District. Data based on surveys and telephone follow-up conducted in 2009 and 2010. It is noted that several facilities and businesses would not return the District's phone calls, even after three and four attempts.

Notes*:*

[1] Village of Whitehouse discontinued their non-subscription municipally run curbside recycling program in 2010

[2] Includes data for all drop-off sites serviced by the District including the 20 urban public, 10 rural public, 63 private and 84 school drop-off collection sites.

[3] Total recycling data includes data that was asked to be kept confidential.

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Drop-off Recycling Facilities – The District operates the following PRIVATE drop-off locations								
Toledo Sanitation Garage 2411Albion	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Alltel Dussell Drive	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
All Shred 3940 Technology Drive	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
American Canvas South Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Andover Apartments 2555 Eastgate Road	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Barnes & Noble 4940 Monroe St	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
BAX Global 20A Airport	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Brondes Ford 5545 Secor	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Budget Baths & Overhead Door 5211 SecorRd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
City of Toledo 110 Westwood Ave	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
CYO Complex 555 S. Holland -Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Dunn Business Center Brown & Curtice Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Fallen Timbers 7711 Stitt Rd Waterville	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Fassett Apartments 605 Fassett St	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Fifth Third Bank 1 Seagate	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Heather Hill Apartments 4835 Heatherdowns	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
House of Emmanuel Angola & Irwin Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC / Toledo Health Dept 635 N. Erie Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lucas County Garage 701 Adams	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lucas County Dog Warden 410 S. Erie	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Economic Del / Tmacog 300 Martin L. King Dr.	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Emergency 911 Bldg 2144 Monroe St.	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lucas County Facilities 1819 Canton Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Family Court Building 429 Michigan & Jackson	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Juvenile Justice 12th Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Road Engineers 2504 S. Detroit Avenue	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Sanitary Engineers 1111 S. McCord Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Lucas County Source 12th Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Vehicle Maint. Garage State Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
LC Wastewater Treatment 5757 North River Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Maritime Plaza 1 Maritime Plaza	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Michaelmas Manor 3260 Schneider Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Moose Lodge	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Mud Hens Washington Street	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
National Guard 2660 S. Eber	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Oak Shade Grove Seaman Oregon	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Oblate Residences Schneider Road	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Ohio DOT 1600 Detroit Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Office Furniture Silca Drive	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Owens Corning 1 Owens Corning Parkway	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Perstorp 710 Matzinger Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Ransom & Randolph Briarfield Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Seagate Convention Center 401 Jefferson	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
SFC Graphics Woodruff	PUO/ DO	OCC; ONP; OMG	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. Charles Hospital 2600 Navarre	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. Charles Child Dev 2600 Navarre	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. Charles Crest Home	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Sun Oil (Lindy Contractor) Navarre Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Sylvania Country Club	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Team Sports 6144 Merger Drive	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Botanical Gardens 5403 Elmer	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Correctional Facility Central Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Fire Dept Maint Detroit Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Fire Dept Beech Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Water Department	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Waterville Sheet Metal	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
William Fund Company 145 Chesterfield Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Zoo 749 Spencer	PUO/ DO	OCC; ONP; OMG; OP; UBC	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Drop-off Recycling Facilities – The District operates the following SCHOOL drop-off locations								
Alliance Academy 1501 Monroe St.	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Anthony Wayne Schools 5967 Finzel Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Arbor Hills Junior High 5334 Whiteford Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Aurora Academy 541 Utah	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Autism Society of N.W. Ohio 4848 Dorr St.	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Bennett Venture Academy 5130 Bennett Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Beverly Elementary 4022 Rugby	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Blessed Sacrament Elem 2216 Castlewood	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Burroughs Elementary 2404 South	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Central Catholic HS 2550 Cherry	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Christ the King Elementary 4100 Harvest Lane	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Clay High School 5665 Seaman Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Coy Elementary Pickle Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Crissey Elementary 9220 Geiser Holland	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Crossgates Elementary 3901 Shady Lawn	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
DeVeaux Junior High 2626 Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Dorr Elementary 1205 King	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Eisenhower Middle School 331 N. Curtice Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Elmhurst Elementary 4530 Elmhurst	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Emmanuel Baptist 4607 Laskey Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Englewood Peace Academy 1120 Horace	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Fassett Middle School 3025 Starr	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Fort Miami Elementary 2501 River Rd Maumee	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Franciscan Academy 5225 West Alexis Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Gateway Middle School 900 Gibbs Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
GESU 2049 Parkside Blvd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Glendale-Feilbach Elem 2317 Cass Road	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Grove Patterson Academy 3301 Upton	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Hawkins Elementary 5550 W. Bancroft	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Highland Elementary 7720 Erie	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Hillview Elementary 5424 Whiteford	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Holland Elementary 7001 Madison Holland	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Holloway Elementary 6611 Pilliod Holland	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Jackman Elementary 2010 Northover	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lagrange Elementary 1001 North Erie	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Larchmont Elementary 1515 Slater	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Leverette Middle School 1111 E. Manhattan	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lial School 5900 Davis	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Longfellow Elementary 4114 Jackman	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Lourdes College 6832 Convent Blvd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Maplewood Elementary 6769 Maplewood	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Maumee H.S. 1147 Saco Maumee	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Maumee Valley Cty Day 1715 S. Reynolds Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
McCord Junior High 4304 McCord Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
McKinley Elementary 1901 W. Central	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Meadowvale Elementary 2755 Edgebrook	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Monac Elementary 3845 Clawson Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Northview High School 5403 Silca Dr	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Ottawa Hills Elementary 6145 Hill Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Ottawa Hills High School 2532 Evergreen	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Our Lady of Lourdes 6145 Hill Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Our Lady of Perpetual Help 2255 Central Grove	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Regina Coeli Elementary 600 Regina Parkway	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Reynolds Elem School 5000 Norwich	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Robinson Middle School 1007 Grand Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Rogers High School 5539 Nebraska	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Sacred Heart Catholic 824 Sixth Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Scott H.S. 2400 Collingwood Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Shoreland Elementary 5650 Suder	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Southview H.S. 7225 Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Springfield H.S. 1470 McCord Holland	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Springfield Middle School 7001 Madison Holland	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. Joan of Arc 5950 Heatherdowns Blvd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. John's H.S. 5901 Airport Hwy	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. John the Baptist 2729 124th Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
St. Pius X School 2950 Ilger Ave	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Starr Elementary School 3230 Starr	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Stautzenberger College 1796 Indian Wood Circle	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Stewart Academy 707 Avondale	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Stranahan Elementary 3840 Holland-Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Sylvan Elementary 4830 Wickford Dr Sylvania	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Christian School 2303 Brookford	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Islamic Academy 5225 W. Alexis	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Toledo Technology Center Woodruff & 12th	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
University of Toledo Main Campus	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
University of Toledo Rocket Stadium	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
University of Toledo Savage Hall	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
University of Toledo Scott Park	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Wayne Trail Elementary 1147 7th Street	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Wernert Elementary 5050 Douglas Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Table III-5A: District Private and School Drop-off Locations

Facility/Activity Name	Type of Facility or Activity	Type of Materials Accepted	Service Area	Hours Available to Public	Recyclables Processed from the SWMD (TPY)	% of Material from Each Sector (R,C,I)	Processing Capacity (tons)	
			County Townships/Cities Population Served				Daily	Annual
Whiteford Elementary 4708 Whiteford Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Whitmer High 5601 Clegg	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Wildwood Environmental Acad 1546 Dartford	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Wynn Elementary 5224 Bayshore Oregon	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A
Zion Lutheran Elementary 630 Cuthbert Rd	PUO/ DO	OCC; ONP; OMG; OP	Lucas County	N/A	10,840[1]	C: 100%	N/A	N/A

Abbreviations:

- Type of Facility- PUO: Private Use Only; DO; Drop-off Facility;
- Type of Materials- ONP: Old Newspapers; OMG: Old Magazines; OCC: Old Corrugated Cardboard; OP: Office Paper; UBC: Unsorted Bottles and Cans.
- N/A – Not Available

Notes*:*

[1] Includes data for all drop-off sites serviced by the District including the 19 urban public, 10 rural public, 60 private and 85 school drop-off collection sites.

F. Existing Composting/Yard Waste Management Facilities

During the reference year, the District had 10 class III/IV yard waste facilities including four municipally operated yard waste collection programs (City of Toledo, City of Sylvania, City of Maumee and City of Oregon) in operation. Sylvania Township, Village of Whitehouse, Village of Waterville and Village of Holland all had contracted curbside yard waste collection.

In addition to these facilities and programs, the District provides residents with a permanent year-round drop-off collection program at two Clean Wood Recycling locations within the District. All residents can dispose of their lawn and yard debris at no charge and with no appointment. Residents may drop-off branches (less than 6" in length), Christmas trees, shrubbery, wood chips, leaves, grass clippings and tree trunks (less than 10" in diameter). All yard wastes from rental and commercial properties, haulers, landscape and lawn care companies are assessed a fee when materials are dropped off. The yard waste facility is open seven days a week April through October and six days a week with more limited hours November through March.

During the reference year, the District operated yard waste sites serviced 80,242 cars collecting 32,784 tons of yard waste materials. The remainder of the yard waste facilities within the District collected 26,497 tons of yard waste materials.

The District acquired their composting and yard waste data through a series of methods. The District's yard waste contract with Clean Wood Recycling requires the facility to report their compost and yard waste data directly into the District's online ReTRAC data management tool. A facility list of class I/II and class III/IV compost facilities was used via the Ohio Environmental Protection Agency's website to gather all additional facilities operating within the District. These municipal and private compost and yard waste facilities were then surveyed in 2009 and follow-up phone calls were made in 2009 and 2010 to collect all needed data. Additionally the District used the 2008 Ohio Environmental Protection Agency's Compost Facility Report to gather data for **Table III-6**.

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

Facility Name or Activity	Facility Type (Class or Other)	Location		Waste Received from SWMD		Processing Capacity		Non-compostables Landfilled (TPY)	Compost Produced (TPY)
		County	Address Phone #	Type	Amount (TPY)	Daily (TPD)	Annual (TPY)		
Allgreen, Inc.	Class III/IV	Lucas	9940 Old Airport Hwy. Holland, OH	Yard Waste	1,127	N/A	N/A	N/A	N/A
Bauer Lawn Maintenance Inc.	Land Applied	Lucas	6341 Monclova Rd. Maumee, OH 43537 419-893-5296	Wood Chips	933[1]	N/A	N/A	N/A	N/A
Blue Creek	Class III/IV	Lucas	7700 Schadel Rd. Whitehouse, OH	N/A	N/A	N/A	N/A	N/A	N/A
Bob Keyser	Land Applied	Lucas	13415 Brindley Rd. Swanton, OH 43558 419-825-1244	N/A	N/A	N/A	N/A	N/A	N/A
City of Maumee Wood Chips	Curbside	Lucas	210 Illinois Avenue Maumee, OH	Brush	N/A	N/A	N/A	N/A	N/A
City of Maumee Leaf Composting	Class IV	Lucas	1595 W. River Rd Maumee, OH 43537 419-897-7150	Leaves	1,726	N/A	N/A	N/A	N/A
City of Oregon Compost	Class III/IV Curbside	Lucas	444 Otter Creek Rd. Oregon, OH 43616 419-698-7016	Leaves, Wood Chips, Grass	1,133	N/A	N/A	N/A	N/A
City of Sylvania	- Curbside	Monroe, MI	Yankee Road Monroe, MI 419-885-8992	Yard Waste, Leaves	5[4]	17	3,100	0	N/A
City of Toledo Division of Forestry	Class III/IV	Lucas	221 Elmdale Avenue Toledo, OH	Yard Waste, Leaves	400	N/A	N/A	N/A	N/A
City of Toledo	Curbside	Lucas	Central Ave Toledo, OH 43606 419-936-2510	Leaves	10,940[2]	N/A	N/A	N/A	N/A
Clean Wood Recycling, Inc. (District Program)	Class IV	Lucas	6505 W. Bancroft St. Toledo, Ohio 43615 419-843-9663	Yard Waste, Wood Chips, Leaves	32,784	N/A	N/A	N/A	N/A

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

Facility Name or Activity	Facility Type (Class or Other)	Location		Waste Received from SWMD		Processing Capacity		Non-compostables Landfilled (TPY)	Compost Produced (TPY)
Clean Wood Recycling, Inc.[3] (Add'l Yard Waste)	Class IV	Lucas	6505 W. Bancroft St. Toledo, Ohio 43615 419-843-9663	Yard Waste, Wood Chips, Leaves	14,752	N/A	N/A	N/A	N/A
Floralandscape	Class III/IV	Lucas	130 Elmdale Toledo, OH	N/A	341	N/A	N/A	N/A	N/A
Hanson Aggregates Midwest	Land Applied	Lucas	8130 Brint Rd. Sylvania, OH 43560	N/A	N/A	N/A	N/A	N/A	N/A
Michael Miller/ Garden Rd.	Mulching	Lucas	9340 Garden Rd. Monclova, OH 43542 419-861-4877	Leaves	N/A	N/A	N/A	N/A	N/A
Michael Miller/ Maumee Western	Mulching	Lucas	9878 Maumee Western Monclova, OH 43547 419-861-4877	Leaves, Wood Chips	N/A	N/A	N/A	N/A	N/A
Mulch It of Toledo	Mulching	Lucas	715 Spencer St. Toledo, OH 43609 419-290-0527	N/A	N/A	N/A	N/A	N/A	N/A
Robert Krichbaum	Mulching	Lucas	3129 Weckerly Rd. Monclova, OH 43542 419-865-6433	Leaves, Wood Chips	55[1]	N/A	N/A	N/A	15
Schwamberger Road Facility	Class III/IV	Lucas	2001 Schwamberger Rd. Holland, OH 43528 419-829-5296	Grass, Leaves, Brush	29	N/A	N/A	N/A	N/A
Springfield Township - Zappone Property	Class III/IV	Lucas	1015 Crissey Rd. Holland, OH	N/A	2,828	N/A	N/A	N/A	N/A
Sylvania Township	Curbside	Lucas	Contracted Service	Leaves and Brush	300[4]	N/A	N/A	N/A	N/A

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

Facility Name or Activity	Facility Type (Class or Other)	Location		Waste Received from SWMD		Processing Capacity		Non-compostables Landfilled (TPY)	Compost Produced (TPY)
Village of Holland	Curbside	Lucas	Contracted Service	Leaves and Brush	N/A	N/A	N/A	N/A	N/A
Village of Waterville	Curbside	Lucas	Contracted Service	Leaves	2,370[4]	N/A	N/A	N/A	N/A
Village of Whitehouse	Curbside	Lucas	Contracted Service	Leaves and Brush	1,167[1]	N/A	N/A	N/A	N/A
Waste Management Evergreen RDF	Class IV	Wood	2625 E. Broadway Northwood, OH 43619 800-343-6047	Yard Waste, Wood Chips, Leaves	472[4]	N/A	N/A	N/A	885
Waterville Public Works Facility	Class III/IV	Lucas	1215 Waterville-Monclova Rd Waterville, OH 43566	Yard Waste, Wood Chips, Leaves	1,014	N/A	N/A	N/A	N/A
TOTALS					59,281				

Abbreviations:
N/A – Not Available
Curbside – curbside leaf collection provided directly by public sector or through private sector contractor.

source:
Municipal and private compost and yard waste facilities were surveyed in 2009 and follow-up phone calls were made in 2009 and 2010 to collect all needed data.
2008 Ohio Environmental Protection Agency's Compost Facility Report

Notes:
[1] Leaves and brush collected are not counted as part of the "total" compost as material is mulched or land applied.
[2] The leaves collected by the City of Toledo curbside leaf collection program were taken to Clean Wood Recycling and the City of Toledo facility on Elmdale Road. For the purpose of this table, they were not included in the Grand Total to avoid double counting.
[3] Clean Wood Recycling collects additional yard waste for a fee from rental and commercial properties, haulers, landscape and lawn care companies. This yard waste is not part of the District's collection program, but is quantified on an additional row.
[4] Yard waste materials are transported out of the District for composting.

Table III-7: Facilities Used by the District which are Located Outside Ohio

Facility Name	Facility Address	Facility Owner	Facility Operator/Manager	Daily Waste Receipt Limit (TPD)	Number of Days Facility is Open During Year
Republic Vienna Junction Landfill	6233 Hagman Road Toledo, OH 43612 419-726-9465	Republic Waste 6233 Hagman Road Toledo, OH 43612 419-726-9465	John Stark Landfill Manager 6233 Hagman Road Toledo, OH 43612 419-726-9465	N/A	N/A
Republic Carleton Farms Landfill	28800 Clark Road New Boston, MI 48164 734-654-3615	Republic Waste 28800 Clark Road New Boston, MI 48164 734-654-3615	28800 Clark Road New Boston, MI 48164 734-654-3615	N/A	N/A

G. Existing Open Dumps and Waste Tire Dumps

Table III-8 presents a list of open dumps and waste tire dumps located within Lucas County. Information was provided by The Lucas County Health Department. The District has also included a comprehensive list of closed landfill locations in **Table III-8A** and a list of "other" dump and contaminated sites in **Table III-8B**.

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Angola Road	Map 01OWT		Unknown Angola Road Unknown Unknown	A mobile home park is constructed over the old dump. Ohio EPA found lead in the leachate in the spring of 1982.	N/A	16 years
Irwin Road Northwest side of Angola Rd	Map 02OWT	N/A	Unknown Angola Rd Unknown Unknown	Contains household and commercial wastes.	5 acre	It was active from 1945-1950.
King Rd Lucas Co. Sanitary Landfill	41 40'45" Map 03OWT	83 43'38"	Unknown 3535 King Rd Toledo, OH 43617 Unknown	Lucas County and the EPA are in the negotiation process for Natural Attenuation.	N/A	N/A
Dura Sanitary Landfill AKA: Toledo Landfill	44 41'55" Map 04OWT	83 32'00"	Unknown Dura Ave Toledo, OH 43612 Unknown	This site is under final cover. This site is maintained by the City of Toledo.	55 acres	N/A
Forest Cemetery	Map 05OWT	N/A	City of Toledo 1704 Mulberry Toledo, OH 43608 (419) 936-3081	An order to remove waste present at the site was issued by the U S Army Corps of Engineers in 1988. Compliance with the order was delayed due to an attempt made by the City of Toledo to have the Forest Cemetery wetlands included in the Buckeye Basin Greenbelt Project Services performed the Phase I assessment and found the waste to be innocuous. Remediation of this wetland was slated complete in the summer of 1996.	N/A	N/A
Greise Bros	Map 06OWT	N/A	Unknown 600-1 Bassett St Toledo, OH 43611 Unknown	The site is being investigated for solvent contamination.	N/A	N/A

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Manhattan Landfill AKA: Miracle Park	41 37'30" Map 07OWT	83 27'15"	Unknown 2020 Manhattan Blvd Toledo, OH 43608 Unknown	Part of Treasure Island closed in 1976. This dump had underground fires caused from aluminum oxide powder; however, there is no longer a fire hazard. The site had a leachate problem and closure status is uncertain. Received an OAC 3745-27-13 Authorization from OEPA in 1997. A parking lot was constructed for storage of vehicles from Chrysler.	21-34 acre	N/A
Mulberry Street Landfill	Map 08OWT	N/A	Unknown 1100 Elm St Toledo, OH 43608 Unknown	The site is near the Variety Club Beverage warehouse. It is presently a wooded area and investigations indicate the presence of soils of unknown origin, demolition materials, drums, asbestos containing materials (ACM) and abandoned USTs.	N/A	N/A
Swan Creek at Champion Street	Map 09OWT	N/A	Unknown Unknown Toledo, OH 43609 Unknown	Located on the south bank and west of Champion Street by Swan Creek. This site is connected to the Louis Street site #69 and has the same status.	N/A	N/A
Treasure Island Landfill	41 40'30" Map 10OWT	83 31'30"	Unknown Counter & Kalamazoo & York Sts Toledo, OH Unknown	Originally 3 smaller landfills (Manhattan Dump, Treasure Island Dump and Tuber Dump), containing industrial and municipal wastes. Chemical and underground fires occurred because of the presence of magnesium, but there is no longer a fire hazard. The site presently has 6" to 12" clay caps. Leachate draining from the site has been described as "black in color, odorous and septic". In January of 1993 sampling was conducted on behalf of USEPA to assess the potential health hazards of the site. Identified were semivolatile organics, heavy metals and pesticides including chlordane and DDt. Also identified were 4 Leaking Underground Storage Tanks (LUSTs) sites within a .5 mile radius of the subject site. This site may be affected by the Greenbelt Parkway expansion. Received an OAC 3745-27-13 Authorization from OEPA in 1997. A parking lot was constructed for storage of vehicles from Chrysler.	150 Acre	N/A

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Tyler St. Dump	41 41'35" Map 11OWT	83 27'15"	Unknown Tyler St Toledo, OH Unknown	Under final cover and gas extraction.	41 acres	N/A
W/S Ave Toledo Mun San Landfill	41 37'30" Map 12OWT	83 32'30"	Unknown South Ave & Maumee River Toledo, OH Unknown	Active from 1950-1957, formerly owned by Libbey-Owens-Ford. It contains municipal and industrial wastes with heavy metals and organics. Cargill installed sumps 20-30 ft deep in 1938 that discharged into Maumee River, but holding tanks have been installed to treat the discharge. Constructed over the fill are Anderson & Cargill Grain Elevators, Ohio Bell & Kuhlman Concrete. OEPA is investigating the role of these and former businesses located on the property in the contamination of the site.	50 acres	N/A
Willys Park	Map 13OWT	N/A	Daimler Chrysler Corporation Drexel Dr. Toledo, OH 43612 Unknown	This site under development by City of Toledo.	N/A	N/A
Bill's Road Oil Services (Closed)	Map 14OWT	N/A	Unknown 3500 York St Toledo, OH 43616 Unknown	This site contains two impoundments of waste disposal.	0.25 acres	N/A

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Consaul Street Landfill	41 39'30" Map 15OWT	83 29'30"	Unknown 2510 Consaul St. Toledo, OH 43605 Unknown	This landfill has been emitting leachate into Duck Creek since 1971. At that time an estimated 100,000 gallons/day was flowing into Duck Creek. In 1975, a leachate collection system was installed. The city contracted to have the system installed and connected to the Wheeling Street sanitary sewer system. In 1984, a sampling program was started to determine the leachate quality. In 1988, the system overflowed and about 300,000 gallons/day entered Duck Creek. Water began to surface at the dump in 1990, possibly from a leak in the water line. Holes in the system were found in 1991 and repaired. As of 1991 the system is leaching approximately 8,000 gallons/day into the sanitary system. Methane monitoring did not indicate any required actions would be needed. The principle contaminant is chlorine. Complaint received regarding high combustible readings in 2006. Complaint investigated and readings were for cyclohexane not methane gas. Property has a gas line that is buried on the property.	N/A	N/A
Florence Street Dump	Map 16OWT	N/A	Unknown Unknown Toledo, OH 43605 Unknown	Status and location of the dump is unknown.	N/A	N/A
Gradel Landfill	41 40'16" Map 17OWT	83 27'09"	Unknown 1150 Otter Creek Rd Toledo, OH 43616 Unknown	This site accepted municipal, industrial and commercial waste from 1969-1975. After closure Commercial Oil Services, Inc purchased the site. OEPA took samples 6/87 and found leachate in a field north of Fondessy Landfill.	N/A	N/A
Jerusalem Twp Dump	Map 18OWT	N/A	Unknown Unknown Northwood, OH 43619 Unknown	Wolf Creek Watershed	N/A	N/A

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
North Sixth Street	Map 19OWT	N/A	Toledo Lake Erie & Western RR 49 North Sixth Street Waterville, OH 43566	N/A	N/A	N/A
Sun Oil Co of Pennsylvania	41 37'57" Map 20OWT	83 39'24"	Unknown 1819 Woodville Rd Oregon, OH 43616 Unknown	In 1990 a survey was conducted at the Lake Charles Impoundment Basin. The purpose of the study was to chemically characterize the basin sediments and the groundwater prior to closure. Monitoring wells were installed and petroleum products were detected in 8 out of 9 wells. The tank basin is contaminated with lead. The properties next to the site are light commercial and the closest body of water is Otter Creek (about 800' away). The highest concentration detected in the soil from field scanning was 900 ppm for vapors at 20' below the surface. No portable wells were found in the vicinity of the contamination, and there is no indication that the contamination extends beyond the borders of the site.	N/A	N/A
Bush Site	Map 21OWT	N/A	10839 Old State Line Road Swanton, OH 43558 Unknown	This site contains several hundred 55-gallon drums containing metal shavings. In addition, numerous 5-gallon drums labeled "Smoothex" were found (Smoothex is a poison used with copper cyanide metal plating solution). In 1992 the well water was sampled and 31 PCB Methylene Chloride was detected. The husband received used water from businesses in the area about 30-40 years ago, according to his widow, though she was unable to recall any specific information about the businesses. This site is currently being handled by OEPA.	N/A	30 – 40 years

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Frankfort Auto Parts	Map 22OWT	N/A	Estel and Laurie Hudson 229 South Schwamberger Road Holland, OH 43528 Unknown	In December of 1993 OEPA investigated this site and discovered 50-100 55-gallon drums beneath a pile of deteriorating tires. Some of the drums have deteriorated to the point that they have released their contents. Two of the drums on the site had a placard bearing a "dispose of in an EPA approved TSD facility." LCHD has issued a Public Health Order. Facility is currently operated a junk yard – Estel's Auto World. 50,000 scrap tires were removed from the property. Clean up of scrap tires were completed on April 2008.	N/A	N/A
McCoy	Map 23OWT	N/A	Unknown Meilke Road Holland, OH 43528 Unknown	Site is under investigation; the case had been referred to the Lucas County Prosecutor's Office	N/A	N/A
Northern Ohio Asphalt Paving	Map 24OWT	N/A	Unknown 7920 Sylvania Ave Sylvania, OH 43560 Unknown	This site is located in the 10 Mile Creek watershed. The site was leaching hydrocarbons into the creek until 1979. In 1994 a self-contained leachate collection system was installed and no effluent has entered the creek since.	N/A	N/A
Ohio Air National Guard	41 35'30" Map 25OWT	83 14'35"	Toledo Express Airport 11013 Airport Highway Swanton, OH 43558 (419) 865-8739	The base was constructed in 1957 in undeveloped lowlands. The site is 84 acres and contains 32 buildings including hangers, a firehouse, storage, and maintenance buildings. Nine potential contaminated sites have been identified including one underground storage tank (UST). In a ground water analysis, methylene chloride, benzene, and biphthalate were detected. In sampling wells placed at the site, As, Cu, Pb, Ni, and Zn were detected at levels slightly above background. Swan Creek is down grade of the site, but there is no indication the site is leaching into the creek. Confirmed contaminants that were dumped at the site include battery acid, MEK, MIK, oils and acetone. No remedial action is presently occurring at the site. Site investigation report completed in 1992.	84 acres	41 years

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

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Rump	Map 26OWT	N/A	Unknown 915 S Raab St Swanton, OH 43558 Unknown	This case has been referred to the Lucas County Prosecutor's Office.	N/A	N/A
Kare Recycling	Map 27OWT		Charles Rosenblatt 2310/2322 Consaul Toledo, OH 43605 Unknown	15, 000 scrap tires removed from the property in 2006. Solid waste, construction and demolition debris, scrap autos, boats, clean hard fill, containers of used oil, waste antifreeze, waste gasoline, waste grease, lamps, spent lead acid batteries and an unknown substance possibly river dredgings were located on site. Health department was the owner and operator in court for open dumping. Property owner is currently working with OEPA Hazardous Waste division for removal of hazardous waste items.		N/A
Homer's Towing and Auto Parts	Map 28OWT		Patricia Hamblin 4848 N. Detroit Toledo, OH 43612 Unknown	Facility is an operation junk yard. Several thousand scrap tires are located on site. Site had a tire fire in July 2004. Property owner is under Public Health Order from the Health Department to remove the scrap tires.	N/A	N/A
Croskey Motorcycle Repair	Map 29OWT		Raymond and Ruby Croskey 9434 Frankfort Holland, OH 43528 Unknown	According to Mr. Croskey the property was purchased with a large number of scrap tires stored on site. Approximately 10, 000 scrap tires remain. Property owner is under Public Health Order from the health department to remove the scrap tires.	N/A	N/A
King of the Road Auto Parts	Map 30OWT		Pheasant Run Development 200 S. Meilke Holland, OH 43528 Unknown	Initially part of Spuds Auto and contained 50, 000 scrap tires. Mark and Linn Gorney of King of the Road Auto Parts purchased the property, and have removed some of the scrap tires. Site is under Public Health Order from the health department and OEPA issued Director's Final Findings and Orders to remove all of the tires. Property recently switched owners to Pheasant Run Development.	N/A	N/A

Table III-8A: Closed Landfill Locations

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Holland Village	Map 14CL	N/A	Unknown Unknown Unknown Unknown	Municipal landfill, closed	N/A	N/A
Providence Twp Dump	Map 17CL	N/A	Unknown Unknown Unknown Unknown	Municipal landfill, closed	N/A	N/A
Springfield-Monclova	Map 18CL	N/A	Unknown Unknown Unknown Unknown	Municipal landfill, closed	N/A	N/A
Swanton Twp Dump	Map 16CL	N/A	Unknown Unknown Unknown Unknown	Municipal landfill, closed	N/A	N/A
Jackman Road (closed) North of Alexis between Jackman and Lewis Ave	Map 34CL	N/A	Unknown Unknown Unknown Unknown	This closed landfill is in the Silver/Shantee Creek watershed.	N/A	N/A
Swan Creek Landfill	41 36'31" Map 12CL	83 39'24"	Unknown Glendale Ave Toledo, OH 43614 Unknown	There is presently no indication of a landfill in the area, which is residential.	N/A	N/A
Buckeye Street Landfill East of I-280 North near RR tracks	Map 08CL	N/A	Unknown Buckeye Street Toledo, OH Unknown	Closed, not under investigation. This is the site of a former municipal landfill and may also include some material waste by-products from area industries. When MEC performed a site investigation, leachate was seen seeping from several locations. This site may be affected by the Buckeye Basin Greenbelt Parkway.	N/A	N/A

Table III-8A: Closed Landfill Locations

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Westover Corp Sanitary Landfill (Closed)	41 39'58" Map 20CL	83 28'10"	Unknown Unknown Unknown Unknown	This parcel of land operated in a flood plain of Otter Creek. It contains municipal waste from residents of Oregon (40%), commercial (30%), industrial sludges, solvents, and paint waste from Dana, Manville, Sun Oil and BP (30%). A report from the early 1970's indicated aluminum oxide was a major contaminate at the site. The site is considered to be a minimal threat to the environment due to distance from water sources and wildlife.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Maumee Refining, Inc. AKA: Schachner Site	Not on Map	N/A	Unknown 600-680 Bassett St. Swanton, OH 43558 Unknown	Known as the Bassett St Warehouse, which was partitioned into several units and leased to a number of businesses. The owner was convicted of operating a hazardous waste treatment, storage and disposal facility without a permit, falsifying manifest information, lack of waste analysis and lack of record keeping. Approximately 338 (18,590 gal) drums of waste are stored in deteriorating containers at the site. According to an inventory list the waste consists of at least the following: urethane, plasticizer, organosol, plastisol, paint, oil based paints, tri-chrome blue, and acid cleaner. OEPA concluded these materials are being stored in a potentially hazardous manner.	N/A	N/A
NL Ind Inc. Bearings Div AKA: Bunting, Brass & Bronze	41 37'35" Not on Map	83 34'39"	Unknown 715 Spencer St Toledo, OH Unknown	Operated from 1916 to 1980; formerly Eagle-Picher Bearing Co. Containers at the site may contain heavy metals. Currently 8 businesses are located at the site. A fire occurred in 1993 and one building is almost completely destroyed. There is a possibility that USTs may be present. Northernmost building was demolished in 2008.	10 acre	N/A
North American Car Corp (NACC)	Not on Map	N/A	Unknown 4545 Hoffman Rd Toledo, OH 43611 Unknown	This property is a former railyard, leased by the Chessie System Railroad Company to NACC. NACC used the property to service and clean their freight cars from December 1978 until December1984, at which time the company declared bankruptcy. The site's possible contaminants are unknown.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
North Cove Landfill AKA: City Owned Dump	Not on Map	N/A	City of Toledo Unknown Toledo, OH 43612 Unknown	This site is located at the foot of Drexel Dr., I-75 and Cove, Toledo. Industrial residues, paint wastes, solvents and sludges and hydrocarbon vapors were discovered in 1979. The owners of American Car Corporation from 1941-1970 operated it. Chrysler, ODOT, and the City of Toledo have conducted remedial investigation and feasibility studies. The studies include sampling the Ottawa River for VOCs, total organic carbon, metals, PCB's, and dissolved oxygen. Monitoring wells have installed, samples have been taken and the feasibility study has been completed, pending its review by OEPA. An OAC 3745-27-13 was granted by the OEPA in 1995. A remediation plan was requested by Ohio EPA in n1999 which would consist of bank stabilization, bioremediation, and soil cover.	N/A	N/A
Oberly Ray Disposal	41 41'30" Not on Map	83 32'00"	Unknown 3812 Twining St Toledo, OH 43608 Unknown	This site is being investigated for oil and solvent contamination.	N/A	N/A
Owens-Illinois Libbey Plt 27	41 31'30" Not on Map	83 40'30"	Unknown 940 Ash St Toledo, OH 43611 Unknown	In 1800's, approximately 10,000 cu. ft. of furnaces and other wastes were buried. Arsenic and chromium are present in the soil. O-I plans to develop a hydraulic control trenching system to mitigate vinyl chloride impacted groundwater. This property is within the bounds of the Greenbelt Parkway.	N/A	N/A
Penn Central Transport AKA: Stanley Diesel Shop	Not on Map	N/A	Unknown 435 Emerald Ave Toledo, OH 43602 Unknown	This discharger does not show violations in its monthly operating reports, but OEPA questions these findings because the receiving stream appears to be severely impacted by oil discharge form the facility.	N/A	N/A
Perstorp AKA: Dupont E I DeNemours & Co, Inc.	41 42"23" Not on Map	83 32"15"	Unknown Matzinger Rd, P O Box 6568 Toledo, OH 43612 729-5448	There was a 2% formaldehyde solution discharge into a lagoon that is now filled in. The site drainage patterns are unknown, but no discharge to river has been detected.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Sheller-Globe Corp Armored Plastics	Not on Map	N/A	Unknown Lint & Dura Ave Toledo, OH 43612 Unknown	This is an RCRA regulated site containing approximately 100 drums of paint residues, though the solvent is believed to be evaporated.	N/A	N/A
Sheller-Globe	Not on Map	N/A	Unknown Dorr St E of Westwood Toledo, OH Unknown	This was a hazardous waste storage facility which sought closure in 1992. OEPA agreed that all activities regarding closure had been completed, though keeps them on a list as a generator until they apply for permit withdrawal.	N/A	N/A
South Cove Blvd	Not on Map	N/A	Unknown Unknown Unknown Unknown	Northeast of Beatty Park and Jermain Park, bounded on North by the Ottawa River and the south by S Cove Blvd, Toledo. This site is in the Ottawa River watershed and is contaminated with paint waste.	N/A	N/A
Textileather AKA: Gen Corp. AKA: Diversitech	Not on Map	N/A	Unknown 3729 Twining Toledo, OH 43608 729-3731	The site has PCB contaminated soil, and is under enforcement action by OEPA DERR	N/A	N/A
Toledo Coal Gas Plant AKA: Columbia Gas	Not on Map	N/A	Unknown S Erie St Toledo, OH 248-5151	The site is a former coal/gas mfg facility, possibly containing PAHs from coal tar that may be leaching into Swan Creek.	N/A	N/A
Toledo Tie Treatment Plant	41 38'10" Not on Map	86 36'30"	Arco Ind. Park S Frenchmans Rd Toledo, OH 43607 Unknown	This facility operated as a railroad tie treatment plant from 1909-1962. When the property changed ownership in March of 1993, 8 tanks containing creosote, 1 with zinc chloride and 1 mixing tank were removed. The site has soil contaminated with PAH's and is currently being investigated by the OEPA.	N/A	N/A
Webstrand Corp	40 38'30" Not on Map	83 33'00"	Unknown 525 Hamilton St Toledo, OH 43607 Unknown	The Allied Corporation formerly owned this site. T A Gleason investigated the site in 1986 and found soil to be contaminated with solvents, organics and heavy metals (lead and zinc). A remedial action plan was developed, though the current status is unknown.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
XXCHEM Company, Inc.	Not on Map	N/A	Unknown 3903 Stickney Ave Toledo, OH 43608 Unknown	OEPA has identified this facility as an illegal RCRA treatment, storage, and disposal facility. XXCHEM functioned as a hazardous waste management facility involved in reclaiming and recycling chlorinated solvents. A waste oil lagoon, which was closed in 1983 by draining and filling, was found to contain contaminated sludges (heavy metals, volatile organic compounds, and PCBs). OEPA is pursuing civil and criminal charges against the owner. The USEPA Emergency Removal section completed clean-up and removal of about 1,200 drums and 5 above ground blending tanks under funding from CERCLA. Waste material included spent solvents mixed with other wastes creating an incompatible storage situation. The site may contain an oil pond and an industrial landfill near the Ottawa River. In September of 1995, a fire ruined the abandoned building, the cause of which is unknown. "In 1995, USEPA proposed capping the Stickney Landfill and the south portion of this facility. This extension is necessary to cover the contaminated material in the area. In May 1996 OEPA observed contaminated leachate at the site, raising the concern at this site.	N/A	N/A
Commercial Oil Service Inc.	41 40'20" Not on Map	83 27'40"	Unknown 3600 Cedar Point Rd Oregon, OH 43616 Unknown	This facility began operations in 1949 recycling solvents, reclaiming oil and hazardous wastes in drums, tanks and lagoons. The site contains six lagoons, 40 tanks, and about 200 drums. Operations ceased in 1985 by court order. Samples from the site contain trichloroethylene, toluene, ethanol, xylene and trimethyl benzene. Heavy rains filled the lagoons and they overflowed into Driftmeyer Ditch. USEPA responded to this spill and pumped liquid off the lagoons. USEPA intends to remove and dispose all oil and sludge at the site and is currently studying this possibility.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Coulton Chemical Corp.	41 40'45" Not on Map	83 27'45"	Unknown 1400 Otter Creek Rd Oregon, OH 43616 Unknown	According to the OEPA preliminary assessment, this company recycles wastewater created at the Standard Oil Refinery. This wastewater has a high sulfur content, and when treated the by-product is sulfuric acid, which is then sold back to Standard Oil. The main concern is spillage when the acid is transferred from storage tanks to trucks. OEPA maintains the groundwater concerns are minimal, because of the nature of the waste and volume. This site has been given a low priority by the OEPA.	N/A	N/A
CSX Railyard	Not on Map	N/A	Unknown Bay Shore Rd Toledo, OH 43616 661-3014	Near the bay. Present status unknown.	N/A	N/A
Envirosafe AKA: Fondessy Enterprises, Inc.	Not on Map	N/A	Unknown 876 Otter Creek Rd Oregon, OH 43616 698-3500	Presently a licensed RCRA solid and hazardous waste disposal facility. Two water supply lines for the City of Toledo traverse the site. These lines deliver about 73 million gallons of water/day to the Collins Park treatment facility. Monitoring wells are in place to check soil and water quality near the pipes. One of the solid waste cells may interfere with the Millard Street expansion.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Gulf Oil Refinery (Chevron)	41 40'20" Not on Map	83 47'55"	Unknown Millard Ave and RR tracks Toledo, OH 43605 Unknown	This site is bordered by industry on the North, by residential neighborhoods on the South, by farmland on the East, and on the West by the Maumee River. From 1953-1981 this facility processed crude oil into gasoline, jet fuel, kerosene, heating and fuel oil, asphalt and other related products. The concern involves hazards from lead and caustic sludges, cooling water and other oily wastes found in a sludge pit area. The sludges contain aluminum hydroxide, soda ash, lime, fluorides, potassium hydroxide and spent caustics. RCRA interim status was denied in 1981, due to the closure of the site. When the facility was closed, two of the four holding ponds were covered. No inspections have been done at the site since closure. It has been recommended that the site be given medium priority because of the lack of information about how the site may have affected the farmland. The site contained 7 buildings which were demolished and removed from the site in July-August of 1994. The site is part of the Front Street Remediation project.	N/A	N/A
Heist Cleaning Service AKA: Colander (Closed)	41 40'18" Not on Map	83 27'28"	Unknown 3804 Cedar Point Rd Oregon, OH 43605 Unknown	This site had an oily seepage break through the surface in 1983. This seepage was detected again in 1985. No off site discharge has been reported. The site is now filled and clay-capped and is considered low priority because the possible risk to the water supply is low. The closest water source that could be affected is greater than three miles away.	6 acres	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Koppers AKA: Toledo Coke (Closed)	41 40'15" Not on Map	83 29'10"	Unknown 2563 Front St Toledo, OH 43605 Unknown	It was used for coking operations. About 195 tons of napthalene was produced every year and stored in a waste pile. The coal tar that was produced was reused in the coking process. In 1982 Koppers notified OEPA of its intent to continue to generate hazardous waste. However, the company also planned on using an approved hazardous waste disposal company if it became necessary. By 1986 USEPA and OEPA determined a significant amount of coal and coke was accumulating at the site and required Koppers to either apply for a RCRA Part A or close the 'waste pile'. In 1987, an inspection of the site was conducted and 72 areas of concern were identified. A wastewater sample collected indicated concentrations of phonols, ammoniated substances, and cyanides were present in levels exceeding the pretreatment standards under the Clean Water Act. It was also concluded that contaminants can enter the Maumee River and cause a health threat. There are no measures taken to prevent runoff of rainwater. Additional contaminants have been found at the site such as benzene, toluene, phenol, and naphthalene.	51 acres	84 years
Libbey-Owens-Ford PLTS 4 & 8	Not on Map	N/A	Unknown 1769 E Broadway Toledo, OH 43605	The site has an active NPDES permit. The concern at this site is Otter Creek runs under a lagoon where leachate has been detected. The leachate contains phtalates, dienoctyl phthalate, and other unknown chemicals. The plan is to drain the lagoon and reroute Otter Creek.	N/A	N/A
Matlack Trucking Co.	41 37'00" Not on Map	83 29'30"	Unknown 1728 Drouillard Rd Toledo, OH 43616 Unknown	This site is being investigated for solvent contaminated soil.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Millard Ave. Overpass	Not on Map	N/A	Unknown Millard Ave. W. of Duck Creek Oregon, OH 43616 Unknown	PAHs from coal tar found in soil 6-15 feet deep, which may be from waste material dumped from Coal Gas Reservoir formerly at York and Front Streets. This is the Site for the planned Millard Avenue expansion, which includes making an overpass over the railroad crossings. Extensive monitoring has been conducted: lindane, chlordane, mercury and PCB's were found in concentrations well below the regulatory limit in the Otter Creek Swamp Area. The Ohio Department of Transportation (ODOT) has planned the road improvement project and OEPA has reviewed their plans. The Director of OEPA must approve the project before work may begin. Illegal dumping has also occurred at the site (storage tanks and cars) and must be addressed in the clean-up plans. *Ground was broken 6/4/96 and the completion date has been set for 1998, as the environmental concerns come closer to settlement.	N/A	N/A
Norfolk & Western Railway	Not on Map	N/A	Unknown Ironville Yard Toledo, OH 43605 Unknown	Location of the site is unknown	50 acres	N/A
Old Peanut Hill Dump	Not on Map	N/A	Unknown Oak St near Akron, Oaklawn & Richford Streets Toledo, OH 43605 Unknown	Present status unknown	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Phillips Petroleum Property	41 40'40" Not on Map	83 28'50"	Unknown Front St & Millard Ave Toledo, OH 43605 Unknown	This plant manufactured carbon black. Four cooling ponds were used in the process, occupying about four acres. After the plant closed, the residue that accumulated in the ponds was left untreated and construction debris was dumped on the surface. In December of 1985, the US Coast Guard informed Phillips the site might be leaching an oily substance into the Maumee River. Remedial actions took place in 1986, and the contaminants were removed from the pond and filled with natural clay. The residues and sludges were taken to Evergreen Landfill. The remedial action appears to have alleviated any major problems at the site.	.04 acres	N/A
Standard Oil Co (OHIO) AKA: BP Oil	Not on Map	N/A	Unknown Lallendorf & Cedar Point Rd Oregon, OH 43616 Unknown	This site is in compliance with its NPDES permit.	10 acres	N/A
Toledo Edison Co Coke Oven Gas Line (removed)	41 37'50" Not on Map	83 32'08"	Unknown Front & Cherry St Toledo, OH 43605 Unknown	Part of the current Front Street remediation project.	N/A	N/A
Toledo Powdered Metal	41 37'50" Not on Map	83 29'50"	Unknown Cross St Toledo, OH Unknown	This site was a concern of the MRAP, and 2 site assessments, done in 1990 and 1994 by Bowser Morner, were reviewed. The findings of each assessment were that the site is not a contributing factor to the contamination of Otter Creek, and that there is no evidence of significant environmental contamination. The OEPA has acknowledged these findings, as they relate specifically to the Maumee Remedial Action Plan.	N/A	N/A
Union Oil Co Toledo Ref	41 40'54" Not on Map	83 27'15"	Unknown 1840 Otter Creek Rd Oregon, OH 43616 Unknown	The site operated as a petroleum products storage terminal and the concern is a diked area used to separate oil and water.	N/A	N/A

Table III-8B: Other Dump Sites Located in the District

Site Location	Latitude (d,m,s) & Map Reference	Longitude (d,m,s)	Land Owner Address	Description of Materials dumped at site	Approximate Size of Site (in acres)	Time Period Site has Existed
Champion Spark Plug	Not on Map	N/A	Unknown 900 Upton Ave Toledo, OH 43607 (419) 535-2567	This site contains underground storage tanks (USTs). No apparent health hazard exists.	N/A	N/A
Dunright Mobile	Not on Map	N/A	Unknown 1805 East Manhattan Toledo, OH 43608	Four gasoline USTs, one diesel UST and one used oil UST were removed form this site. No further action is planned.	N/A	N/A

H. Ash, Foundry Sand and Slag Disposal Sites

Only one ash disposal site was identified in the District during the reference year in **Table III-9**.

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

Site Location	Land Owner Mailing Address	Description of Materials Dumped at the Site	Approximate Size of Site (in acres)	Time Period Site Has Existed
Toledo Edison Bay Shore Station Dry Ash Disposal Facility 4701 Bay Shore Rd. Oregon, OH	Toledo Edison/ Toledo-Lucas County Port Auth./ Army Corps of Engineers 300 Madison Ave. Toledo, OH 43616 419-249-5000	Fly ash from coal powered plant	56 acres	35 years

I. Map of Facilities and Sites

Appendix E has a series of maps for all facilities and sites located within the District during the reference year.

J. Existing Collection Systems – Haulers

Table III-10 identifies all the solid waste and recycling haulers operating within the District during the reference year. The list of haulers was identified through the use of local phone books and internet searches conducted in 2009 and 2010. Surveys were sent to all the solid waste and recycling haulers in 2009 to collect all the required data for **Table III-10**. Follow-up phone calls were made in 2009 and 2010 to complete the data gaps. It should be noted that many of the haulers did not respond to either the surveys or multiple phone calls to gather data for this table.

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

Name of Hauling Company	Mailing Address Phone #	Description of Collection Routes	Type of Materials Collected	Tons Collected from the District	Name of Facility Used by Hauler
ABC Roll Off Services	670 Smith Rd. Temperance, MI 48182 419-474-4427	Lucas County	C & D Waste; Roll-off Services	1,400	Republic Vienna Junction
Action Disposal	2510 W. Temperance Rd. Temperance, MI 48182 734-847-7163	Washington Twp	Res. Waste	578	Republic Vienna Junction
Archbold Refuse Service (ARS), Inc.	200 Taylor Pkwy Archbold, OH 43567 800-823-6715	Twps of Richfield and Swanton	Res. Waste	N/A	Sunny Farms
Allied/Republic Waste	6749 Dixie Hwy Erie, MI 48133 800-234-3429	Cities of Maumee, Oregon, Sylvania, Toledo; Twps of Harding, Monclova, Providence, Spencer, Springfield, Swanton, Sylvania, Washington, Waterville, Whitehouse; Villages of Berkey, Holland, Waterville, Whitehouse	Res. Waste/Recycling; Comm. Waste/Recycling; Ind. Waste/Recycling; C & D Waste: Yard Waste Services	N/A	Hoffman Rd. Landfill, Republic Vienna Junction
City of Toledo	2411 Albion St Toledo, OH 43606 419- 936-2510	City of Toledo	Res. Waste/Recycling; Comm. Waste;	N/A	Hoffman Rd. Landfill, Lucas County Matzinger Rd MRF
Dependable Hauling & Cleaning	427 W Delaware Ave Toledo, OH 43610 419-241-1659	Lucas County	C & D Waste	N/A	Evergreen Landfill
Fondessy Enterprises, Inc.	2650 York Toledo, OH 43605 419- 693-5377	Lucas County	Res. Waste/Recycling; Comm. Waste/Recycling; Ind. Waste	N/A	Waste Management, Republic Vienna Junction
Haul Anything	3604 McGregor Toledo, OH 43623 419-474-4854	Lucas County	C & D Waste, Roll-off Services	N/A	Republic Vienna Junction

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

Name of Hauling Company	Mailing Address Phone #	Description of Collection Routes	Type of Materials Collected	Tons Collected from the District	Name of Facility Used by Hauler
Miller's Hauling Service	2105 Mulberry St. Toledo, OH 43608 419-693-5377	Lucas County	Res. Waste	N/A	Waste Management
Mike's Hauling & Demolition	2166 E. Broadway Northwood, OH 43619 419-666-1443	N/A	C & D Waste	N/A	Republic Vienna Junction, Waste Management
Modern Disposal, Inc.	907 Findlay St Perrysburg, OH 43551 419-874-2966	Lucas County	Comm. Waste	N/A	Evergreen Landfill
Ron's Hauling and Demolition	1236 Utah St. Perrysburg, OH 43551 419-691-3863	N/A	N/A	N/A	N/A
State Paper & Metal	1118 W Central Ave Toledo, OH 43610 419-243-5567	N/A	Res., Comm., and Ind. Recycling	N/A	N/A
Stevens Disposal & Recycling Service	670 Smith Rd Temperance, MI 48182 734-847-9625	N/A	Res. Waste	N/A	N/A
Suburban Sanitation, Inc.	8463 Angola Rd. Holland, OH 43528 419-865-8453	N/A	N/A	N/A	N/A
Toledo Recycling	5130 Creekside Ave Toledo, OH 43612 419-476-7107	N/A	N/A	N/A	N/A
Village of Holland	1245 Clarion Ave Holland, OH 43528 419-865-7104	Village of Holland	Res. Waste/Recycling; Comm. Recycling	N/A	N/A
Village of Ottawa Hills	2125 Richards Rd Toledo, OH 43606 419-536-1111	Village of Ottawa Hills	Res. Waste/Recycling	N/A	N/A

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

Name of Hauling Company	Mailing Address Phone #	Description of Collection Routes	Type of Materials Collected	Tons Collected from the District	Name of Facility Used by Hauler
Waste Management Toledo Hauling	6525 Wales Rd Northwood, OH 43619 800-343-6047	N/A	Res. Waste/Recycling; Comm. Waste/Recycling; Ind. Waste/Recycling; C & D Waste: Yard Waste Services	N/A	Waste Management Evergreen
A+ Building Maintenance and Home Repair, LLC	230 Vance Toledo, OH 419-478-1542	N/A	C & D Waste; Roll-off Services; Yard Waste	N/A	N/A
Republic Waste Services	6196 Hagman Rd Toledo, OH 43612 419-726-9465	N/A	N/A	N/A	N/A
Rick's Hauling Service	8613 Tamarack St Temperance, MI 48182 734-847-7903	N/A	N/A	N/A	N/A
J & S Sanitation	3133 W. Temperance Rd Temperance, MI 48182 734-847-0230	N/A	N/A	N/A	N/A
Stansley Industries, Inc	3793 Silica Rd Sylvania, OH 43560 419-841-6960	First Energy	Comm. & Ind. Wastes	40,000 tons Lime Sludge 200,000 tons of Ash	Carlton Farms
Advantage Hauling, LLC	2716 Vienna Rd Erie, OH 48133 734-848-4713	N/A	N/A	N/A	N/A
AAA Hauling	10669 Secor Rd Temperance, MI 48182 734-856-3133	N/A	N/A	N/A	N/A
Bluebox Dumpsters	PO Box 373 Maumee, OH 43537 419-893-4575	N/A	N/A	N/A	N/A
Trash Taxi	5908 Sunrise Circle N Sylvania, OH 43560 419-215-9496	N/A	N/A	N/A	N/A

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

Name of Hauling Company	Mailing Address Phone #	Description of Collection Routes	Type of Materials Collected	Tons Collected from the District	Name of Facility Used by Hauler
HAI Roll-off Dumpsters	6900 Freemont Pike Perrysburg, OH 43551 419-666-6600	N/A	N/A	N/A	N/A
Joe's Hauling and Dumpster	6145 Herst Rd. Toledo, OH 43613 419-475-2220	N/A	N/A	N/A	N/A
ABBA Hauling	26 W. Weber St. Toledo, OH 43608 419-241-2753	N/A	N/A	N/A	N/A
Competitive Hauling	255 Oakdale Ave. Toledo, OH 43605 419-466-2388	N/A	N/A	N/A	N/A
Waste Away Services	1821 Spencer St. Toledo, OH 43609 419-865-3200	N/A	N/A	N/A	N/A

Abbreviations:
N/A – Not Available

Sources:
The list of haulers and operators was generated from local phone books and internet searches conducted in 2009 and 2010.
Surveys were sent to all the solid waste and recycling haulers in 2009. Follow-up phone calls were made in 2009 and 2010 to complete the data gaps. It should be noted that many of the haulers did not respond to either the surveys or multiple phone calls to gather data for this table.

Section 4. Reference Year

The purpose of Section 4 is to provide estimates of population, waste generation and waste reduction for the residential, commercial, and industrial sectors during the 2008 reference year. Districts are required to explain the methods used to estimate waste generation by sector and all waste reduction methods that resulted in material being diverted from landfilling through source reduction, recycling and composting.

While source reduction occurs in all sectors, it continues to be difficult to measure. Examples of source reduction at the residential level includes buying products that have less packaging, using cloth napkins instead of paper, and leaving grass clippings on the ground rather than bagging them for disposal. Significant source reduction occurs at the commercial and industrial levels, but again is difficult to document. As part of the District's survey process, specific source reduction questions were asked to try to quantify the actions municipalities and businesses were taking to reduce their waste. Many did not answer these questions therefore making it challenging to identify and quantify any source reduction efforts.

The data presented in this section serves as the basis for the waste generation and recycling estimates presented in Section 5 for the planning period (2010-2030).

A. Population and Residential/Commercial Generation

The residential and commercial total waste generation was determined by applying a national average waste generation rate to the District's reference year population estimate.

The District's estimated population in 2008 was 440,256 as determined by the Ohio Department of Development (ODOD), Office of Policy Research and Strategic Planning. The majority of residents (3,484) in the Village of Swanton live in Fulton County leaving the remaining 167 residents in Lucas County according to the ODOD. This population adjustment is taken into account according to the ODOD. The per-capita waste generation rate of 4.50 pounds/person/day was taken from the US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2008. The District used the following equation to determine their estimated residential/commercial waste generation of 361,560 tons.

Sample Calculation:
Total District Residential/Commercial Waste Generation (TPY) = (Generation Rate x Population x 365 days/year)/2000 lbs/year

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

County Name	Population	Generation Rate (lbs/person/day)	Total District Res/Comm Waste Generation (TPY)
Lucas County	440,897	4.5	361,560

Sources:
Population: 2008 Population Estimate from Ohio Department of Development - Office of Policy, Research and Strategic Planning
Generation Rate: US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2008
Sample Calculation:
Total District Res/Comm Waste Generation (TPY) = (Generation Rate x Population x 365 days/year)/2000 lbs/year

B. Industrial Waste Generation

Districts are required to estimate the industrial waste generation for the reference year which provides a baseline for industrial waste projections in Section 5. Industrial solid wastes used in this Plan Update include all manufacturing process wastes and packaging materials used to ship items incorporated into the manufacturing process.

In 2002 for the last Plan Update, the District conducted an extensive industrial survey process which included surveying 858 industries in the manufacturing sector with the primary SIC codes between 20 and 39. The District decided for this Plan Update not to conduct an exclusive industrial survey to capture waste and recycling rates.

In order to capture some waste and recycling data from both the commercial and industrial sector, the District in 2009, surveyed the top 100 largest commercial and industrial employers in the District provided by the Toledo Regional Chamber of Commerce. The survey group received a letter from the District outlining the purpose of the survey and an online survey link to www.surveymonkey.com. Both the District and the University of Toledo Business Waste Reduction Assistance Program conducted follow-up phone calls to capture data for this section during 2009 and 2010. The District received nine industrial survey responses from the online survey and phone call follow-up process.

For the purpose of **Table IV-3**, the District employed the nine survey responses and the industrial waste generation data from Table JJ-2 in Appendix JJ of the Ohio Environmental Protection Agency Plan Format version 3.0.

The District used the Ohio Department of Job and Family Services: Ohio Labor Market Information - Employment and Wages by Industry Query to identify the number of industrial businesses operating and employees working during the reference year. Since the industrial waste generation data in Table JJ-2 in Appendix JJ is broken out by SIC code and the Ohio Labor Market Information has transitioned their labor market information from SIC to NAICS codes, generation rates were matched in **Table IV-3A**.

Table IV-3A: SIC vs. NAICS Codes and Industrial Waste Generation

SIC Code	NAICS Code	Ohio Industrial Waste Generation Rates (Table JJ-2) tons/employee
20	311	13.92
22	313 & 315	9.99
23	314 & 315	2.8
24	321 & 337	51.62
25	337	1.79
26	322	17.5
27	323	6.7
28	325	12.43
29	324	7.33
30	326	7.29
31	316	3.41
32	327	10.55
33	331	36.93
34	332	11.16
35	333 & 332	5.72
36	334 & 335	2.98
37	336	3.21
38	334 & 339	1.74
39	Misc.	4.62

Table IV-3: Industrial Waste Generation (Survey Respondents vs. Unreported)

NAICS Code	Sector Name	Survey Respondents				Amounts Based Upon Secondary Data (Unreported)				Total Industrial Waste Generated (Tons)
		# of Industries	# of Employees	Tons of Waste Generated	Generation Rate	# of Industries	# of Employees	Tons of Waste Generated	Generation Rate	
311	Food Manufacturing	2	490	6318.90	82.93	31	398	5540.16	89.52	11859.06
313	Textile Product Mills					11	52	519.48	64.24	519.48
321	Wood Product Manufacturing					12	155	8001.1	331.96	8001.10
337	Furniture and Related Product Manufacturing					29	234	418.86	11.51	418.86
325	Chemical Manufacturing	1	150	1899.39	81.43	25	1207	15003.01	79.94	16902.40
326	Plastics and Rubber Products Manufacturing	1	400	22015.00	353.94	22	209	1523.61	46.88	23538.61
327	Nonmetallic Mineral Product Manufacturing	2	2700	12490.80	29.75	37	539	5686.45	67.85	18177.25
331	Primary Metal Manufacturing					14	529	19535.97	237.49	19535.97
332	Fabricated Metal Product Manufacturing					117	2553	28491.48	71.77	28491.48
333	Machinery Manufacturing					79	1548	8854.56	36.78	8854.56
334[1]	Computer and Electronic Product Manufacturing					13	170	401.2	15.18	401.20
335	Electrical Equipment and Appliance Manufacturing					6	669	1993.62	19.16	1993.62
336	Transportation Equipment Manufacturing	3	1175	8.00	0.04	34	4849	15565.29	20.64	15573.29
339	Miscellaneous Manufacturing					53	545	948.3	11.19	948.30
	TOTALS									155,215.18

Notes:
[1] To make the calculation for NAICS code 334, the average generation rate was calculated between the SIC 36 and SIC 38 codes per Table IV-3A.

C. Exempt Waste

Exempt waste is defined as material excluded from the definition of "solid waste" in the Ohio Revised Code 3734.01 and includes slag, uncontaminated earth, non-toxic fly ash, spent non-toxic foundry sand, and materials from mining and construction/demolition operations. Quantities of exempt waste disposed in the reference year were based on 2008 Ohio Environmental Protection Agency Ohio Facility Data Report and phone calls with out-of-state landfill facilities. The District disposed of 38,086 tons of exempt waste. The District disposed of a "reported" 19,281 tons of construction/demolition debris which the District received fees from the Lucas County Health Department but was included into the exempt waste number in **Table IV-4**. Additionally, some construction/demolition debris was not reported as construction/demolition debris but was identified and reported as exempt waste at the landfill.

Table IV-4: Exempt Waste Generated in the District and Disposed in Publicly-Available Landfills

Type of Waste Stream	Generation Rate (lbs/person/day)	Total Exempt Waste Generation (TPY)
Exempt	.47	38,086
Sources: *Population:* 2008 Population Estimate from Ohio Department of Development - Office of Policy, Research and Strategic Planning *Exempt Waste:* 2008 Ohio Facility Data Report (OEPA), 2008 Lucas County Annual District Report, Follow-up phone calls with out of state facilities **Sample Calculation:** Exempt Generation Rate = Total Exempt Waste Generation (TPY) / Population x 2000 (lbs/year) / 365 (days/year)		

D. Total Waste Generation

Total waste generation was calculated by adding together the residential/commercial waste generation (Table **IV-1**), industrial generation (**Table IV-3**) and exempt waste generation (**Table IV-4**). Note that residential/commercial waste generation was based on US Environmental Protection Agency national generation averages, the industrial generation was based mainly on Ohio Environmental Protection Agency industrial waste generation averages and exempt waste quantities were based on Ohio Environmental Protection Agency landfill facility reports.

The resulting reference year generation is 554,861 tons, as presented in **Table IV-5**. Based on reference year population, each resident within Lucas County generated 6.91 pounds of waste each day during the reference year.

Table IV-5: Reference Year Total Waste Generation for the District

Type of Waste	Generation Rate (lbs/person/day)	Total Waste Generation (Tons/Year)
Residential/Commercial	4.50	361,560
Industrial	1.93	155,215
Exempt	.47	38,086
Total Waste Generation	6.91	554,861

Source:
Residential/Commercial Generation Rates and Total Waste Generation - Table IV-1
Industrial Generation Total Waste Generation - Table IV-3
Exempt Generation Rates and Total Waste Generation - Table IV-4

Sample Calculation:
Industrial Generation Rate = Total Industrial Waste Generation (TPY) / Population x 2000 (lbs/year) / 365 (days/year)

E. Reference Year Waste Reduction

In order to measure success towards the waste reduction goals, Districts must measure the amount of recycling, source reduction, and composting that occurred in each sector based upon existing waste reduction strategies. This section describes the methodology used to estimate waste reduction in both the residential/commercial and industrial sector during the reference year. This data allows the District to measure the success and effectiveness of its existing waste reduction programs and activities as well as serving as a guide for future activities. This data serves as a baseline for further progress towards the waste reduction goals during the planning period of this Plan Update.

Residential/Commercial Sector

Waste reduction, recycling and composting in the residential/commercial sector was determined through extensive surveys collected as part of the District's 2008 Annual District Report to the Ohio Environmental Protection Agency. This report was based on a series of surveys and facility inventories conducted in 2008 to capture relevant data.

In 2009, an additional survey was conducted to capture data from all municipalities, recycling facilities, recycling brokers and compost facilities that did not reply to the original 2008 Annual District Report survey as well as the top 100 largest commercial and industrial employers in the District. For the purpose of this section, only the surveys with commercial recycling data were added into **Table IV-6**.

Recycling processors and curbside recycling service providers were asked to report, by material type, the amount of Lucas County-generated material that was generated by residential and commercial generators. In order to eliminate double counting, each entity was asked to identify their end markets or end processors so that the District was able to track the handling of materials until they left the region or were recycled into new materials. Commercial businesses were additionally asked what materials they generated for recycling and which processor or recycling service provider they used to again minimize the double counting of materials in **Table IV-6**.

Lastly the District relied on several Ohio Environmental Protection Agency generated reports to capture data on material recovery facility (MRF) recycling, compost and scrap tire activities. All specific data sources are noted in **Table IV-6.**

Table IV-6: Reference Year Residential/Commercial Waste Reduction in the District

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		
		Lead-Acid Batteries	150	**Total Waste Received**	**Residual Landfilled**	**Net Waste Processed**
		Appliances	144	Incineration	Ash	Net. Inciner.
		Ferrous Metals	20,733	0	0	0
		Non-Ferrous Metals	13,241	Composting	Residuals	Net Compost
		Commingled Recycling	3,126	59,281	0	59,281
		Cardboard	17,746	Resource Recovery	Ash	Net Resource Recovery
		Mixed Paper	15,858	0	0	0
		Glass	169			
		Commingled Containers	2,377			
		Mixed Plastics	1,195			
		Plastic Wrap	1,200			
		Scrap Tires[1]	8,844			
		Used Oil	1,975			
		Household Hazardous Waste	27			
		Scrap Wood/Pallets	18			
		Electronics	105			
		Textiles	250			
		RECYCLING TOTAL	89,540			
		GRAND TOTAL (includes Compost)	**146,440**			

Notes:
[1] Used the 2009 scrap tire data provided by the Ohio EPA in their 2009 Draft Scrap Tire Data Report
Commingled Recycling is from single stream curbside and dumpster collections including mixed papers, HDPE & PETE plastics, glass bottles & jars, aluminum/tin/steel cans
Commingled Containers includes HDPE & PETE plastics, glass bottles & jars, aluminum/tin/steel cans
Conversion Factors - Yard Waste (3 cubic yards = 1 ton) conversion used if specific yard waste materials were not identified; Leaves (1 loose cubic yard = 225 pounds); Grass (1 loose cubic yard = 400 pounds); Tires (1 tire = 20 pounds); Oil (1 gallon = 7 pounds); Pallets (1 pallet = 40 pounds)

Sources:
2008 Lucas County Annual District Report
2008 Ohio EPA Ohio Material Resource Recovery Facilities Report
2008 Ohio EPA Compost Facility Report; 2008 Class III/IV Annual Report Facility Checklist
2009 Ohio EPA Draft Scrap Tire Data Report
2009 survey of municipalities, commercial businesses, recycling processors and buybacks that did not respond to the 2008 Lucas County Annual District Report

Existing Residential/Commercial Waste Reduction Activities and Programs

The following programs and activities were operational and integral to achieving waste reduction during the reference year.

Non-Subscription Curbside Recycling Programs

Non-subscription recycling means that all residents within a municipality have access to a curbside recycling program (typically limited to 1 to 4 units per building). In these programs, the individual municipal government is responsible for the development/implementation of the program while payment of the program is made directly by the residents or by the municipal government on behalf of the residents. In the reference year, 9 municipalities within the District had non-subscription curbside recycling programs and included the City of Maumee, City of Oregon, City of Toledo, City of Sylvania, Village of Holland, Village of Ottawa Hills, Village of Whitehouse, Village of Waterville and Township of Waterville. In most of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were collected.

The District currently requests all communities to enter their recycling information into the District's online data entry and management ReTRAC system each year for Annual District Report purposes. This process has not been overly successful for the District. In 2008, the District hosted a training seminar showing how to use the ReTRAC system. Unfortunately only one non-subscription municipality participated in the training. At this time, only one non-subscription municipality enters their data into the ReTRAC system. During the Annual District Reporting process, most data about the District's non-subscription curbside programs is gleaned from phone calls and paper surveys. In 2008, 8,274 tons of recyclable material was collected from seven of the nine reporting non-subscription programs.

Municipality	Type of Curbside	# of Households	2008 Total Tons
City of Maumee	Weekly	5,135	1,244
City of Oregon	Bi-Monthly	6,688	728
City of Sylvania	Weekly	6,290	1,343
City of Toledo	Bi-Monthly	98,237	4,200
Village of Holland	Weekly	606	N/A
Village of Ottawa Hills	Weekly	1,647	N/A
Village of Waterville	Weekly	3,249	335
Village of Whitehouse	Bi-Monthly	1,500	105
Township of Waterville	Bi-Monthly	611	200

Each municipality provides their own education and outreach for their curbside programs. The District hosts the list of county-wide communities providing recycling services as well as their contact information for residents to get more information about each of their individual programs. The District provides technical assistance and solid waste/recycling management expertise upon request to these communities. The District additionally provides access to recycling information via their website and phone as well as education and outreach materials as needed.

Subscription Curbside Recycling Programs

Subscription recycling means that residents request the recycling service from private haulers and pay for the service on an individual basis, typically as part of their trash collection service. A resident must choose to participate and pay for the recycling service. In the reference year, 12 municipalities within the District had subscription curbside recycling programs and included the Village of Berkey, Village of Harbor View, Township of Harding, Township of Jerusalem, Township of Monclova, Township of Providence, Township of Richfield, Township

of Spencer, Township of Springfield, Township of Swanton, Township of Sylvania, and Township of Washington. In most of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were available for collection upon resident request.

The District currently requests all communities to enter their recycling information into the District's online data entry and management ReTRAC system each year for Annual District Report purposes. This process has not been overly successful for the District. In 2008, the District hosted a training seminar showing how to use the ReTRAC system. Unfortunately, none of the subscription communities participated in this training. Gathering recycling volume data for this program is extremely challenging as there is no good way to evaluate how many residents are subscribing to recycling services. At this time, the District does not know how much recycling volume is coming from this program.

The District provides technical assistance and solid waste/recycling management expertise upon request to these communities. The District additionally provides access to recycling information via their website and phone as well as education and outreach materials as needed.

Program Strengths:

- Residents have the ability to participate in a curbside recycling program if they choose
- Curbside programs are the most efficient ways to handle and collect residential recycling volumes
- Programs are handled by each municipality and did not require direct District funds

Program Weaknesses:

- District has very little control/influence over the curbside programs
- The range of recyclable materials collected by each hauler varies due to different processors that are used to process recyclable materials within the District
- District has a challenging time promoting recycling as each municipality does not have an official recycling program
- The District does not have enough funding or resources to provide a standard level of municipal assistance to each community to help them transition to a non-subscription recycling program

District Drop-Off Recycling Program

The District has an extensive system of public, private and school drop-off recycling sites. During the reference year, the District operated, maintained and serviced 177 drop-off locations including 20 urban public, 10 rural public, 63 private (including multi-family) and 84 school drop-off collection sites. The urban and rural public drop-off sites contain 1 to 10 recycling dumpsters (depending on site volume) collecting three streams of materials commingled papers (newspapers, office paper, junk mail, magazines, phone books), cardboard (corrugated, dry food boxes) and commingled containers (aluminum, bi-metal cans, glass – clear, brown and green, #1 and #2 plastic bottles). The majority of private drop-off sites collect cardboard and mixed paper. Additionally the majority of the school drop-off sites collect cardboard and mixed paper, with a few collecting commingled containers. The District provides collection services 7 days a week with front load collection vehicles and seven collection staff members (six heavy equipment operators and one site maintenance assistant).

As part of the solid waste management planning process, the District went through and explicitly quantified how many drop-off locations were actually in operation through-out the District and correctly identified them as urban, rural, commercial and school sites. The number, status and location of these drop-off sites are different than what was originally listed/reported in the 2008 Annual District Report. Many of the school and commercial drop-off sites were not listed in the Annual District Report and several of the sites were re-identified as urban or rural depending on the municipality's population. The below sites are now correctly identified as urban and rural drop-off sites based on their population data and are used in Section 7 to determine the District's access goal.

Drop-off Location	Status	Drop-off Location	Status
Arrowhead Fire Station	Urban	Springfield Fire Station 3	Urban
Hoffman Landfill	Urban	Springfield Twp Hall	Urban
Kroger (Glendale)	Urban	Village of Waterville	Urban
Kroger (Jackman)	Urban	Village of Waterville	Urban
Kroger (King)	Urban	Wildwood Metro Park	Urban
Kroger (Monroe/Secor)	Urban	Jerusalem Township	Rural
Kroger (Springfield)	Urban	Oak Opening Metro Park	Rural
Kroger (Suder)	Urban	Providence Metro Park	Rural
Lucas County Fairgrounds	Urban	Providence Township	Rural
Maumee Bay State Park	Urban	Richfield Township	Rural
Monclova Township	Urban	Spencer Township	Rural
Pearson Metro Park	Urban	Swanton Township	Rural
Promenade Park	Urban	Village of Harbor View	Rural
Secor Metro Park	Urban	Village of Holland	Rural
Springfield Fire Station 2	Urban	Village of Ottawa Hills	Rural

During the reference year, 8,466 tons of commingled papers (including cardboard) and 2,374 tons of commingled containers were collected. Though it is not possible to track how much actual recycling tonnage is coming from each drop-off site, the District does track how many times each recycling drop-off/dumpster is serviced. The below table provides how many dumpsters were serviced from each drop-off site during 2008 (please note that all school drop-off site information is provided under the "School Recycling Program" description). Several drop-off sites have multiple dumpsters to be serviced.

		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
Arrowhead Fire Station Dussel Dr.	Urban	89	0
Hoffman Landfill	Urban	135	3
Kroger (Glendale)	Urban	3,164	1,080
Kroger (Jackman)	Urban	4,638	1,291
Kroger (King)	Urban	6,751	2,072
Kroger (Monroe/Secor)	Urban	4,560	1,187
Kroger (Springfield)	Urban	2,664	949
Kroger (Suder)	Urban	2,343	637
Lucas County Fairgrounds	Urban	258	27
Maumee Bay State Park	Urban	8	24
Monclova Township	Urban	3,002	1,018
Pearson Metro Park	Urban	1,909	416
Promenade Park	Urban	0	4
Secor Metro Park	Urban	772	328
Springfield Fire Station 2	Urban	4,878	134
Springfield Fire Station 3	Urban	1,496	716

		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
Springfield Twp Hall	Urban	994	235
Village of Waterville	Urban	1,820	497
Village of Waterville	Urban	113	20
Wildwood Metro Park	Urban	32	4
Jerusalem Township	Rural	721	383
Oak Opening Metro Park	Rural	6	0
Providence Metro Park	Rural	62	54
Providence Township	Rural	732	325
Richfield Township	Rural	405	197
Spencer Township	Rural	95	27
Swanton Township	Rural	1,795	529
Village of Harbor View	Rural	169	37
Village of Holland	Rural	312	155
Village of Ottawa Hills	Rural	203	551
Alltel	Commercial	0	2
American Canvas	Commercial	7	0
Andover Apartments	MultiFamily	99	13
Barnes & Noble	Commercial	12	0
Bavarian Sports Club	Commercial	0	4
Brondes Ford	Commercial	32	0
Budget Baths & Overhead Door	Commercial	201	0
City of Toledo	Commercial	41	0
CYO Complex	Commercial	1	8
Dunn Business Center	Commercial	32	0
Fallen Timbers	Commercial	34	1
Fassett Apartments	MultiFamily	94	32
Fifth Third Bank	Commercial	37	9
GCF Graphics	Commercial	1	0
General Motor	Commercial	0	1
Heather Hill Apartments	MultiFamily	103	6
House of Emmanuel	Commercial	38	11
JJ Aqua Lounge	Commercial	9	0
LC / Toledo Health Dept	Commercial	43	5
LC Economic Del / Tmacog	Commercial	24	0
LC Emergency 911 Bldg	Commercial	51	0
LC Family Court Building	Commercial	26	0
LC Juvenile Justice	Commercial	24	0
LC Road Engineers	Commercial	23	0
LC Sanitary Engineers	Commercial	55	0
LC Vehicle Maint. Garage	Commercial	27	0
LC Wastewater Treatment	Commercial	38	0
Lucas County Dog Warden	Commercial	40	1
Lucas County Facilities	Commercial	40	0

		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
Lucas County Garage	Commercial	50	2
Lucas County Source	Commercial	51	0
Maritime Plaza	Commercial	68	5
Michaelmas Manor	Multifamily	76	15
Moose Lodge	Commercial	58	54
Mud Hens	Commercial	62	2
National Guard	Commercial	137	17
Oak Shade Grove	Commercial	4	0
Oblate Residences	Multifamily	43	11
Office Furniture	Commercial	104	21
Ohio DOT	Commercial	13	2
Owens Corning	Commercial	95	31
Perstorp	Commercial	120	9
Ransom & Randolph	Commercial	47	4
Seagate Convention Center	Commercial	245	10
SFC Graphics	Commercial	5	0
St. Charles Child Dev	Commercial	4	15
St. Charles Hospital	Commercial	7	22
Sun Oil (Lindy Contractor)	Commercial	41	4
Sylvania Country Club	Commercial	0	11
Team Sports	Commercial	56	5
Toledo Botanical Gardens	Commercial	32	9
Toledo Correctional Facility	Commercial	185	147
Toledo Fire Dept	Commercial	1	0
Toledo Fire Dept Maint	Commercial	14	0
Toledo Firefighter Museum	Commercial	8	0
Toledo Sanitation Garage	Commercial	32	0
Toledo Water Department	Commercial	7	0
Toledo Zoo	Commercial	47	3
Waterville Sheet Metal	Commercial	22	3
William Fund Company	Commercial	1	4

At this time the District is not looking to expand their list of public drop-off collection sites. If a location with good public access is available, there is interest from the property owner and collection containers are available, then a new public drop-off site may be established. The District has dealt with commercial business and school drop-off recycling requests differently. In general when a commercial business calls the District requesting recycling services, the District points them in the direction of a private collection hauler. In the past, the District has set up recycling dumpsters at some commercial businesses. During this plan update, the District will be evaluating these collection sites and identifying better uses for these collection containers.

The District continually evaluates the location of drop-off sites (may change their location or total count periodically) and strives to make collection routes efficient. As part of the District's collection routes, staff evaluates the accessibility, contamination and security of their drop-off sites. If at any time a site has accessibility issues, suffers from extreme contamination or is vandalized frequently, the drop-off site is either moved or

dismantled entirely. The District additionally provides effective recycling information and outreach through publications, website and via phone to support their drop-off collection program.

Program Strengths:

- The District has built an abundant amount of resources, containers, staff and support to handle their current drop-off program
- The program provides a large recycling volume for the District to help achieve their waste reduction rate
- The drop-off program is a well established program in which residents are highly aware of drop-off locations
- Drop-offs are used to handle overflow from curbside recycling programs
- All County residents have the ability to participate in the drop-off program as the majority of municipalities (large and small) have a drop-off collection site

Program Weaknesses:

- Drop-off program is the most expensive program the District operates – hard to make program more cost efficient without reducing collection vehicles or staff members
- Program has a hard time handling abundant recycling volumes especially during holiday times with staff resources and overtime allocation
- Program is not the most efficient way to handle and collect residential recycling

Matzinger Road Facility

In 2008, the District purchased a Material Recovery Facility (MRF) located at 1011 Matzinger Road. The District spent much of 2008 upgrading and refurbishing the facility to process dual stream materials – commingled papers and commingled containers. In 2009 the District began processing commingled papers on a small scale with private operators. On January 18th 2010, the District entered into a contract with Fondessy Enterprises, Inc. to operate said facility, and to provide material recycling processing and marketing services associated with the collection of recycled materials from the District operated drop-off recycling program.

As the District moves into this plan update, the District will evaluate the potential of this MRF moving to a single stream regional facility.

Program Strengths:

- The District owns their own processing facility for all materials generated as part of their drop-off collection program
- The District controls through a private contract the material end markets and revenue share agreements/payments
- The District has a greater ability to expand the list of materials collected as part of their recycling program
- Ability to become a regional material recovery facility where all materials generated within Lucas County could be processed by the District – all residents would recycle same list of materials and District would have better access to county-wide recycling data

Program Weaknesses:

- The District will be paying off a yearly debt loan service during the entire plan update to cover the cost of the facility
- District does not have the staff or resources to operate the MRF themselves at this time

Business Recycling and Waste Reduction Assistance Program

The District provides information, technical assistance and no cost waste and energy assessments to County commercial and industrial businesses primarily through a partnership with the University of Toledo Business Waste Reduction Assistance Program. The service identifies environmentally friendly solutions and cost savings for local businesses through waste minimization and process efficiency solutions. The goals of the program are to (a) increase manufacturing competitiveness through reduced solid waste disposal costs, reduced energy costs and optimized use of raw materials, packaging and floor space; (b) improve corporate image as companies become more green; (c) reduce pollution through reduced energy usage and the application of clean and renewable energy sources; and (d) decreased reliance of landfills for disposal. University students provide both a long and short form waste and energy assessment to interested commercial/industrial entities. The number of waste and energy assessments completed is determined by the number of commercial/industrial requests as well as available student time. Additionally the program facilitates involvement in a database for the Working Council for Employee Involvement where corporate recycling efforts are shared to increase efforts to other businesses and sectors.

During the reference year, 14 business waste assessments were completed identifying 725 tons of material that could be diverted from the landfill with an annual cost savings of $200,800., One business energy assessment was completed identifying 300,000 kilowatt hours of energy that could be reduced with an annual cost savings of $26,500. The Program also worked with commercial and industrial entities as part of their involvement in the Working Council for Employee Involvement program.

Program Strengths:

- Technical assistance is provided to businesses to reduce their overall waste generation and energy usage
- Conducting free waste assessments for commercial businesses allows the District to explain the benefits of waste reduction and recycling opportunities and services
- Program provides beneficial “real-life” opportunities for University students to work with businesses on their waste reduction goals

Program Weaknesses:

- Program is limited by the number of students the program is able to hire
- Providing free waste assessments does not guarantee that the businesses will institute waste reduction and/or recycling practices or services
- District solely finances the entire cost of the program

Special Event Container Loan Program

The District in conjunction with Keep Toledo/Lucas County Beautiful (KT/LCB) has a container loan program for individuals and organizations where recycling containers can be loaned out for free for the collection of mixed recyclables at special events and festivals. Interested individuals and organizations can pick up the recycling container collection frames and plastic bags from the District office for use at their special event. Interested parties are asked to monitor the recycling containers during the special event to reduce trash contamination and take the collected recyclables to a District drop-off center, put into curbside collection recycling or call District for special handling procedures.

Program Strengths:

- Program provides recycling opportunities for a wide range of special events, festivals, community events and fairs
- Program has been successful within the community
- Actual collection units are provided to the District through KT/LCB free of charge

Program Weaknesses:

- District does not have the staff or resources to monitor the special event recycling to ensure the maximum amount of recycling occurs with the least amount of contamination

District Sustainability Program

In 2008, the County strived to put together a Sustainability Commission to oversee and promote sustainability within the County. The District helped support the development of this Commission by providing start-up and continued funding for this program. Both the District and Keep Toledo/Lucas County Beautiful (KT/LCB) helped provide structure and advice as this Commission was established. At this time, the District, KT/LCB and the University of Toledo Business Waste Reduction Assistance program are all part of the Toledo-Lucas County Sustainability Commission and participate regularly in their meetings. This Commission has a holistic model of sustainability which reflects the "triple bottom line" thinking. The Commission has three standing subgroups, including the Environmental Quality, Sustainable Energy, and Socioeconomic subcommittees. The Commission's work focuses on baseline reporting, energy efficiency, recycling, organics management, water quality, transportation, and biodiversity issues.

Most of 2008 was consumed with pulling together the Commission. Both the District and KT/LCB were active and participated in meetings during 2008 in helping this Commission come together with all of its partners. At this time, the District and KT/LCB are both helping the Commission with projects and programs as they relate to the solid waste and recycling field.

Program Strengths:

- The Commission helps the District in providing a broad view picture of sustainability within the County – whereas the District is often only focused on solid waste and recycling impacts
- The District is able to work and share synergies with others county-wide on environmentally focused sustainability projects and messages
- The Commission provides support and resources to help push solid waste and recycling focused initiatives
- The District provides funding to support a Commission that leverages additional program funding

Program Weaknesses:

- The District provides funding to support the Commission
- Since the sustainability is a generic topic, the Commission has had a hard time defining what the actual goals should be

Recycling and Waste Reduction Education and Outreach

The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) provides general assistance, educational materials and technical assistance in all areas of waste management, recycling, waste reduction, composting, yard waste management, market development, scrap tires, electronics, household hazardous waste as well as other solid waste issues. The District and KT/LCB publish an annual Recycler's List which outlines all materials which are recyclable in the County as well as their respective recycling locations. The Recycler's List also provides information about each community's curbside recycling program. The District creates and distributes flyers and publications promoting the District's drop-off sites, yard waste and household hazardous waste programs to libraries, communities, civic organizations and businesses on a requested basis. The District provides daily assistance to residents, communities and businesses through their phone number and website on waste reduction, recycling, reuse, composting, yard waste management, scrap tire, electronics, household hazardous waste and other miscellaneous solid waste issues. The District's website houses information on municipal assistance programs, school and community outreach efforts, business waste reduction program, solid waste plan

and all District sponsored programs (drop-off collection sites, household hazardous waste, scrap tire and electronics program and yard waste programs).

During the reference year, the District fielded numerous information requests via phone calls, emails and the website. 5,000 Recycler's Lists were published and distributed throughout the County.

Program Strengths:

- District provides a wide range of waste reduction and recycling information through a variety of mediums including website, print materials and phone
- Partnership with KT/LCB has provided a dedicated staff member to help with education and outreach programs
- Ability to partner with a wide range of organizations to conduct special events for recycling and special materials

Program Weaknesses:

- Uniform recycling information and education pieces are hard to produce as each community has different programs and procedures
- Additional staff and resources would allow the District to maximize their recycling efforts for a wider community effect

School Paper Recycling Program

Cost barriers have resulted in school recycling programs not able to use commercial recycling collection vendors for services. In response, the District focused on providing recycling access to schools county-wide as part of their 2005 Plan Update. The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) promotes school recycling efforts through a pilot recycling collection program that involves interior and exterior recycling assistance. KT/LCB works with school officials and students to set up a pilot recycling program for mixed paper and cardboard materials as well as commingled containers at specific locations. During the past plan update, the District purchased several recycling dumpsters to set up service at these locations. Schools interested in participating in the District's recycling program were asked their ability to do the following:

- ❖ Complete an application/request form
- ❖ Provide a dedicated set of volunteers to handle the movement of materials in the school
- ❖ Participate in a school-wide education and outreach program

After the District reviewed each school's interest form and the schools met all established criteria, KT/LCB helped outfit each classroom with a recycling bin where paper materials were collected and then taken to an outside collection dumpster provided by the District. KT/LCB helped provide the classroom recycling bins and wheeled collection carts through a grant received by KT/LCB. The District then collects the paper recycling as part of their collection service route. The program kicks off with a recycling rally school assembly where teachers, staff and students are shown how to participate in the paper recycling program. The goal of the program is to educate students about the environmental benefits of recycling, encourage students to get their families involved with recycling at home while establishing an environmental stewardship among students.

During the reference year, 84 schools participated in the School Paper Recycling Program. Though it is not possible to track how much actual recycling tonnage is coming from each school, the District does track how many times each school/dumpster is serviced. Since each collection dumpster is 8 cubic yards, the below table estimates how many cubic yards were pulled from each school during 2008.

	Paper/Fiber	Commingled Containers
2008 Service Frequency	# of Dumpsters Serviced	# of Dumpsters Serviced
Alliance Academy	3	0
Anthony Wayne Schools	39	20
Arbor Hills Junior High	19	0
Aurora Academy	12	1
Autism Society of N.W. Ohio	5	0
Bennett Venture Academy	7	0
Beverly Elementary	54	0
Blessed Sacrament Elem	13	0
Burroughs Elementary	12	0
Central Catholic HS	76	1
Christ the King Elementary	3	0
Clay High School	31	8
Coy Elementary	13	0
Crissey Elementary	4	0
Crossgates Elementary	8	0
DeVeaux Junior High	23	1
Dorr Elementary	4	0
Eisenhower Middle School	37	0
Elmhurst Elementary	46	0
Emmanuel Baptist	25	0
Englewood Peace Academy	46	0
Fassett Middle School	54	18
Fort Miami Elementary	2	0
Franciscan Academy	12	0
Fulton Elementary School	10	0
Gateway Middle School	12	0
GESU	3	0
Glendale-Feilbach Elem	43	1
Grove Patterson Academy	17	0
Hawkins Elementary	13	0
Highland Elementary	25	0
Hillview Elementary	38	0
Holland Elementary	0	0
Holloway Elementary	0	0
Jackman Elementary	3	0
Lagrange Elementary	9	0
Larchmont Elementary	2	0
Leverette Middle School	0	0
Lial School	38	0
Longfellow Elementary	19	0
Lourdes College	39	15
Maplewood Elementary	30	0

	Paper/Fiber	Commingled Containers
2008 Service Frequency	# of Dumpsters Serviced	# of Dumpsters Serviced
Maumee H.S.	7	0
Maumee Valley Cty Day	17	3
McCord Junior High	18	0
McKinley Elementary	35	0
Meadowvale Elementary	22	0
Monac Elementary	5	0
Northview High School	42	0
Ottawa Hills Elementary	73	47
Ottawa Hills High School	70	55
Our Lady of Lourdes	29	0
Our Lady of Perpetual Help	36	3
Regina Coeli Elementary	4	0
Reynolds Elem School	9	1
Robinson Middle School	27	0
Rogers High School	34	0
Sacred Heart Catholic	4	0
Scott H.S.	5	0
Shoreland Elementary	7	0
Southview H.S.	17	0
Springfield H.S.	14	0
Springfield Middle School	14	0
St. Joan of Arc	41	0
St. John the Baptist	42	0
St. John's H.S.	9	0
St. Joseph’s Elementary	13	0
St. Pius X School	19	1
Starr Elementary School	60	0
Stautzenberger College	13	3
Stewart Academy	4	0
Stranahan Elementary	15	0
Sylvan Elementary	11	0
Toledo Christian School	19	0
Toledo Islamic Academy	5	0
Toledo Technology Center	97	7
University of Toledo Rocket Stadium	40	5
Wayne Trail Elementary	12	0
Wernert Elementary	4	0
Whiteford Elementary	36	0
Whitmer High	73	3
Wildwood Environmental Acad	13	0
Wynn Elementary	15	0
Zion Lutheran Elementary	7	0

Each year KT/LCB staff sends a program renewal contract as well as program survey to each school. Schools are required to complete this renewal contract for continued participation in the District's program. The school recycling program has been very successful with the schools and overall the schools are satisfied with the District's and KT/LCB's services. Schools that begin this program continue to participate in the program year after year. At this time, the school recycling program is full, but as the District shifts drop-off program resources and equipment, more school recycling opportunities might become available.

Program Strengths:

- The partnership with KT/LCB has provided a dedicated education specialist to provide the school recycling education programs
- The District has the ability to provide classroom recycling services to thousands of school aged kids
- The District and KT/LCB educates thousands of school aged kids on waste reduction and recycling awareness – a message which extends to their family's curbside and drop-off recycling habits

Program Weaknesses:

- The District has limited funds to expand this program
- The list of schools requesting school recycling services from the District continues to grow
- Schools have very few funding mechanisms outside of the District's program to provide recycling services for their students, teachers and staff

School Education and Outreach Program

The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) promotes school education and outreach information and programs. KT/LCB provides schools within the District a list of comprehensive activities and informational resources for students, teachers and educators. All programs are designed for students from K-12, pre-school, youth groups and scout troops. Programs include recycling and waste reduction information and hands-on activities. KT/LCB hosts educational workshops for educators and teachers grades K-12. These workshops present information on the latest solid waste management ideas/techniques, recycling and waste reduction programs, litter prevention and additional salient environmental issues. All teachers and educators participating in the workshops are provided curricula and resources for use in their classroom. KT/LCB stocks and makes available a lending library which is home to a wide variety of environmental education books, videos, environmental education activities and informational brochures. The lending library is available to loan for classrooms, schools and communities.

KT/LCB has one education specialist dedicated to overseeing, promoting and conducting the school education and outreach programs. As part of the District's outreach efforts, schools receive a flyer about the District's education and outreach programs twice a year. All programs are scheduled by the school teachers and staff based on these outreach efforts. During the reference year, 82 school educational programs were conducted reaching 2,152 students and 122 teachers and 16 general outreach recycling education presentations were conducted reaching 19 youth and 262 adults.

Program Strengths:

- The District's program provides a strong waste reduction and recycling message reaching a wide range of students across the County
- KT/LCB has a through set of resources, curriculum and lending library materials for teachers to build/expand their lessons or use within their classroom
- KT/LCB provides a "ready-set" list of activities and presentations for use within the classroom

Program Weaknesses:

- Teachers are extremely busy with reaching Ohio state curriculum standards that many teachers do not have the time to have lessons or use materials on waste reduction and/or recycling

Household Hazardous Wastes, Electronics, Scrap Tires and Battery Program

The District provides all County residents with a permanent year-round drop-off site for disposing and recycling of specialty wastes including household hazardous wastes, scrap tires, electronics and batteries. The District contracts with a collection vendor (Heritage Environmental) for these services. The District accepts a long list of flammable, toxic, poisonous, corrosive and caustic household hazardous wastes by appointment and free of charge. The District also collects at the same site passenger, truck and recreational vehicle tires and a long list of electronics for recycling all on a user fee system. Municipalities can additionally drop-off their scrap tires and scrap electronics for a fee at the District collection site. As a cost saving measure, latex paint was removed from the household hazardous waste collection in 2007. The District publishes information about how to properly deal and dispose of this latex paint material.

During the reference year, 872 cars came to the household hazardous waste collection site dropping off 27.29 tons of household hazardous waste, 9,696 tires and 47.99 tons of electronics. Additionally during the reference year, the District held a one day computer collection event which collected 55.5 tons of computers and other scrap electronics. The District publishes information about their household hazardous waste, scrap tire and electronics program in their annual Recycler's List, website and flyers located throughout the County.

Program Strengths:

- The District's HHW program has provided a unique opportunity for county residents to drop-off their unwanted/expired HHW, electronics, scrap tires and batteries year round
- By charging residents a small fee, the District has been able to generate a small revenue to help offset the costs from the collection and disposal of scrap tires and waste electronics

Program Weaknesses:

- The HHW program costs the District a large amount of money each year to remove a small volume of toxic/hazardous material, requiring the District to evaluate this program in this plan update

Yard Waste Collection Program

During the reference year, the District had 10 class III/IV yard waste facilities including four municipally operated yard waste collection programs (City of Toledo, City of Sylvania, City of Maumee and City of Oregon) in operation. Sylvania Township, Village of Whitehouse, Village of Waterville and Village of Holland all had contracted curbside yard waste collection.

In addition to these facilities and programs, the District provides residents with a permanent year-round drop-off collection program at two locations within the District. All residents can dispose of their lawn and yard debris at no charge and with no appointment. All yard wastes from rental and commercial properties, haulers, landscape and lawn care companies are assessed a fee when materials are dropped off. Residents may drop-off branches (less than 6" in length), Christmas trees, shrubbery, wood chips, leaves, grass clippings and tree trunks (less than 10" in diameter). The yard waste facility is open 7 days a week April through October and 6 days a week with more limited hours November through March.

During the reference year, the District operated yard waste site serviced 80,242 cars collecting 32,784 tons of yard waste materials. The remainder of the yard waste facilities within the District collected 29,222 tons of yard waste

materials. The District publishes information about their yard waste program in their annual Recycler's List, website and flyers located throughout the County.

Program Strengths:

- The District's yard waste program has provided a unique opportunity for county residents to drop-off their unwanted yard waste year round
- The yard waste program has diverted a large amount of waste from the waste stream and significantly contributes to the District's recycling goals

Program Weaknesses:

- The yard waste program costs the District a large amount of money each year

Disaster Debris Management Plan

The Lucas County Emergency Management Agency has developed a Disaster Debris Management Plan that is intended to serve as a guidance document for use by Lucas County officials and the twenty-one subdivisions within the District. It provides information on policies and procedures for the removal and disposal of debris resulting from a major natural or man-made disaster. The Disaster Debris Management Plan is intended to be used to facilitate and coordinate the management of all debris related issues following a disaster. The guidance provided in this plan should also serve to provide an outline for local policies and procedures that could serve to mitigate post disaster conditions when potentially large debris fields will present threats to public health and safety and retard a community's ability to quickly return to pre-disaster conditions. The Lucas County Emergency Management Agency will activate the Emergency Operations Center at the direction of the Board of County Commissioners, the Lucas County Sheriff or upon the request of any county sub-division executive. The Emergency Operations Center will coordinate with local officials, County Departments and the State on emergency response and recovery planning and decisions.

Program Strengths:

- The District has a disaster debris management plan ready if a disaster does strike the county

Program Weaknesses:

- Since it is unknown when and if a disaster would strike the county, it is challenging to set aside a certain amount of money in the District's budget for this program strategy. At this time, the District has not budgeted any money for this program strategy

Municipal Assistance Program

The District supports each community's individual programs and recycling efforts by providing resources such as promotion and awareness programs, literature and advertising development, research, collection contract specifications and special event coordination and collection. The District is available and provides assistance to all communities within the County on a request basis as communities explore different ways to handle their waste and recycling materials. The District provides technical assistance and expertise with pilot pay-as-you-throw programs, bundled collection contracting (waste, recycling and/or yard waste), franchise opportunities and ordinance standardization as well as a wide range of recycling and waste reduction concepts and programs.

In 2008, only one community requested municipal assistance. The District developed and published 1,500 flyers promoting unlimited yard waste and brush collection within Jerusalem Township twice during 2008. The District also promoted the Ohio Department of Natural Resources (ODNR) grant availability to the District's local units of government.

Program Strengths:

- The District has a list of resources that are available to all the local units of government within the District
- The District has the ability to promote activities, events and programs that each municipality hosts
- The District has the ability to provide education and outreach materials to each municipality

Program Weaknesses:

- Not many local units of government request municipal or technical assistance services from the District
- The District does not have the staff or resources to solicit requests or provide a standard level to each municipality

Data Reporting Program

Accurate recycling and waste reduction data is essential to the District for their Annual District Report each year. This data provides quantitative measures that the District's programs not only important but is beneficial to achieving Goal #2. During the reference year, the District used an online data entry and management program called ReTRAC allowing municipalities, local recycling processors, landfills, compost facilities and commercial/industrial businesses to enter their recycling and waste reduction data. This system has provided some success, but additional efforts are needed to ensure more data is entered and is entered accurately.

Program Strengths:

- The District has tried several mechanisms to improve data collection and reporting methods for their Annual District Report
- The reporting program provides a wide range of reports that are helpful to the District

Program Weaknesses:

- Getting municipalities to use the data reporting program has been challenging – very few use the system to report their data
- The District spends a lot of time each year mailing surveys and making phone calls to get all needed data to complete the Annual District Report

Market Development Assistance

The District assists local businesses with the development of recycled products through "Market Development Grants" offered through the State of Ohio. These grants support projects for research and development of products utilizing recycled materials in their products. The District is available to help conceptualize a project and provide assistance in completing the State's grant application.

In 2008, the District was not involved with any grant projects under this program. In 2009, the District met with a private company to discuss a market development concept. The District then helped lead them to the Ohio Department of Natural Resources (ODNR) grant application and sponsored their grant request.

During the reference year, the District re-evaluated their market development assistance program. In the past the District provided a financial contribution or grant match to local businesses that successfully were awarded a market development grant. In 2008 the District decided not to provide a financial contribution or grant match to these successful local businesses awarded marketing development grants. The District continues to provide technical and grant writing assistance to local businesses interested in the market development grants.

Program Strengths:

- If a market development grant is secured by a local business then it is great achievement and opportunity for the County
- The District provides resources and expertise to businesses who might have never known about or applied for a state grant opportunity

Program Weaknesses:

- Unfortunately very few private companies or businesses apply for or submit grant applications for state grant opportunities
- During the past five years, state money has significantly dwindled so less is given out as part of their grant programs

Litter Collection Program

The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) provides an Adopt-A-Road/Street program for the County. Volunteer groups and organizations are invited to help remove litter and other debris from 2-mile sections of County roadways or City, Township and Village streets. The program goal is to raise public awareness and improve the appearance of County roadways. The program provides trash bags, safety vests and litter tongs to all groups during their clean-up times. During the reference year, 54 organizations participated in the Adopt-A-Road/Street program collecting waste and litter from County roadways.

Program Strengths:

- The partnership with KT/LCB has provided an excellent opportunity for litter pick-up to occur across the county by volunteers
- Roadways across the county are significantly cleaner because of the program

Program Weaknesses:

- Having additional staff and resources would allow a more dedicated effort to encourage more groups to participate in the litter collection program
- Litter collection activities are based on volunteer participation and donations for supplies, therefore are subject to change

Community Grant – Recycling Incentive Program

The District has made funds available to communities to implement new and support existing solid waste reduction and recycling programs that assist the District in meeting the Solid Waste Plan objectives and goals. Grant funds are awarded to communities, upon District approval, that meet the following District criteria and complete a grant application.

- Be a community that approved the 2005 District's Solid Waste Management Plan

- Be a community located within the boundaries of the District

- Be a community that has a recycling or waste reduction program or will start a recycling or waste reduction program within the year of the grant application. If the program is for multiple years, the applicant must state the time period being requested for funding. Funding will be provided on annual basis, but the applicant will not have to complete a grant application for each year, if requesting funding for and committing to multiple years.

- Be a community that has submitted an application which conforms to the purpose of the Community Grant Program as outlined in this grant packet.

All communities have an equal opportunity to apply for the grant funds as long as District criteria are met. Funds are awarded to communities to subsidize existing and proposed programs that are critical to meeting the achievement of Goal #1. Grant base allocation amounts are based on the applicant's estimated number of single-family households. Minimum grant award amount of $1,000 and up to the following amounts for each population category:

- Communities with households ≥ 100 – 3,000: up to $15,000.
- Communities with households ≥ 3,001 – 20,000: up to $35,000.
- Communities with households ≥ 20,001 – 150,000: up to $210,000. This category is eligible for the highest amount of grant funds due to the greatest potential impact on the District's Plan.

Grant monies are only available during budget surplus periods. During the reference year, $92,423 was requested from communities within the District for the Community Grant program. The District did not have enough money in their budget to fund all the requests, so a percentage of qualifying projects were funded totaling $56,426. The District funded the following projects.

- City of Sylvania – funded $16,125 for the purchase of equipment at their yard waste facility
- Village of Holland – funded $5,301 for the purchase of recycled content recycling bins and the printing of recycling flyers and Village newsletter
- Anthony Waste Youth Foundation (through the Board of County Commissioners) – funded $35,000 to help develop a baseball field at Blue Creek Recreation Area. The money was used to enhance the use of recycled content materials in the following (but limited to) list of items: asphalt parking lot, building and fencing equipment, containers for recycling, park benches and tables, playground equipment and other building structures.

In the past plan update, the District did not have a process where a detailed description on how funds were used by each community requesting grant funding in place. In this plan update the District is addressing this situation. All communities that receive grant funding will need to submit a grant report at the end of the fiscal year outlining a description of how the grant money was allocated, program goals, qualitative and quantitative data (including how many households participated and number tons of recyclables were diverted from the landfill) as part of the grant funded program. All grant monies are received by awarded communities on a reimbursement basis.

No community grant money has been distributed since 2008.

Program Strengths:

- The community grant program provides necessary assistance to help local communities within the District to help them provide their own waste reduction services
- The grant program helps promote the recycling message throughout the District
- The grant program helps communities close the recycling loop by "buying recycled" content materials

Program Weaknesses:

- The District does not have enough money to fund all community funding requests
- During tight budget times, this program is the first program to be cut

Super Drop-off Feasibility Study

In the last plan update, the District noted that it would evaluate the costs, benefits and feasibility of a Super Drop-off facility in which papers (newspaper, office paper, magazines, etc.) and containers (aluminum cans, plastic bottles, steel cans, etc.) as well as special items like appliances, electronic equipment and product waste, oil, polystyrene, yard waste, C&D materials and other specific items could be recycled at one facility. The District stated it would evaluate and start communications about potential locations and funding sources and complete a feasibility study to further explore this option.

Over the past five years the District has evaluated developing a super drop-off facility. During that time the District staff toured several super drop-off facilities to understand how others were handling a wide range of materials. At the beginning of the last plan update, the District began discussions with both Goodwill and Lott Industries to identify them as processing partners for the drop-off facility concept. Both industries went out on their own so the partnership with the District became not feasible. Other non-profits began filling the gaps - Goodwill and the Salvation Army collected textiles and electronics, Lott Industries began handling certain recyclable materials and other local non-profits starting collecting scrap materials for teachers. As the District enters this plan update, staff will continue to evaluate this strategy as a potential option at the Matzinger Road facility, but at this time it was decided to not have it as a waste reduction program strategy.

Scrap Tire Remediation Project

In the last plan update, the District noted it would promote the use of shredded scrap tires as an alternative surface and/or fill material. The District cited the example of the recycled tire track at Clay High School and recycled tire parking lot at the Recreation Center as model locations to promote recycled tire uses.

During the last plan update, the City of Toledo was looking at economic development projects for the abundant amount of scrap tires coming out of the City. The District promoted this strategy to help them in this endeavor. During the last plan update both the District and City received funding for two recycled tire asphalt paving projects – recycling pad at the Lucas County Recreation Center and a roadway access point for the household hazardous waste collection site. After both of these projects were complete, the City had a wide range of issues with the tire collection vendors and then tires started to become stockpiled. Both the District and City focused on getting a quality vendor to collect their scrap tires for recycling. Since that time, coupled with an efficient collection vendor and a decrease in economic development money, less emphasis was placed on these types of remediation projects. As the District enters this plan update, it was decided to not have it as a waste reduction program strategy.

District Home Page

In the last plan update the District noted it would continue to expand their website to include more public information about District programs, University of Toledo Business Waste Reduction Program, special events and general information on source reduction, recycling, reuse, composting, yard waste management, recycling market development and other solid waste issues. The District would continue to expand their current Recycling Locator page to include general local unit recycling, reuse and composting information, yard waste drop-off facilities along with the current list of County drop-off locations.

Over the past five years, the District has increased and decreased the content on their website as changes in the District have occurred. During 2008 and 2009 the County as a whole evaluated their web presence and redesigned their website county-wide. During this process the District's website address changes as well as the design, layout and content. The District's new website address is http://www.co.lucas.oh.us/index.aspx?NID=749. As part of this

transition the District lost the ability to use their Recycling Locator. The new website layout provides an easier way for residents and businesses to glean information allows for live news postings and provides the ability for individuals to get an electronic notification if something has been updated on the website. For the purpose of this plan update, information about the District's website has been moved into a new waste reduction strategy called "Recycling and Waste Reduction Education and Outreach".

Program Strengths:

- County's new website platform provides an easier mean for residents and businesses to find needed and desired information
- County provides technical support for the District website
- District staff member is the "Website Administrator" for the District's pages allowing the ability to update information quickly and easily

Program Weaknesses:

- The website and platform is dictated by County IT policy so District is unable to create and make certain changes to the site
- The new website address does not have an easy web address for residents (several dropdown menus are needed to access the Solid Waste Management District off the County homepage)

Multi-Family Drop-off Collection

In the last plan update the District noted it would continue to expand their multi-family recycling collection program. The District has continued to target these multi-family units with a three-stream system of corrugated cardboard, commingled fibers, and commingled containers. During the past plan update, the District serviced eight (8) multi-family units. The District had intended to contact at least 5 additional multi-family complexes each year to expand this program, but as the push for school recycling expanded containers and resources used for this program were diverted to the school recycling program.

For the purpose of this plan update, information about the District's multi-family drop-off collection program has been moved into the existing waste reduction strategy called "District Drop-off Recycling Program". Since these multi-family units are on the District's drop-off collection routes and all materials are commingled together, it makes sense to the District to describe all their "drop-off" services under one main category. The District still continues to service eight (8) multi-family sites even though the locations have changed over the past five (5) years. Multi-family complexes that have the following components are provided drop-off recycling services (as long as the District has containers for the site): (1) an individual within the complex to spearhead the recycling effort, (2) location within the parking lot that can be designated for recycling dumpsters, and (3) location where recycling dumpsters could be placed are assessable by the District's collection vehicles. If the site has a high level of contamination or vandalism, the District evaluates pulling the recycling dumpster service.

Though it is not possible to track how much actual recycling tonnage is coming from each drop-off site, the District does track how many times each recycling drop-off/dumpster is serviced. Since each collection dumpster is 8 cubic yards, the below table estimates how many cubic yards were pulled from each multi-family drop-off site during 2008.

		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
Andover Apartments	MultiFamily	99	13
Fassett Apartments	MultiFamily	94	32
Heather Hill Apartments	MultiFamily	103	6
Michaelmas Manor	Multifamily	76	15
Oblate Residences	Multifamily	43	11
University of Toledo - Main Campus	Multifamily	323	34
University of Toledo - Scott Park	Multifamily	625	1
University of Toledo Savage Hall	Multifamily	14	0

As the District re-evaluates their drop-off recycling program, there is a potential for recycling containers to be moved from current commercial business locations to multi-family unit complexes. Again the District will evaluate these potential locations as long as these sites meet the above stated criteria.

Program Strengths:

- Provides recycling service and education to residents that do not normally have access to a curbside recycling program
- The program hits an underserved District population with recycling services
- This program significantly contributes to the District's drop-off recycling volumes

Program Weaknesses:

- District does not have enough containers and/or resources to actively solicit multi-family complexes to join this program
- Hard to find a person within each of these complexes to spearhead efforts to contact the District and facilitate the recycling program set-up

Financial Incentives/PAYT

In the last plan update the District noted it would continue to contact each municipality each year regarding the benefits and strategies needed to convert the municipality to a pay-as-you-throw community with the goal of adding an additional two communities to the District's list of pay-as-you-throw communities. Unfortunately during the last plan update, the District did not focus strongly on soliciting these opportunities to the local units of government. The District offered assistance to the City of Toledo as they evaluated the RecycleBank recycling rewards system and PAYT opportunities in limiting waste collection by cart size. The District has found that many communities are resistant to PAYT programs as many residents don't feel that their waste volume should be limited and many "know someone" in the waste collection business. As for recycling reward programs, the City of Toledo felt the cost barrier was too high to overcome to institute the reward program.

During the reference year, the District had four (4) communities (City of Sylvania, City of Maumee, Village of Holland, and Village of Waterville) that provided some type of PAYT program either regulated through cart size or number of bags/containers that could be set-out at the curb.

District Telephone

In the last plan update the District noted it would provide assistance and information in response to daily telephone inquiries for waste reduction, recycling, reuse, composting, yard waste scrap tire, HHW programs and management. The update also stated that KT/LCB would monitor a 24-hour hotline designed to report illegal dumping. The District continues to maintain both a general phone line and hotline for reporting illegal dumping. During the reference year, District staff roughly estimated the percentage of calls related to the following topics:

- 50% of calls are the wrong number
- 50% of calls are recycling related
    - 50% of calls are questions related to the City of Toledo waste and recycling program
    - 25% of calls are questions about or to set-up an appointment for the HHW program as well as how to dispose of latex paint
    - 25% of calls are questions about where to recycle "hard to recycle" items that are not included in many curbside recycling programs

In an effort to be more responsive to the District's residents, the District has instituted the following approaches to provide more information regarding the above inquiries.

- District provides a phone tree to help direct residents to the right information when they call
- The new website provided a new opportunity to post a document of "Frequently Asked Questions"
- When District was short staffed they had an answering service answer all incoming calls (has since been discontinued)

For the purpose of this plan update, information about the District's telephone has been moved into a new waste reduction strategy called "Recycling and Waste Reduction Education and Outreach".

Program Strengths:

- Residents who call into the District have a "real" person to talk with and answer their specific questions
- Provides the District with some feedback on what types of questions/concerns county residents have

Program Weaknesses:

- If no one is available to answer the phone, then residents have to leave a voicemail

Commercial Recycling Enhancement

In the last plan update the District noted it would support and encourage commercial and industrial businesses to begin a corrugated cardboard (OCC), commingled bottles/cans (UBC) or newsprint (ONP) recycling collection program by providing education and service assistance to these businesses. The District had planned to contact at least 10-15 commercial and industrial businesses each year and provide the benefits and assistance needed to start a corrugated cardboard, commingled bottles/cans, or newsprint recycling program. In the last plan update, the District was providing commercial recycling service to nine (9) locations.

At the beginning of the current plan update, the District worked with a larger set of stores including Walmart, Meijer and The Anderson's to encourage recycling. Most of the larger companies had corporate contracts that did not allow them to participate in the District's program, but since that time all have recycling service for at least corrugated cardboard. Next the District began working with smaller businesses to encourage recycling practices. Businesses that were interested in having recycling services and contacted the District were provided services if

recycling containers were available. Over the past five years, the District has increased the number of commercial type sites receiving recycling service to include the following fifty-five (55) locations.
Though it is not possible to track how much actual recycling tonnage is coming from each drop-off site, the District does track how many times each recycling drop-off/dumpster is serviced. Since each collection dumpster is 8 cubic yards, the below table estimates how many cubic yards were pulled from each commercial drop-off site during 2008:

		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
Alltel	Commercial	0	2
American Canvas	Commercial	7	0
Barnes & Noble	Commercial	12	0
Bavarian Sports Club	Commercial	0	4
Brondes Ford	Commercial	32	0
Budget Baths & Overhead Door	Commercial	201	0
City of Toledo	Commercial	41	0
CYO Complex	Commercial	1	8
Dunn Business Center	Commercial	32	0
Fallen Timbers	Commercial	34	1
Fifth Third Bank	Commercial	37	9
GCF Graphics	Commercial	1	0
General Motor	Commercial	0	1
House of Emmanuel	Commercial	38	11
JJ Aqua Lounge	Commercial	9	0
LC / Toledo Health Dept	Commercial	43	5
LC Economic Del / Tmacog	Commercial	24	0
LC Emergency 911 Bldg	Commercial	51	0
LC Family Court Building	Commercial	26	0
LC Juvenile Justice	Commercial	24	0
LC Road Engineers	Commercial	23	0
LC Sanitary Engineers	Commercial	55	0
LC Vehicle Maint. Garage	Commercial	27	0
LC Wastewater Treatment	Commercial	38	0
Lucas County Dog Warden	Commercial	40	1
Lucas County Facilities	Commercial	40	0
Lucas County Garage	Commercial	50	2
Lucas County Source	Commercial	51	0
Maritime Plaza	Commercial	68	5
Moose Lodge	Commercial	58	54
Mud Hens	Commercial	62	2
National Guard	Commercial	137	17
Oak Shade Grove	Commercial	4	0
Office Furniture	Commercial	104	21
Ohio DOT	Commercial	13	2
Owens Corning	Commercial	95	31
Perstorp	Commercial	120	9
Ransom & Randolph	Commercial	47	4

Seagate Convention Center	Commercial	245	10
SFC Graphics	Commercial	5	0
		Paper/Fiber	Commingled Containers
2008 Service Frequency	Type of Drop-off	# of Dumpsters Serviced	# of Dumpsters Serviced
St. Charles Child Dev	Commercial	4	15
St. Charles Hospital	Commercial	7	22
Sun Oil (Lindy Contractor)	Commercial	41	4
Sylvania Country Club	Commercial		11
Team Sports	Commercial	56	5
Toledo Botanical Gardens	Commercial	32	9
Toledo Correctional Facility	Commercial	185	147
Toledo Fire Dept	Commercial	1	0
Toledo Fire Dept Maint	Commercial	14	0
Toledo Firefighter Museum	Commercial	8	0
Toledo Sanitation Garage	Commercial	32	0
Toledo Water Department	Commercial	7	0
Toledo Zoo	Commercial	47	3
Waterville Sheet Metal	Commercial	22	3
William Fund Company	Commercial	1	4

For the purpose of this plan update, information about the District's commercial recycling opportunities has been moved into the existing waste reduction strategies called "District Drop-off Recycling Program" and "Business Recycling and Waste Reduction Assistance Program***".*** The District will be evaluating the number and effectiveness of the current list of commercial recycling sites as the District heads into this planning cycle.

Program Strengths:

- Expanding and encouraging recycling within the commercial sector is extremely valuable as they create a large source of waste and potential large recycling volume
- Several of the commercial entities provide a large amount of recycling volume for the District

Program Weaknesses:

- Evaluate the role of the District in providing commercial recycling services
- Not all businesses participating in the District recycling program generate a lot of recycling volume

Materials Exchange

In the last plan update the District noted it would make available material exchanges, via its website, utilizing the Ohio Material Exchange. The District in conjunction with the University of Toledo Business Waste Reduction Program would interact and continually expand the Working Council on Employee Involvement's (WCEI) Recycling Subcommittee recycling database to promote reuse and recycling opportunities locally.

During the past plan update, the District continued to feature the Ohio Waste Network (Ohio waste material exchange website) to allow commercial and industrial businesses to exchange waste materials. Additionally, the District and University of Toledo Business Waste Reduction Program continued to work with the Working Council on Employee Involvement's (WCEI) Recycling Subcommittee. For the purpose of this plan update, information

about the District's material exchanges and involvement in the Working Council on Employee Involvement's (WCEI) Recycling Subcommittee has been moved into the existing waste reduction strategy called "Business Recycling and Waste Reduction Assistance Program".

Program Strengths:

- The Ohio Waste Network provides a great opportunity for county commercial and industrial businesses to exchange waste products instead of disposing them in the landfill
- Participation in the Working Council on Employee Involvement allows the District to work with some of the larger commercial and industrial businesses to assess their recycling concerns and needs

Program Weaknesses:

- Only a handful of commercial and industrial businesses participate in the Ohio Waste Network
- Over the past couple years the membership within the Working Council on Employee Involvement has struggled, so fewer businesses are participating in the Council

Source Reduction Award Program

In the last plan update the District noted it would pilot a source reduction and recycling award program targeted at commercial and industrial businesses to encourage waste reduction and recycling activities. This program would provide waste assessments, educational information, website and newsletter recognition, and award presentation to commercial and industrial businesses that enacted and reported recycling and waste reduction activities. During the last plan update some efforts were made to award businesses for their recycling efforts. As the District enters this plan update, it was decided to not have this program as a waste reduction program strategy.

Industrial Sector

Waste reduction and recycling in the industrial sector were also determined through extensive surveys collected as part of the District's 2008 Annual District Report to the Ohio Environmental Protection Agency. This report was based on a series of surveys and facility inventories conducted in 2008 to capture relevant data.

In 2009, an additional survey was conducted to capture data from all recycling facilities and recycling brokers that did not reply to the original 2008 Annual District Report survey as well as the top 100 largest commercial and industrial employers in the District. For the purpose of this section, only the surveys with industrial recycling data were added into **Table IV-7**.

Recycling processors and curbside recycling service providers were asked to report, by material type, the amount of Lucas County-generated material that was generated by industrial generators. In order to eliminate double counting, each entity was asked to identify their end markets or end processors so that the District was able to track the handling of materials until they left the region or were recycled into new materials. Industrial businesses were additionally asked what materials they generated for recycling and which processor or recycling service provider they used to again minimize the double counting of materials in **Table IV-7**.

Table IV-7: Reference Year Industrial Waste Reduction in the District

Type of Waste Source Reduced	Type of Waste Recycled	TPY	
	Dry Cell Batteries	1	**Total Waste Received**
	Ferrous Metals	219,858	Incineration
	Non-Ferrous Metals	4,248	0
	AL/Steel/Tin Cans & Drums	26	Composting
	Cardboard	3,275	3
	Mixed Papers	1,276	Resource Recovery
	Mixed Plastics	89	0
	HDPE #2 Plastics	17	
	LDPE #3 & PVC #4 Plastics & Resin	28	
	PPE #5 Plastics	31	
	#7 Other Plastics	20	
	Glass	3,245	
	Scrap Tires	20	
	Rubber	26	
	Scrap Wood/Pallets	2,051	
	Paint and Paint Powder	30	
	Active and Spent Carbon	47	
	Refractory Brick	514	
	Textiles	500	
	Hydro Tek Solid	29	
	Yard Waste	3	
	RECYCLING TOTAL	235,334	
	GRAND TOTAL (including compost)	**235,337**	

Notes:
Conversion Factors - Yard Waste (3 cubic yards = 1 ton); Tires (1 tire = 20 pounds); Pallets (1 pallet = 40 pounds); HDPE 5 Gallon Plast

Sources:
2008 Lucas County Annual District Report
2008 Ohio EPA Ohio Material Resource Recovery Facilities Report
2009 survey of industrial businesses, recycling processors and buybacks that did not respond to the 2008 Lucas County Annual Distri

Existing Industrial Waste Reduction Activities and Programs

The following programs and activities were operational and integral to achieving waste reduction during the reference year.

Business Recycling and Waste Reduction Assistance Program

The District provides information, technical assistance and no cost waste and energy assessments to County commercial and industrial businesses primarily through a partnership with the University of Toledo Business Waste Reduction Assistance Program. The service identifies environmentally friendly solutions and cost savings for local businesses through waste minimization and process efficiency solutions. The goals of the program are to (a) increase manufacturing competitiveness through reduced solid waste disposal costs, reduced energy costs and optimized use of raw materials, packaging and floor space; (b) improve corporate image as companies become more green; (c) reduce pollution through reduced energy usage and the application of clean and renewable energy sources; and (d) decreased reliance of landfills for disposal. University students provide both a long and short form waste and energy assessment to interested commercial/industrial entities. The number of waste and energy assessments completed is determined by the number of commercial/industrial requests as well as available student time. Additionally the program facilitates involvement in a database for the Working Council for Employee Involvement where corporate recycling efforts are shared to increase efforts to other businesses and sectors.

During the reference year, 14 business waste assessments were completed identifying 725 tons of material that could be diverted from the landfill with an annual cost savings of $200,800., One business energy assessment was completed identifying 300,000 kilowatt hours of energy that could be reduced with an annual cost savings of $26,500. The Program also worked with commercial and industrial entities as part of their involvement in the Working Council for Employee Involvement program.

Recycling and Waste Reduction Education and Outreach

The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) provides general assistance, educational materials and technical assistance in all areas of waste management, recycling, waste reduction, composting, yard waste management, market development, scrap tires, electronics, household hazardous waste as well as other solid waste issues. The District and KT/LCB publish an annual Recycler's List which outlines all materials which are recyclable in the County as well as their respective recycling locations. The Recycler's List also provides information about each community's curbside recycling program. The District creates and distributes flyers and publications promoting the District's drop-off sites, yard waste and household hazardous waste programs to libraries, communities, civic organizations and businesses on a requested basis. The District provides daily assistance to residents, communities and businesses through their phone number and website on waste reduction, recycling, reuse, composting, yard waste management, scrap tire, electronics, household hazardous waste and other miscellaneous solid waste issues. The District's website houses information on municipal assistance programs, school and community outreach efforts, business waste reduction program, solid waste plan and all District sponsored programs (drop-off collection sites, household hazardous waste, scrap tire and electronics program and yard waste programs).

During the reference year, the District fielded numerous information requests via phone calls, emails and the website. 5,000 Recycler's Lists were published and distributed throughout the County.

Municipal Assistance Program

The District supports each community's individual programs and recycling efforts by providing resources such as promotion and awareness programs, literature and advertising development, research, collection contract specifications and special event coordination and collection. The District is available and provides assistance to all communities within the County on a request basis as communities explore different ways to handle their waste and recycling materials. The District provides technical assistance and expertise with pilot pay-as-you-throw programs, bundled collection contracting (waste, recycling and/or yard waste), franchise opportunities and ordinance standardization as well as a wide range of recycling and waste reduction concepts and programs.

Data Reporting Program

Accurate recycling and waste reduction data is essential to the District for their Annual District Report each year. This data provides quantitative measures that the District's programs not only important but is beneficial to achieving Goal #2. During the reference year, the District used an online data entry and management program called ReTRAC allowing municipalities, local recycling processors, landfills, compost facilities and commercial/industrial businesses to enter their recycling and waste reduction data. This system has provided some success, but additional efforts are needed to ensure more data is entered and is entered accurately.

Market Development Assistance

The District assists local businesses with the development of recycled products through "Market Development Grants" offered through the State of Ohio. These grants support projects for research and development of products utilizing recycled materials in their products. The District is available to help conceptualize a project and provide assistance in completing the State's grant application.

In 2008, the District was not involved with any grant projects under this program. In 2009, the District met with a private company to discuss a market development concept. The District then helped lead them to the Ohio Department of Natural Resources (ODNR) grant application and sponsored their grant request.

During the reference year, the District re-evaluated their market development assistance program. In the past the District provided a financial contribution or grant match to local businesses that successfully were awarded a market development grant. In 2008 the District decided not to provide a financial contribution or grant match to these successful local businesses awarded marketing development grants. The District continues to provide technical and grant writing assistance to local businesses interested in the market development grants.

F. Total Waste Generation: Historical Trends

Table IV-8 summarizes historical waste generation trends for District waste since 2001, the reference year for the last solid waste Plan Update.

Table IV-8: Total Waste Generation Based Upon Disposal and Waste Reduction

	Management Method Used in TPY						
Year	Source Reduction & Recycling	Yard Waste Composting	YW Land Application	Incineration	MSW Composting	Landfill Disposal	Total Waste
2001	192,732	32,848	N/A	0	0	805,094	1,030,674
2002	195,382	25,541	N/A	0	0	763,580[1]	984,503
2003	326,189	64,704	N/A	0	0	663,629[1]	1,054,522
2004	322,241	68,347	N/A	0	0	606,378[1]	996,966
2005	406,473	56,427	N/A	0	0	586,931[1]	1,049,831
2006	341,324	52,396	N/A	0	0	575,190[1]	968,910
2007	322,661	38,437	N/A	0	0	533,160[1]	894,258
Reference Year 2008	322,492	59,284	N/A	0	0	685,059	1,066,836

Sources:
Data for source reduction & recycling and yard waste composting for years 2001 through 2007 provided by Lucas County Annual District Reports.
Landfill disposal data for years 2001 through 2007 based on OEPA Facility Data Reports and Lucas County Annual District Reports for out-of-state data
Reference year data - Source Reduction & Recycling (Tables IV-6 and Table IV-7), YW Composting (Table III-6), Landfill Disposal (Table III-1)

Notes:
[1] Landfill data from 2002 through 2007 might not include all wastes disposed during that calendar year. The District was able to get accurate data for all In-District and Out-of-District facilities from the OEPA Facility Data Reports, but the only data available for Out-of-State facilities includes solid wastes for which the District receives fees. There is no volume data on exempt or any other non-fee generating wastes.

Sample Calculation:
Total Waste = Source Reduction/Recycling + YW Composting + YW Land Application + MSW Composting + Landfill Disposal

G. Reconciliation of Waste Generation

Comparing total waste generation as presented in **Table IV-5** to **Table IV-8**, it is clear that large discrepancies exist. This is consistent with prior District plans which found that the **Table IV-5** calculations that are based on state and national average generation rates per capita and per employee do not accurately reflect waste generation conditions in Lucas County.

As in the past, actual disposal and survey based waste reduction data is the most accurate method for calculating the current and projected waste generation for the District. Surveying techniques continue to improve in accuracy and as a result, significantly greater waste reduction activity has been discovered and is now included in the calculations.

The following tables document the actual waste generation based on disposal plus waste reduction for the residential/commercial sector (**Table IV-8A**) and the industrial sector (**Table IV-8B**).

Table IV-8A: Residential/Commercial Waste Generation Based Upon Disposal Plus Waste Reduction

Stream	Tons Per Year	Data Source
Res/Comm Recycled	146,440	Table IV-6
Res/Comm Disposed	564,159	Table III - 1 & OEPA Facility Report
Total Generation	710,599	

Table IV-8B: Industrial Waste Generation Based Upon Disposal Plus Waste Reduction

Stream	Tons Per Year	Data Source
Industrial Recycled	235,337	Table IV-7
Industrial Disposed	82,934	Table III - 1 & OEPA Facility Report
Total Generation	318,271	

Based on these calculations for total generation, the adjusted reference year total waste generation has been calculated as shown in **Table IV-9**.

Table IV-9: Adjusted Reference Year Total Waste Generation in the District

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	8.84	710,599
Industrial	3.96	318,271
Exempt	.47	38,086
Total Waste Generation	13.28	1,066,956

H. Waste Composition

Residential/Commercial Sector

The composition of the residential/commercial waste stream was determined by applying national waste composition percentages as published in the US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2008 to the total waste generated by the residential/commercial sector. This waste composition data is expected to show an overall picture of the waste stream composition, not specifically what the composition is of Lucas County waste. The resulting residential/commercial waste composition is estimated in **Table IV-10**.

Table IV-10: Estimated Residential/Commercial District Waste Stream Composition During Reference Year

Waste Stream Type	Percent of Total Waste Composition by Weight (National Average EPA)	District Estimated Tons
Durable Goods		
Steel	5.3%	37,379
Aluminum	0.5%	3,729
Other Non-Ferrous Metals	0.7%	5,010
Glass	0.8%	5,978
Plastics	4.2%	29,949
Rubber & Leather	2.5%	18,049
Wood	2.3%	16,170
Textiles	1.3%	9,537
Other Materials	0.6%	4,213
Non-Durable Goods	0.0%	-
Paper & Paperboard	15.7%	111,368
Plastics	2.6%	18,561
Rubber & Leather	0.4%	2,961
Textiles	3.5%	24,995
Other Materials	1.3%	9,252
Containers & Packaging	0.0%	-
Steel	1.0%	7,259
Aluminum	0.8%	5,352
Glass	4.0%	28,611
Paper & Paperboard	15.3%	109,005
Plastics	5.2%	37,037
Wood	4.3%	30,490
Other Materials	0.1%	769
Other Wastes	0.0%	-
Food	12.7%	90,501
Yard Trimmings	13.2%	93,661
Misc. Inorganic Wastes	1.5%	10,761
TOTAL	100.0%	710,599

Source:
Waste Stream % Composition - US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2008
Total District Residential/Commercial Generated (Table IV-8A)

Sample Calculation:
Tons of District Res/Comm Waste (by each category) = District Total Res/Comm Waste Generated x Waste Composition % (by each category)

Industrial Waste Sector

The composition of the industrial waste stream was determined by applying the State of Ohio industrial waste composition rates as published in the Ohio Environmental Protection Agency Plan Format version 3.0, Appendix JJ, Table JJ-3 to the total waste generated by the industrial sector. Just like the residential/commercial waste composition data, these numbers are expected to show an overall picture of the waste stream composition. Table JJ data reflects averages for the entire State of Ohio and it can be expected that individual counties and even individual businesses could have a wide variation of waste generation due to the specialty of each industry. The resulting industrial waste composition is estimated in **Table IV-11**.

Table IV-11: Estimated Industrial Waste Composition for the Reference Year in the District

Waste Stream Type	% of Total Waste Stream by Weight	District Estimated Tons
Aluminum	16.14%	51,373
Ash	5.84%	18,573
Bark	4.57%	14,540
Batteries	0.00%	0
Cardboard	6.54%	20,821
Concrete	0.60%	1,908
Dirty Powder	0.00%	12
Drums	0.00%	0
Dust Collector Fines	0.13%	404
Fabric/Textiles	0.28%	882
Food Wastes	4.87%	15,503
Glass	0.81%	2,574
Ink	0.00%	0
Litho/Photo Film	0.00%	0
Lubricants	0.00%	0
Metal Dust	0.00%	0
Metal (Ferrous)	13.94%	44,372
Metal (Non-Ferrous)	0.83%	2,632
Mixed Waste	4.73%	15,069
Non-Haz Chemicals	0.27%	858
Non-Specified	4.69%	14,911
Oil	0.13%	419
Paper (Office)	10.95%	34,866
Paper (Misc)	2.74%	8,707
Paper (Newsprint)	0.02%	68
Plaster	0.04%	115
Plastics	2.11%	6,730
Refractories	0.03%	84
Rubber	1.12%	3,573
Sawdust	4.80%	15,293
Silica/Alumina	0.07%	229
Slag	0.68%	2,180
Sludge	7.33%	23,330
Stone/Clay/Sand	7.76%	24,697

Table IV-11: Estimated Industrial Waste Composition for the Reference Year in the District

Waste Stream Type	% of Total Waste Stream	District Estimated Tons
Wood	4.13%	13,133
Yard Wastes	0.11%	355
TOTAL	100%	318,271

Source:
Waste Stream % Composition Calculated from OEPA 3.0 Plan Format - Appendix JJ, Table JJ-3
Total tons generated for each SIC code were added together and divided into the total overall waste generated for all SIC codes
Total District Industrial Generated (Table IV-8B)

Sample Calculation:
Tons of District Industrial Waste (by each category) = District Total Industrial Waste Generated x Waste Composition % (by each category)

Section 5. Projections and Strategies

This section of the Lucas County Solid Waste Management District Plan Update contains projections for each year of the planning period for population, waste generation and waste reduction. This section also describes proposed strategies to be used by the District to achieve projected waste reduction rates and goals.

A. Planning Period

Ohio law requires solid waste management plans to develop projections for population, waste generation and waste reduction. In accordance with Ohio law, the planning period for this Plan Update is January 1, 2010 through December 31, 2030.

B. Population Projections

Lucas County population projections were available during five year intervals including the years of 2010, 2015, 2020, 2025 and 2030 from the Ohio Department of Development; Office of Policy, Research and Strategic Planning. The Ohio Department of Development last population estimate was generated in 2008 where the County's population was 440,256. To obtain a reference year population estimate and project the population during intermediate years over the planning period, the rate of change between the projected years was determined and applied to each of the years between 2008 through 2010, 2010 through 2015, 2015 through 2020, 2020 through 2025 and 2025 through 2030. **Table V-1** provides sample calculations and the intermediate population increase or decrease used between Ohio Department of Development projections.

Sample Calculation:
Year 2011 Population Estimate = Year 2010 Population $\pm$ 2010-2015 Incremental Year Change

During the reference year, it was estimated that 440,256 residents lived within Lucas County.

Table V-1: District Population Projections

Year	County Population	Adjustments to Population	Total District Population
Reference (2008)	440,256	-	440,256
2009	442,563	-	442,563
2010	444,870	-	444,870
2011	443,770	-	443,770
2012	442,670	-	442,670
2013	441,570	-	441,570
2014	440,470	-	440,470
2015	439,370	-	439,370
2016	438,426	-	438,426
2017	437,482	-	437,482
2018	436,538	-	436,538
2019	435,594	-	435,594
2020	434,650	-	434,650
2021	433,092	-	433,092
2022	431,534	-	431,534
2023	429,976	-	429,976
2024	428,418	-	428,418
2025	426,860	-	426,860
2026	425,062	-	425,062
2027	423,264	-	423,264
2028	421,466	-	421,466
2029	419,668	-	419,668
2030	417,870	-	417,870

Source:
Population estimates from Ohio Department of Development; Office of Policy, Research and Strategic Planning (years 2010, 2015, 2020, 2025, 2030). Straight linear interpolation for intervening years.

Assumptions:
The majority of residents (3,484) in the Village of Swanton live in Fulton County leaving the remaining 167 residents in Lucas County according to the ODOD. This population adjustment is taken into account according to the ODOD estimates.

Sample Calculations:

- 2008-2010 Incremental Year Change = (Projected 2010 Population - Projected 2008 Population) /No. of Years (2) = 2,307
- 2010-2015 Incremental Year Change = (Projected 2015 Population - Projected 2010 Population) /No. of Years (5) = -1,100
- 2015-2020 Incremental Year Change = (Projected 2020 Population - Projected 2015 Population) /No. of Years (5) = -944
- 2020-2025 Incremental Year Change = (Projected 2025 Population - Projected 2020 Population) /No. of Years (5) = -1,558
- 2025-2030 Incremental Year Change = (Projected 2030 Population - Projected 2025 Population) /No. of Years (5) = -1,798

C. Waste Generation Projections

Residential/Commercial Sector

Overall during 2008, 2009 and 2010, the District has witnessed lower waste disposal numbers but an increase in recycling activities – both of which can be attributed to many factors.

The impact of the economic downturn our country has faced over the past years has taken its toll even on the amount of waste that has been disposed. On the residential side, as researchers have noted, consumers buy less in slow economic periods as shown by the declining sales in both the manufacturer and retailer sectors. As people buy less goods, less packaging and waste materials are produced at the home and therefore placed out in the trash. Residential behaviors also change in an effort to save money – less paper towels, paper plates, and disposal items are used and replaced with durable ones, newspaper subscriptions are replaced with free or online subscriptions and "to-go" and fast food packaging is reduced as more meals are cooked at home. In the commercial sector, the economic downturn significantly affects the amount of waste produced. Less demand for consumer products and services creates much less waste. Additionally many businesses have consolidated operations, closed stores or gone out of business entirely again translating into less commercial waste generated.

In addition to the decrease of overall waste disposal, the District has seen an increase in residential and commercial recycling and waste reduction activities. As part of the District's residential/commercial survey conducted in 2009/2010 and in addition with the 2008 Lucas County Annual District Report, the District identified more recycling volume than ever before in the history of the District's data collection efforts. As well, more businesses than ever before were reporting their recycling volumes.

Some of the increase in recycling volumes can be attributed to economic need at both the household and commercial establishment where the basic economic driver of recycling revenue has increased recovery, especially in high value materials like metal, where recycling rates have skyrocketed. Additionally, part of this can also be attributed to an emerging focus across the country that has turned consumer and business attention to being green, zero waste and sustainability. Consumers are scanning for specific labels, seeking outlets to be green and looking for products that reduce their impact on the planet. Businesses are being rewarded and recognized for their sustainable and green actions. Recycling and waste reduction is becoming much more mainstream and assumed to be part of most communities and business corporate models.

Economic recovery will result in a rebound in total waste generation but not to historical levels. Already in 2011, unemployment for Ohio has declined below 10% and auto sales, an important factor in the Northwest Ohio economy are rebounding with private sector economists forecasting a 2 million vehicle increase from the last quarter of 2010 to the last of 2011.

The impact is expected to be felt in waste generation for the District late in 2011 when the declines in waste generation will bottom out, still leaving a net reduction in waste generation per capital for 2011 of 2.2% from the prior year, with a move upward in 2012 of 2% in 2012 and 2% in 2013 before leveling out.

Table V-2 shows estimated residential/commercial waste generation for the planning period. Since 2008 and 2009 does not fairly represent average waste generation because of the economic downturn, **Table V-2** calculates a phased in partial recovery in waste generation that would track a long economic recovery period as described above. During this transition period per capita recycling levels are assumed to match the historic high levels documented in 2008.

The residential/commercial generation rate for the reference year was determined to be 8.84 pounds per capita per day based on actual recycling and disposal estimates based on **Table IV-9**.

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

Year	District Population	Per Capita Generation Rate (lbs/person/day)	Total Residential/Commercial Generation (TPY)
Reference (2008)	440,256	8.84	710,599
2010	444,870	8.49	688,968
2011	443,770	8.34	675,392
2012	442,670	8.40	678,983
2013	441,570	8.54	687,904
2014	440,470	8.67	696,984
2015	439,370	8.67	695,243
2016	438,426	8.67	693,750
2017	437,482	8.67	692,256
2018	436,538	8.67	690,762
2019	435,594	8.67	689,268
2020	434,650	8.67	687,775
2021	433,092	8.67	685,309
2022	431,534	8.67	682,844
2023	429,976	8.67	680,379
2024	428,418	8.67	677,913
2025	426,860	8.67	675,448
2026	425,062	8.67	672,603
2027	423,264	8.67	669,758
2028	421,466	8.67	666,913
2029	419,668	8.67	664,068
2030	417,870	8.67	661,223

Sample Calculation:
Total Res/Com Generation = (District Population x Generation Rate x 365 days per year) / 2000 lbs per ton

Sources:
District Population: Data from Table V-1
Reference Year Generation Rate: Based on actual reported data in Table IV-9
Per Capita Disposed Rate: Based on actual data for the period from 2008 to 2010, followed by 2.2 % decline in 2011, a 1% gain in 2012 and a 2% gain in 2013 reflecting modest economic recovery before leveling off.
Per Capita Generated Rate: Above changes in per capita disposed result in per capita generation to increase .75% in 2012 and 1.5% in 2013, to account for a modest economic recovery.

Industrial Sector

The industrial waste generation for the reference year was estimated at 319,072 tons per year, based on reported and estimated recycling activity and waste disposal reports from the Ohio Environment Protection Agency.

Overall the industrial waste generation is projected to drop during the planning period from historic highs prior to 2008 for many reasons.

- The District has documented lower waste disposal tonnage widely attributed to the economic downturn that has decreased industrial production and employment, driven by decreased demand for consumer products, aggregation of manufacturing operations, loss of jobs to overseas suppliers, and closure of some businesses as well.
- A decline in overall employment in the manufacturing sector has been projected by the Ohio Department of Job and Family Services, Ohio Labor Market with a projection of an overall 1.63% decrease in labor in the manufacturing sector as a whole from 2010 to 2016. The Ohio Labor Market does not have additional projections after 2016, but it is assumed that the industrial sector employment will continue to decrease over the remaining planning period as the County's population decreases.
- The District has documented an increase in recycling and waste reduction activities, supported by the District's partnership with the University of Toledo business waste reduction program, continuing the well established track record of reuse and recycling, boosted by increased economic necessity that is driving cost reductions and by stronger industrial focus on zero waste "green" sustainable operations.

Table V-3 is built on the number of employees in each NAICS code from **Table IV-3**. Employee projections for years 2010 through 2016 are based on reference year data and then decreased by the annual rate of 1.63% per the Ohio Labor Market. Employee projections for 2017 through 2030 are based on annual rates of District population decrease from **Table V-1**.

The estimated waste generation from each NAICS code for the reference year is taken from **Table IV-3**. However, this total estimated waste generation does not match actual waste generation for the reference year shown in **Table IV-8B**. Since the District did not conduct an industrial survey and Table IV-3 waste generation rates is largely based on industrial waste generation data from Table JJ-2 in Appendix JJ of the Ohio Environmental Protection Agency Plan Format version 3.0, the District used an adjustment factor to better match waste generation in Table **V-3** with data represented in Table **IV-8B**. The below adjustment factor was applied to the waste generation total for each sector.

Sample Calculation –
Waste Generation Adjustment Factor = [Total Waste Generation from Table IV-8B] / [Total Waste Generation from Table IV-3]

The waste generation totals were divided by the number of employees in each sector to arrive at a sector specific generation rate. This generation rate was then applied to the above described employment projections to arrive at the total waste generation projections for each sector presented in **Table V-3**.

Table V-3: Projected Industrial Waste Generation

NAICS Category	Year											
	Reference (2008)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
311	24,317	23,531	23,147	22,770	22,399	22,034	21,675	21,321	21,274	21,228	21,181	21,134
313	1,065	1,031	1,014	997	981	965	949	934	932	930	928	926
321	16,406	15,876	15,617	15,363	15,112	14,866	14,623	14,385	14,353	14,322	14,290	14,259
337	859	831	818	804	791	778	766	753	751	750	748	746
325	34,659	33,538	32,991	32,453	31,925	31,404	30,892	30,389	30,322	30,255	30,189	30,122
326	48,266	46,706	45,944	45,195	44,459	43,734	43,021	42,320	42,227	42,134	42,041	41,949
327	37,273	36,068	35,480	34,901	34,332	33,773	33,222	32,681	32,609	32,537	32,466	32,394
331	40,059	38,763	38,132	37,510	36,899	36,297	35,706	35,124	35,046	34,969	34,892	34,816
332	58,422	56,533	55,612	54,705	53,813	52,936	52,073	51,225	51,112	50,999	50,887	50,775
333	18,156	17,569	17,283	17,001	16,724	16,451	16,183	15,920	15,885	15,850	15,815	15,780
334	823	796	783	770	758	745	733	721	720	718	717	715
335	4,088	3,956	3,891	3,828	3,765	3,704	3,644	3,584	3,576	3,569	3,561	3,553
336	31,933	30,901	30,397	29,902	29,414	28,935	28,463	27,999	27,938	27,876	27,815	27,754
339	1,945	1,882	1,851	1,821	1,791	1,762	1,733	1,705	1,701	1,697	1,694	1,690
Totals (TPY)	318,271	307,980	302,960	298,021	293,164	288,385	283,684	279,060	278,446	277,834	277,223	276,613

Table V-3: Projected Industrial Waste Generation (con't)

NAICS Category	Year									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
311	21,058	20,982	20,907	20,832	20,757	20,669	20,583	20,496	20,408	20,320
313	922	919	916	913	909	905	902	898	894	890
321	14,208	14,156	14,106	14,055	14,004	13,945	13,887	13,828	13,769	13,710
337	744	741	738	736	733	730	727	724	721	718
325	30,014	29,906	29,798	29,691	29,584	29,460	29,336	29,213	29,087	28,962
326	41,798	41,647	41,497	41,348	41,199	41,026	40,854	40,682	40,507	40,333
327	32,277	32,161	32,046	31,930	31,815	31,682	31,549	31,416	31,281	31,146
331	34,690	34,565	34,441	34,317	34,193	34,050	33,907	33,764	33,619	33,475
332	50,593	50,410	50,229	50,048	49,868	49,658	49,450	49,242	49,030	48,820
333	15,723	15,667	15,610	15,554	15,498	15,433	15,368	15,303	15,238	15,172
334	712	710	707	705	702	699	696	693	690	687
335	3,540	3,527	3,515	3,502	3,489	3,475	3,460	3,446	3,431	3,416
336	27,654	27,554	27,455	27,356	27,258	27,143	27,029	26,916	26,800	26,685
339	1,684	1,678	1,672	1,666	1,660	1,653	1,646	1,639	1,632	1,625
Totals (TPY)	275,617	274,625	273,636	272,651	271,669	270,528	269,392	268,261	267,107	265,959

Sources:
Reference Year Waste Generation Data: Table IV-3, adjusted by total industrial generation figure from Table IV-8B (see text in this section)
Generation Rates: Reference Year Waste Generation/Employment Total from Table IV-3
Employment Projections: Ohio Labor Market Information, Toledo MSA Industry Employment Projections Report, 2006-2016. The projected rate of employee decline in this sector was used to project the number of employees in each NAICS sector through 2016. Projections for subsequent years are based on the projected rate of population change in Table V-1.

Total Waste Generation

Total waste generation in **Table V-4** is represented by data from residential/commercial waste generation in **Table V-2** and industrial waste generation from **Table V-3**. Exempt waste projections were based on annual rates of District population decrease from **Table V-1.**

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

Year	Residential Commercial	Industrial	Exempt	Total Waste Generation	Generation Rate (lbs/person/day)
Reference (2008)	710,599	318,271	38,086	1,066,956	13.28
2010	688,968	307,980	38,485	1,035,433	12.75
2011	675,392	302,960	38,390	1,016,742	12.55
2012	678,983	298,021	38,295	1,015,299	12.57
2013	687,904	293,164	38,200	1,019,267	12.65
2014	696,984	288,385	38,105	1,023,474	12.73
2015	695,243	283,684	38,009	1,016,937	12.68
2016	693,750	279,060	37,928	1,010,738	12.63
2017	692,256	278,446	37,846	1,008,548	12.63
2018	690,762	277,834	37,764	1,006,360	12.63
2019	689,268	277,223	37,683	1,004,174	12.63
2020	687,775	276,613	37,601	1,001,988	12.63
2021	685,309	275,617	37,466	998,392	12.63
2022	682,844	274,625	37,331	994,800	12.63
2023	680,379	273,636	37,197	991,211	12.63
2024	677,913	272,651	37,062	987,626	12.63
2025	675,448	271,669	36,927	984,045	12.63
2026	672,603	270,528	36,772	979,903	12.63
2027	669,758	269,392	36,616	975,766	12.63
2028	666,913	268,261	36,461	971,634	12.63
2029	664,068	267,107	36,305	967,480	12.63
2030	661,223	265,959	36,149	963,331	12.63

Notes:
Exempt waste projections were based on annual rates of District population decrease from Table V-1**.**

Sample Calculations:
Exempt Waste Year 2011 = [Exempt Generation Rate (Table IV-9) 2.8 lbs/person/day x 2011 Population Projection (Table V-1)]/2000 lbs per ton x 365 days per year
Total Waste Generation = Res/Comm Gen + Industrial Gen + Exempt Gen
Generation Rate = [Total Waste Generation / Population Projection (Table V-1)] x 2000 lbs per ton / 365 days per year

Sources:
Residential/Commercial Waste Generation from Table V-2
Industrial Waste Generation from Table V-3
Exempt Waste Generation data from Table IV-9
District Population Projections from Table V-1

D. Projections for Waste Stream Composition

At this time, the District does not expect a significant change in materials generated in the municipal waste stream.

E. Waste Reduction Strategies Through Planning Period

The Ohio Environmental Protection Agency District Solid Waste Management Plan Format version 3.0 requires districts to propose waste reduction strategies that enable it to meet the goals established in the 2001 State Plan. These goals are defined as:

- Goal #1 - Ensure the availability for reduction and recycling opportunities/programs for residential/commercial waste.
- Goal #2 - Reduce and/or recycle the below percentages of the total waste generation by the year 2010.
    - Objective #1 – Reduce, reuse, recycle or minimize 25% of residential/commercial waste by the year 2010.
    - Objective #2 – Reduce, reuse, recycle or minimize 66% of industrial waste by the year 2010.
- 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 to manage scrap tires and household hazardous wastes (HHW).
- Goal #6 - Evaluate the feasibility of incorporating economic incentives into source reduction and recycling programs
- Goal #7 - Prepare strategies to promote and develop recycling markets. (Optional)
- Goal #8 - Annual reporting of plan implementation

Districts have the option of demonstrating compliance for the residential/commercial sector with either Goal #1 or Goal #2, Objective #1. This District elects to demonstrate compliance with Goal #1 for the plan period. **Table V-5** identifies the residential/commercial waste reduction strategies intended to provide compliance with Goal #1 by the year 2010 as well as Goals #3 through #8. **Table V-6** identifies the industrial waste reduction strategies demonstrating compliance with Goals #3 through #7.

A description of each recycling or waste reduction activity is found below. For the purposes of both **Table V-5** and **Table V-6** the name of the strategy, date of implementation, entity responsible for implementation, the activity service area, and the materials targeted for reduction are identified for each goal. Strategies addressing multiple goals are listed under each goal separately.

Districts that elect to show compliance with Goal #1 for the residential/commercial sector are still required to show estimated waste reduction associated with each strategy. **Table V-5A** presents estimated waste reduction for each residential/commercial strategy and **Table V-6A** presents estimated waste reduction for each industrial

strategy. Assumptions used to project waste quantities of waste reduced or recovered are presented in the following text.
As a new service addition with this Plan Update, the District will manage the collection contracts for participating local units with the City of Toledo expected to be the first to sign on, should the program move forward. Both waste collection, as well as non-subscription curbside recycling will be part of the service. The District will contract for service delivery, and either directly bill the generators receiving the service or bill to the participating local unit. Details are still being worked out. The goal is to provide a consistent level of both waste management and waste reduction services throughout the District, over time. Expected improvements include provision of recycling incentives, stronger education/outreach, additional materials, and potential for directing the recyclables to a regional recycling facility that the District would work to develop.

Residential/Commercial Waste Reduction Strategies

Non-Subscription Curbside Recycling Programs
Non-subscription recycling means that all residents within a municipality have access to a curbside recycling program (typically limited to 1 to 4 units per building). In these programs, the individual municipal government is responsible for the development/implementation of the program while payment of the program is made directly by the residents or by the municipal government on behalf of the residents. In the reference year, 9 municipalities within the District had non-subscription curbside recycling programs and included the City of Maumee, City of Oregon, City of Toledo, City of Sylvania, Village of Holland, Village of Ottawa Hills, Village of Whitehouse, Village of Waterville and Township of Waterville. In all of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were collected.

The District's goal is to continue this program and expand its coverage to all of the higher density communities by 2020, with the preferred method of collection being single stream curbside recycling with a curb-cart and a recycling incentive. During this time, the District will work with: a) the current list of communities to transition their service to the preferred method of collection; and b) subscription communities to convert to non-subscription recycling. As well, the District will work with all communities to expand coverage to multi-family (4 units and more) that are able to use carts as their recycling collection method. The District will continue to provide technical assistance and solid waste/recycling management expertise upon request to these communities. The District will additionally provide access to recycling information via their website and phone as well as education and outreach materials as needed. The District will also continue to support the addition of a wider range of recyclables to the program.

Under the new service arrangement, the District will be taking on the management of collection contracts for participating local units with the City of Toledo expected to be the first to sign on, with the program set to begin in September of 2011. Both waste collection, as well as non-subscription curbside recycling will be part of the service – referred to as "Curbside Collection Contract Management" in the Section VIII-5 Program Budget Table. With this arrangement, the District would contract for service delivery, and either directly bill the generators receiving the service or bill to the participating local unit. Details are still being worked out. The goal is to provide a consistent level of both waste management and waste reduction services throughout the District, over time. Expected improvements include provision of recycling incentives, stronger education/outreach services, additional materials as part of the recycling program and potential for directing the recyclables to a regional recycling facility that the District would work to develop. The contracts are also expected to include additional options for yard waste collection, possibly reducing the overall demand for yard waste drop-off services.

Performance Assumptions
The non-subscription curbside recycling program will see an increased recycling volume beginning in 2010 from City of Toledo's new single stream recycling program. In the past the program has performed at approximately 4,200 tons per year. It is estimated that in 2011, the program will perform at approximately 22,220 tons. In subsequent years with additional education, outreach and technical assistance to subscription communities, the projection includes a 1% per capita recovery rate increase applied to the population projections from **Table V-1**.

Subscription Curbside Recycling Programs

Subscription recycling means that residents request the recycling service from private haulers and pay for the service on an individual basis, typically as part of their trash collection service. A resident must choose to participate and pay for the recycling service. In the reference year, 12 municipalities within the District had subscription curbside recycling programs and included the Village of Berkey, Village of Harbor View, Township of Harding, Township of Jerusalem, Township of Monclova, Township of Providence, Township of Richfield, Township of Spencer, Township of Springfield, Township of Swanton, Township of Sylvania, and Township of Washington. In all of these programs cardboard, newspapers/magazines, #1 & #2 plastic bottles, bi-metal cans, aluminum and glass were available for collection upon resident request.

The District's goal during the planning period is to reduce reliance on subscription curbside recycling and convert them to non-subscription curbside recycling. The District will work with subscription communities to convert to non-subscription recycling. The Curbside Contract Management Service is one option that the District is exploring for moving this goal forward. For those communities that remain in the subscription curbside recycling service, the preferred method of collection will become single stream curbside recycling with a curb-cart and a recycling incentive. As well, the District will work with all communities to expand coverage to multi-family (4 units and more) that are able to use carts as their recycling collection method. The District will continue to provide technical assistance and solid waste/recycling management expertise upon request to these communities. The District will additionally provide access to recycling information via their website and phone as well as education and outreach materials as needed. The District will also continue to support the addition of a wider range of recyclables to the program.

Performance Assumptions

The subscription curbside recycling program volume over the planning period is expected to slightly increase. The District estimated reference year recycling volumes based on actual volumes for the Village of Waterville and estimated volumes for remaining subscription communities. The number of households was provided by the County's Auditor Office, an average 400 pounds per household per year and an average 25% participation rate was used for the following formula:

Subscription Recycling Volume = # of households x 400 lbs/hh/year x 25% participation rate

In subsequent years the per capita recovery rate was increased by 0.5% per year.

District Drop-Off Recycling Program

The District has an extensive system of public, private and school drop-off recycling sites. During the reference year, the District operated, maintained and serviced 174 drop-off locations including 19 urban public, 10 rural public, 60 private and 85 school drop-off collection sites. The urban and rural public drop-off sites contain 1 to 20 recycling dumpsters (depending on site volume) collecting three streams of materials commingled papers (newspapers, office paper, junk mail, magazines, phone books), cardboard (corrugated, dry food boxes) and commingled containers (aluminum, bi-metal cans, glass – clear, brown and green, #1 and #2 plastic bottles). The majority of private drop-off sites collect cardboard and mixed paper. Additionally the majority of the school drop-off sites collect cardboard and mixed paper, with a few collecting commingled containers.

During the planning period, the District will maintain the operation of their urban and rural collection sites – though site locations may shift depending on community and District circumstances. The District will continue to promote school recycling opportunities by encouraging the operation of school drop-off locations and will provide additional recycling education and information to interested schools. The District will continue to maintain drop-off collection sites within the County Metropark system as a way to encourage recycling in County parks. During the next planning period, the District will shift the locations of the current private drop-off collection sites to public access locations providing the best residential access to recycling – fulfilling the District's goal of being the recycling service provider of last resort. The District will provide technical assistance and guidance to the current list of private and school drop-off locations in an effort to establish a contracted collection vendor to service both

their waste and recycling needs with a more efficient price structure. As an option of last resort the District will provide recycling services with a user based fee. The District will continue to support the addition of a wider range of recyclables to the program.

Performance Assumptions
During the reference year, 8,466 tons of commingled papers (including cardboard) and 2,374 tons of commingled containers were collected. The District drop-off recycling program is expected to see a slight decrease in recycling volume based on a constant per capita rate and decline in population over the planning period from **Table V-1**.

Matzinger Road Facility – and Possible Regional Single Stream MRF
In 2008, the District acquired a Material Recovery Facility located at 1011 Matzinger Road, which was subsequently upgraded and refurbished. On January 18th 2010, the District entered into a contract with Fondessy Enterprises, Inc. to operate the facility, and to provide material recycling processing and marketing services associated with the collection of recycled materials from the District operated drop-off recycling program.

As part of the Plan Update program a regional single stream material recovery facility (MRF) is being considered for development, possibly at the Matzinger Location, or at another location still to be determined. The intent would be for all of the curbside recyclables collected from non-subscription communities be directed to this regional MRF, allowing the District to expand recycling capacity in the region. Other single stream recyclables would be expected at the regional MRF as well, helping to further the District's waste reduction goals. The feasibility of this project, with District ownership and financing along with a private sector design/build/operate partner, is still being explored. The District expects to release an RFP for development of this project and then make a final determination on whether to proceed. The details of the RFP and vendor responses will inform the District's decision making regarding location, required capital, operating costs, marketing arrangements, revenue share and many other operational and business details. This will include exploration of shared capital financing for the project either between governmental participants (e.g. City of Toledo) and/or with the private sector in the design/build/operate partnership.

Performance Assumptions
Since this program strategy provides recycling volumes which are already quantified within other strategies, it is assumed that all materials generated from this strategy are included in the District drop-off collection program.

Business Recycling and Waste Reduction Assistance Program
The District provides information, technical assistance and no cost waste and energy assessments to County commercial and industrial businesses primarily through partnership with the University of Toledo Business Waste Reduction Assistance Program. The service identifies environmentally friendly solutions and cost savings for local businesses through waste minimization and process efficiency solutions. The goals of the program are to (a) increase manufacturing competitiveness through reduced solid waste disposal costs, reduced energy costs and optimized use of raw materials, packaging and floor space; (b) improve corporate image as companies become more green; (c) reduce pollution through reduced energy usage and the application of clean and renewable energy sources; and (d) decreased reliance of landfills for disposal.

During the next planning period, the District will work with the University of Toledo Business Waste Reduction Assistance Program and other partners as appropriate to advance recycling efforts within the commercial and industrial sector. Informational resources, technical assistance, online waste assessments and specific ways businesses can become sustainable, green and achieve zero waste will be available on the District's website in a more advanced way. In an effort to increase communications to the business community, the District will work to develop and electronically send out a waste management advisory bulletin twice a year to small businesses, commercial and industry representatives outlining important developing solid waste issues and solid waste events associated with waste reduction, recycling, yard waste management, electronics and other miscellaneous solid waste issues. The District will use their re-designed website as a mechanism to help with outreach activities. The

new website has an automatic posting notification operation which allows all new website postings to be sent to a signed up user via email. This District will work to sign up commercial and industrial entities to this service so they are up-to-date with District program information and additional outreach avenues. The District, in conjunction with Lott Industries, Keep Toledo/Lucas County Beautiful (KT/LCB) and University of Toledo Business Waste Reduction Program (and other partners as appropriate) will promote involvement and provide resources to the Northwest Ohio Business Recycling Council in an effort to help expand recycling and waste reduction efforts. The District will promote and quantify materials on waste exchange networks as a means for businesses to reduce and reuse the amount of landfilled waste. The District will expand the use of a short form waste and energy assessments by working with the University in an effort to service more commercial and industrial business entities.

Performance Assumptions

During the reference year, 14 business waste assessments were completed identifying 725 tons of material that could be diverted from the landfill with an annual cost savings of $200,800., One business energy assessment was completed identifying 300,000 kilowatt hours of energy that could be reduced with an annual cost savings of $26,500. Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Special Event Container Loan Program

The District in conjunction with Keep Toledo/Lucas County Beautiful will continue their container loan program for individuals and organizations where containers can be loaned out for free for the collection of mixed recyclables at special events and festivals. Interested individuals and organizations can pick up the recycling container collection frames and plastic bags from the District office for use at their special event. Interested parties are asked to monitor the recycling containers during the special event to reduce trash contamination and take the collected recyclables to a District drop-off center, put into curbside collection recycling or call District for special handling procedures.

Performance Assumptions

Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

District Sustainability Program

The District, Keep Toledo/Lucas County Beautiful (KT/LCB) and the University of Toledo Business Waste Reduction Assistance program are all part of the Toledo-Lucas County Sustainability Commission. This Commission has a holistic model of sustainability which reflects the “triple bottom line” thinking. The Commission has three standing subgroups, including the Environmental Quality, Sustainable Energy, and Socioeconomic subcommittees.

The District will continue to support the work of the Toledo-Lucas County Sustainability Commission. The District would like to work with the Commission during the plan period to establish basic metrics for sustainability including documentation of the baseline carbon footprint for Toledo-Lucas County providing the development of measurable and prioritized goals through a carbon management action plan referred to by some communities as their community climate action plan or sustainability plan. The Sustainability Environmental Quality Subcommittee (EQS) will be conducting a baseline analysis of all County buildings identifying which buildings have access to recycling services. The committee will work with the District to increase recycling opportunities to all County buildings that currently do not have recycling services. The committee will also work with the District to encourage all non-subscription curbside recycling communities to consider bundled service contract options to include recycling and/or yard waste services with their trash collection. The committee is also working on

Environmental Purchasing Policies and is piloting an effort with the County's Metroparks to showcase these purchasing policies.

Performance Assumptions
Since the District sustainability program plans to help County buildings with access with recycling, it is projected that the program will produce 150 tons of additional recycling volume during 2011, which will increase to 300 tons during 2012. A flat projection of 300 tons will remain through the planning period.

Additional recycling and waste reduction volumes will be hard to quantify solely to this strategy, so it is assumed that all additional materials generated from this strategy will be included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Recycling and Waste Reduction Education and Outreach
The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) provides general assistance, educational materials and technical assistance in all areas of waste management, recycling, waste reduction, composting, yard waste management, market development, scrap tires, electronics, household hazardous waste as well as other solid waste issues.

During the next planning period, the District plans to increase education and outreach efforts to help promote recycling activities and increase recycling rates. The District will work with each community to design specific educational materials to promote and enhance recycling information, outreach and collected volume within each community. The District will continue to produce, publicize and distribute the Recycler's List to promote recycling activities and material outlets throughout the County. The District will expand the breadth of information available via their website to include recycling information for each community, additional avenues for waste reduction and recycling and links to sites with supplemental information. The District will use their re-designed website as a mechanism to help with outreach activities. The new website has an automatic posting notification operation which allows all new website postings to be sent to a signed up user via email. The District will work to promote this service to residents to keep them up-to-date with District program information and additional outreach avenues.

In an effort to increase communication, the District will work to develop and electronically send out a waste management advisory bulletin twice a year to elected community members, service directors/recycling coordinators and industry representatives outlining important developing solid waste issues and solid waste events associated with waste reduction, recycling, composting, yard waste management, scrap tires, electronics, household hazardous waste and other miscellaneous solid waste issues. The District will also look for opportunities to place information on community access outlets (television and radio) as well as provide press releases to local media and other press outlets regarding District featured events and ongoing programs.

The District will continue to provide recycling education and outreach information and presentations to schools, community groups, block watch groups, and other civic/non-profit organizations. The District will continue to support the City of Toledo's new non-subscription curbside program as well as other communities as they institute non-subscription curbside programs. The District will also continue to promote recycling at festivals, special events and other public/community events. The District and KT/LCB will continue to publish an annual Recycler's List, create and distribute flyers and publications promoting the District's programs and provide daily assistance to residents, communities and businesses through their phone number and website on waste reduction, recycling, reuse, composting, yard waste management, scrap tire, electronics, household hazardous waste and other miscellaneous solid waste issues.

The District will also look to expand their educational strategies through social media presence with tools such as FaceBook, Linked In, Twitter, blogging and Google Adwords. If during a year within the planning period, the cost of

the Recycling and Waste Reduction Education and Outreach program becomes too great for the District, the District will modify their approach in how they handle their education and outreach.

Performance Assumptions
Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

School Paper Recycling Program
The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) promotes school recycling efforts through a pilot recycling collection program that involves interior and exterior recycling assistance. KT/LCB works with school officials and students to set up a pilot recycling program for mixed paper and cardboard materials as well as commingled containers at specific locations.

The District feels it is extremely beneficial to provide recycling services to schools within the County in an effort to help promote recycling not only at school but also at each student's home. The District will continue to promote school recycling and will encourage additional schools to establish recycling programs. The District will provide resources and information to schools about how to reduce, reuse, recycle and buy recycled as requested. If during the planning period, the cost of the School Paper Recycling Program exceeds the District's financial capacity, the District will work with the school system to develop a more sustainable solution. The District will continue to support the addition of a wider range of recyclables in the list of acceptable materials collected at schools. With the possible developments in single stream collection, the school recycling program could handle the entire District's current list of container types.

Performance Assumptions
During the reference year, 85 schools participated in the school paper recycling program. Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

School Education and Outreach Program
The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) promotes school education and outreach information and programs. KT/LCB provides schools within the District a list of comprehensive activities and informational resources for students, teachers and educators. All programs are designed for students from K-12, pre-school, youth groups and scout troops.

The District in partnership with KT/LCB will continue the school education and outreach program during the planning period. The District will continue to provide teacher workshops on the latest solid waste management ideas/techniques, recycling and waste reduction programs, litter prevention and additional salient environmental issues. The District will continue to make available a lending library which is home to a wide variety of environmental education books, videos, environmental education activities and informational brochures. The lending library is available to loan for classrooms, schools and communities. The District will look to expand their educational strategies through social media presence with tools such as FaceBook, Linked In, Twitter, blogging and Google Adwords.

Performance Assumptions
During the reference year, 82 school educational programs were conducted reaching 2,152 students and 122 teachers and 16 general outreach recycling education presentations were conducted reaching 19 youth and 262 adults. Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-

off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Household Hazardous Waste, Electronics, Scrap Tires and Battery Program

The District will continue to target household hazardous wastes, scrap tires, batteries and electronics for diversion from landfill disposal. As the current household hazardous waste collection site contract period closed in 2010, the District intends to evaluate how to improve the program while reducing costs and seeking supporting revenues (e.g. grants when available) while services are restored after the Plan Update is approved. To encourage greater individual responsibility for these special waste streams, the District will put additional resources into a) educating residents about non-toxic chemical alternatives to home hazardous chemicals, b) promoting other recycling avenues for electronics, electronic media and batteries through local companies and national companies (i.e. Best Buy, Staples, etc) and c) linking with other take-back programs that are offering options directly to consumers (e.g. Goodwill, Andersons, tire retailers, etc.).

The District intends to continue to collect household hazardous wastes, scrap tires and lead-acid batteries with a contracted vendor, with funding that is restored after the Plan Update is approved. The level of service that is contracted for will depend on available resources. A user fee may be administered for all household hazardous wastes in addition to the scrap tires and televisions. Additionally the District may develop a separate user fee for small businesses to recycle their electronics and electronic media. If during the planning period, the cost of the permanent household hazardous waste, scrap tire and lead-acid battery program becomes unacceptable to the District, the District will may replace it with alternatives such as (a) one-day special collection events; (b) a stronger fee based programming and services; and/or (c) use of internet based tools to support and encourage use of a broader set of take-back and reuse services that are available in the community.

As currently planned, the reductions in these collection programs that were instituted in early 2011 will be restored to 2010 service levels, with the phasing in of the restoration beginning in 2012. Periodic cost control service audits will be performed on the program to optimize service levels and reduce costs as needed to match available resources.

Performance Assumptions

During the reference year, 872 cars came to the household hazardous waste collection site dropping off 27.29 tons of household hazardous waste, 9,696 tires and 47.99 tons of electronics. The household hazardous waste, electronics, scrap tires and battery program is projected to have a volume decrease of 25% due to program changes in 2011. After 2011, volumes will be projected with a slight decrease on per capita rates in subsequent years (**Table V-1**).

Yard Waste Collection Program

Since the District continues to generate a large amount of yard waste materials, the District will continue to target yard wastes for diversion from landfill disposal. As the cost of the yard waste collection program continues to increase through the years, the District will change how the program will be run during the next planning period. The District will provide technical assistance to municipalities to add curbside yard waste collection into existing or new collection contracts along with bundled waste and recycling services. The District will also promote yard waste collection facilities within the District via their website, publications and flyers for the acceptance of both residential and commercial yard wastes.

As the current yard waste collection site contract period closed in 2010, the District is evaluating the appropriate program to assure that a licensed location for dropping off yard wastes is available to County residents. The District's evaluation will examine sustainable systems where residents and commercial entities may be required to pay a fee per cubic yard of material dropped off at one or a series of collection sites throughout the County. Additionally the District may consider use of financial incentives to encourage development of these services. The District will additionally promote yard waste mulching, backyard composting and other avenues to reduce the

amount of yard waste that goes to either the landfill or the District's collection sites. The District may sponsor an annual compost bin sale in an effort to help residents compost/mulch their own yard waste materials.

As currently planned, the reductions in the District funded yard waste drop-off services that were instituted in early 2011 will be restored, over time, to 2010 service levels, with the restoration of services phased in at a lower level of expenditure, made possible by increased competition from yard waste processing vendors that want to be part of the District program. Periodic cost control service audits will be performed on the program to optimize service levels and reduce costs as needed to match available resources.

Finally, the District will continue to explore advanced composting solutions that would be able to divert a broader range of organic materials in the waste stream. This may include solutions such as anaerobic digesting technologies that are able to handle food waste, other organic components of the municipal waste stream and industrial and institutional organic waste streams. Steps the District may take during this period may include feasibility assessments, technology evaluations, and preliminary project development activities.

Performance Assumptions
During the reference year, the District operated yard waste site serviced 80,242 cars collecting 32,784 tons of yard waste materials. The remainder of the yard waste facilities within the District collected 29,222 tons of yard waste materials. The yard waste collection program is projected to have a volume decrease of 25% due to program changes in 2011. After 2011, volumes will be restored with a slight decrease over time based on per capita rates in subsequent years (**Table V-1**).

Disaster Debris Management Plan
The Lucas County Emergency Management Agency has developed a Disaster Debris Management Plan that is intended to serve as a guidance document for use by Lucas County officials and the twenty-one subdivisions within the District. It provides information on policies and procedures for the removal and disposal of debris resulting from a major natural or man-made disaster. The Disaster Debris Management Plan is intended to be used to facilitate and coordinate the management of all debris related issues following a disaster. The guidance provided in this plan should also serve to provide an outline for local policies and procedures that could serve to mitigate post disaster conditions when potentially large debris fields will present threats to public health and safety and retard a community's ability to quickly return to pre-disaster conditions. The Lucas County Emergency Management Agency will activate the Emergency Operations Center at the direction of the Board of County Commissioners, the Lucas County Sheriff or upon the request of any county sub-division executive. The Emergency Operations Center will coordinate with local officials, County Departments and the State on emergency response and recovery planning and decisions.

Performance Assumptions
The Disaster Debris Management Plan will continue to be a reference if a major natural or man-made disaster occurs within Lucas County.

Municipal Assistance Program
The District supports each community's individual programs and recycling efforts by providing resources such as promotion and awareness programs, literature and advertising development, research, collection contract specifications and special event coordination and collection. The District is available and provides assistance to all communities within the County on a request basis as communities explore different ways to handle their waste and recycling materials.

During the next planning period, the District will make a concerted effort to shift subscription curbside recycling communities to non-subscription curbside service and upgrade recycling services to single stream (with carts, recycling incentives and additional materials) by encouraging every community to provide or make available bundled collection services where residents would receive curbside waste, recycling and/or yard waste services.

The District will contact each community to identify current collection contracts and when they expire. The District may make available sample collection RFP's and sample contracts as well as staff assistance and expertise to communities as they work to bundle their collection services. District technical assistance and expertise in the financial evaluation of proposals (on request) in order to document the community savings, service improvements and environmental benefits that can be achieved through this approach. In an effort to facilitate this assistance, the District will plan to meet with each community on an annual basis to go over their current collection system, identify ways to improve collection services, provide additional avenues for recycling and waste reduction and go over data gathering and entry procedures.

Performance Assumptions
Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Data Reporting Program
Accurate recycling and waste reduction data is essential to the District for their Annual District Report each year. This data provides quantitative measures that the District's programs not only important but is beneficial to achieving Goal #2.

During the next planning period, the District will devote additional time and energy to continuously improve their data capturing mechanisms. The District will work to build more transparent and stronger relationships with waste/recycling collection haulers as well as local recycling processors to improve annual data reporting. Haulers and processors that complete the required data information requests for the Annual District Report will be featured on a specific page on the District's website and in District sponsored publications and flyers. The District will work with the University of Toledo Business Waste Reduction Program to capture current recycling and waste reduction activities and provide assistance to facilitate additional recycling tonnage within the commercial and industrial sectors. All haulers, processors and commercial/industrial businesses that work with the District and provide recycling data will be provided a certificate stating they are a District partner in reducing and recycling the amount of waste landfilled in Lucas County. The District will contact each municipality on a yearly basis to provide assistance in pulling together and entering essential recycling data into the District's data gathering tool and to discuss ways the District can help facilitate the collection of additional recycling tonnage.

Performance Assumptions
Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Market Development Assistance
The District will continue to assist local businesses with the development of recycled products through "Market Development Grants" offered through the State of Ohio. These grants support projects for research and development of products utilizing recycled materials in their products. The District is available to help conceptualize a project and provide assistance in completing the State's grant application.

Performance Assumptions
Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Litter Collection Program

The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) will continue to provide an Adopt-A-Road/Street program for the County. Volunteer groups and organizations are invited to help remove litter and other debris from 2-mile sections of County roadways or City, Township and Village streets. The program goal is to raise public awareness and improve the appearance of County roadways. The program provides trash bags, safety vests and litter tongs to all groups during their clean-up times.

Performance Assumptions

Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Community Grant – Recycling Incentive Program

The District makes funds available to communities to implement new and support existing solid waste reduction and recycling programs that assist the District in meeting the Solid Waste Plan objectives and goals. Grant funds are awarded to communities, upon District approval, that meet District criteria and complete a grant application (see Appendix K for grant application, criteria and guidelines). All communities will have an equal opportunity to apply for the grant funds as long as District criteria are met.

Programs that improve the District's achievement of Goal #2 will receive priority funding – consistent with the objectives identified in the District's Municipal Assistance program, combining directed technical assistance with the financial incentive provided by the grants. All communities that receive grant funding will need to submit a grant report at the end of the fiscal year outlining a description of how the grant money was allocated, program goals, qualitative and quantitative data (including how many households participated and number tons of recyclables were diverted from the landfill) as part of the grant funded program. If during a year within the planning period, the cost of the Community Grant program exceeds the District's financial capacity, the District will place the program on hold until the following year.

Performance Assumptions

Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

Table V-5: District Residential and Commercial Waste Reduction Strategies

Goal #1: Ensure the availability of waste reduction and recycling opportunities/programs for residential/commercial waste.					
Strategy	**Description**	**Date Started**	**Implemented By**	**Service Area/Benefits**	**Targeted Materials**
Non-Subscription Curbside Recycling Programs	See text above	Ongoing	Varies	Varies	All materials
Subscription Curbside Recycling Programs	See text above	Ongoing	Varies	Varies	All materials
District Drop-Off Recycling Program	See text above	Ongoing	LCSWMD	District-wide	All materials
Curbside Collection Contract Management	See text above	9/1/2011	LCSWMD	Potential for District-wide impact if communities elect to participate	All materials
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
Special Event Container Loan Program	See text above	2008	LCSWMD & KT/LCB	Varies	Commingled bottles and cans
District Sustainability Program	See text above	2008	LCSWMD, KT/LCB, UT BWRAP, Lucas/Toledo Sustainability Commission	District-wide	All materials
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
School Paper Recycling Program	See text above	2008	LCSWMD & KT/LCB	District schools	All materials
School Education and Outreach Program	See text above	Ongoing	LCSWMD & KT/LCB	District schools	All materials
Community Grant – Recycling Incentive Program	See text above	Ongoing	LCSWMD	District-wide	All materials
Goal #3: Provide information and technical assistance on source reduction.					
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Municipal Assistance Program	See text above	Ongoing	LCSWMD	District municipalities	All materials
Market Development Assistance	See text above	Ongoing	LCSWMD	District-wide	Varies

Table V-5: District Residential and Commercial Waste Reduction Strategies

Goal #4: Provide information and technical assistance on recycling, reuse and composting opportunities.					
Strategy	**Description**	**Date Started**	**Implemented By**	**Service Area/Benefits**	**Targeted Materials**
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Yard Waste Collection Program	See text above	Ongoing	LCSWMD	District-wide	Yard waste, grass, leaves and branches
Municipal Assistance Program	See text above	Ongoing	LCSWMD	District municipalities	All materials
Market Development Assistance	See text above	Ongoing	LCSWMD	District-wide	Varies
Goal #5: Provide strategies for managing scrap tires and household hazardous wastes.					
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Household Hazardous Waste, Electronics, Scrap Tires and Battery Program	See text above	Ongoing	LCSWMD	District-wide	HHW materials, scrap electronics, scrap tires and batteries
Litter Collection Program	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	Litter and illegally dumped materials
Goal #6: Evaluate the feasibility of incorporate economic incentives into source reduction and recycling programs.					
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
District Sustainability Program	See text above	2008	LCSWMD, KT/LCB, UT BWRAP, Lucas/Toledo Sustainability Commission	District-wide	All materials
Municipal Assistance Program	See text above	Ongoing	LCSWMD	District municipalities	All materials
Market Development Assistance	See text above	Ongoing	LCSWMD	District-wide	Varies

Table V-5: District Residential and Commercial Waste Reduction Strategies

Strategy	Description	Date Started	Implemented By	Service Area/Benefits	Targeted Materials
Community Grant – Recycling Incentive Program	See text above	Ongoing	LCSWMD	District-wide	All materials
Goal #7 - Prepare strategies to promote and develop recycling markets.					
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
Municipal Assistance Program	See text above	Ongoing	LCSWMD	District municipalities	All materials
Market Development Assistance	See text above	Ongoing	LCSWMD	District-wide	Varies
Goal #8: Annual reporting of plan implementation.					
Data Reporting Program	See text above	Ongoing	LCSWMD	District-wide	Varies

Table V-5A: Residential/Commercial Waste Reduction Strategies

Strategy	Type of Material Reduced/Recycled	Reference (2008)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Source Reduction Strategies												
Recycling and Waste Reduction Education and Outreach	All materials	0	0	0	0	0	0	0	0	0	0	0
Business Recycling and Waste Reduction Assistance Program	All materials - specifically cardboard and mixed paper	0	0	0	0	0	0	0	0	0	0	0
Source Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
Recycling Strategies												
Non-Subscription Curbside Recycling Programs	All materials	7,820	25,620	25,812	26,006	26,201	26,397	26,594	26,802	27,012	27,223	27,436
Subscription Curbside Recycling Programs	All materials	1,746	1,773	1,778	1,782	1,787	1,791	1,796	1,801	1,806	1,811	1,816
District Drop-Off Recycling Program	All materials	10,840	10,954	10,927	10,899	10,872	10,845	10,818	10,795	10,772	10,748	10,725
Business Recycling and Waste Reduction Assistance Program	All materials – specifically cardboard and mixed paper	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Special Event Container Loan Program	Commingled containers (aluminum, glass, #1 & #2 plastic bottles)	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
District Sustainability Program	All materials	0	0	150	300	300	300	300	300	300	300	300
Recycling and Waste Reduction Education and Outreach	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
School Paper Recycling Program	Cardboard and mixed paper	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
School Education and Outreach Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
HHW, Electronics, Scrap Tires and Battery Program	Household hazardous wastes, scrap tires, electronics and batteries	446	446	334	446	444	442	441	440	439	439	438

Table V-5A: Residential/Commercial Waste Reduction Strategies (con't)

Strategy	Type of Material Reduced/Recycled	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Source Reduction Strategies												
Recycling and Waste Reduction Education and Outreach	All materials	0	0	0	0	0	0	0	0	0	0	0
Business Recycling and Waste Reduction Assistance Program	All materials - specifically cardboard and mixed paper	0	0	0	0	0	0	0	0	0	0	0
Source Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
Recycling Strategies												
Non-Subscription Curbside Recycling Programs	All materials	27,650	27,827	28,004	28,182	28,360	28,540	28,704	28,868	29,033	29,198	29,364
Subscription Curbside Recycling Programs	All materials	1,821	1,824	1,826	1,829	1,831	1,834	1,835	1,836	1,838	1,839	1,840
District Drop-Off Recycling Program	All materials	10,702	10,664	10,625	10,587	10,549	10,510	10,466	10,422	10,377	10,333	10,289
Business Recycling and Waste Reduction Assistance Program	All materials – specifically cardboard and mixed paper	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Special Event Container Loan Program	Commingled containers (aluminum, glass, #1 & #2 plastic bottles)	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
District Sustainability Program	All materials	300	300	300	300	300	300	300	300	300	300	300
Recycling and Waste Reduction Education and Outreach	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
School Paper Recycling Program	Cardboard and mixed paper	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
School Education and Outreach Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
HHW, Electronics, Scrap Tires and Battery Program	Household hazardous wastes, scrap tires, electronics and batteries	437	435	433	432	430	429	427	425	423	422	420

Table V-5A: Residential/Commercial Waste Reduction Strategies (con't)

Strategy	Type of Material Reduced/Recycled	Reference (2008)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Recycling Strategies (con't)												
Municipal Assistance Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Data Reporting Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Market Development Assistance	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Litter Collection Program	Roadside litter and waste	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Community Grant – Recycling Incentive Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Other Recycling Not Directed by District	All materials	66,307	67,001	66,836	66,670	66,504	66,339	66,173	66,031	65,889	65,747	65,604
Recycling Subtotal		87,159	105,794	105,837	106,103	106,108	106,114	106,122	106,169	106,218	106,268	106,319
Yard Waste Collection Program	Yard wastes – branches, leaves, grass, shrubbery	32,784	32,784	24,588	32,703	32,621	32,540	32,459	32,389	32,319	32,250	32,180
Other Compost/Yard Waste Not Directed by District	Yard wastes – branches, leaves, grass, shrubbery	26,497	26,775	26,709	26,643	26,576	26,510	26,444	26,387	26,330	26,274	26,217
Compost/Yard Waste Subtotal		59,281	59,559	51,297	59,345	59,198	59,050	58,903	58,776	58,650	58,523	58,397
Other Waste Reduction Strategies												
Incineration		0	0	0	0	0	0	0	0	0	0	0
MSW Composting		0	0	0	0	0	0	0	0	0	0	0
Other Waste Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
GRAND TOTALS		146,440	165,353	157,133	165,449	165,305	165,165	165,025	164,946	164,868	164,791	164,716

Table V-5A: Residential/Commercial Waste Reduction Strategies (con't)

Strategy	Type of Material Reduced/Recycled	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Recycling Strategies (con't)												
Municipal Assistance Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Data Reporting Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Market Development Assistance	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Litter Collection Program	Roadside litter and waste	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Community Grant – Recycling Incentive Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Other Recycling Not Directed by District	All materials	141,534	141,027	140,520	140,012	139,505	138,998	138,412	137,827	137,241	136,656	136,070
Recycling Subtotal		182,261	181,893	181,526	181,160	180,794	180,429	179,964	179,499	179,034	178,570	178,106
Yard Waste Collection Program	Yard wastes – branches, leaves, grass, shrubbery	32,110	31,995	31,880	31,765	31,650	31,535	31,402	31,269	31,136	31,003	30,871
Other Compost/Yard Waste Not Directed by District	Yard wastes – branches, leaves, grass, shrubbery	26,160	26,066	25,972	25,879	25,785	25,691	25,583	25,475	25,366	25,258	25,150
Compost/Yard Waste Subtotal		58,270	58,061	57,852	57,644	57,435	57,226	56,985	56,744	56,503	56,262	56,021
Other Waste Reduction Strategies												
Incineration		0	0	0	0	0	0	0	0	0	0	0
MSW Composting		0	0	0	0	0	0	0	0	0	0	0
Other Waste Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
GRAND TOTALS		164,642	164,338	164,034	163,731	163,429	163,127	162,735	162,343	161,951	161,560	161,169

Notes:
See Table V-5A for a description of strategies, projection assumptions and sample calculations.
"Incl." = Since the program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in another program strategy.
"0" = Quantity cannot be determined or documented.

Industrial Waste Reduction Strategies

Business Recycling and Waste Reduction Assistance Program

The District provides information, technical assistance and no cost waste and energy assessments to County commercial and industrial businesses primarily through partnership with the University of Toledo Business Waste Reduction Assistance Program. The service identifies environmentally friendly solutions and cost savings for local businesses through waste minimization and process efficiency solutions. The goals of the program are to (a) increase manufacturing competitiveness through reduced solid waste disposal costs, reduced energy costs and optimized use of raw materials, packaging and floor space; (b) improve corporate image as companies become more green; (c) reduce pollution through reduced energy usage and the application of clean and renewable energy sources; and (d) decreased reliance of landfills for disposal.

During the next planning period, the District will work with the University of Toledo Business Waste Reduction Assistance Program and other partners as appropriate to advance recycling efforts within the commercial and industrial sector. Informational resources, technical assistance, online waste assessments and specific ways businesses can become sustainable, green and achieve zero waste will be available on the District's website in a more advanced way. In an effort to increase communications to the business community, the District will work to develop and electronically send out a waste management advisory bulletin twice a year to small businesses, commercial and industry representatives outlining important developing solid waste issues and solid waste events associated with waste reduction, recycling, yard waste management, electronics and other miscellaneous solid waste issues. The District will use their re-designed website as a mechanism to help with outreach activities. The new website has an automatic posting notification operation which allows all new website postings to be sent to a signed up user via email. This District will work to sign up commercial and industrial entities to this service so they are up-to-date with District program information and additional outreach avenues. The District, in conjunction with Lott Industries, Keep Toledo/Lucas County Beautiful (KT/LCB) and University of Toledo Business Waste Reduction Program (and other partners as appropriate) will promote involvement and provide resources to the Northwest Ohio Business Recycling Council in an effort to help expand recycling and waste reduction efforts. The District will promote and quantify materials on waste exchange networks as a means for businesses to reduce and reuse the amount of landfilled waste. The District will expand the use of a short form waste and energy assessments by working with the University in an effort to service more commercial and industrial business entities.

Performance Assumptions

During the reference year, 14 business waste assessments were completed identifying 725 tons of material that could be diverted from the landfill with an annual cost savings of $200,800., One business energy assessment was completed identifying 300,000 kilowatt hours of energy that could be reduced with an annual cost savings of $26,500. Since this program strategy provides recycling and waste reduction volumes which are hard to quantify solely to this strategy, it is assumed that all materials generated from this strategy are included in the District drop-off collection program, a municipal curbside recycling program or picked up by a commercial recycling collection or processing vendor.

District Sustainability Program

Same description as above in Residential/Commercial Waste Reduction Strategies.

Recycling and Waste Reduction Education and Outreach

Same description as above in Residential/Commercial Waste Reduction Strategies.

Data Reporting Program

Same description as above in Residential/Commercial Waste Reduction Strategies.

Market Development Assistance

Same description as above in Residential/Commercial Waste Reduction Strategies.

Table V-6: District Industrial Waste Reduction Strategies

Strategy	Description	Date Started	Implemented By	Service Area/Benefits	Targeted Materials
Goal #2: Reduce/recycling at least 50% of District industrial solid waste by the year 2010.					
Recycling and Waste Reduction Education and Outreach	See text above	Ongoing	LCSWMD & KT/LCB	District-wide	All materials
Business Recycling and Waste Reduction Assistance Program	See text above	Ongoing	LCSWMD & UT BWRAP	District businesses & institutions	All materials
District Sustainability Program	See text above	2008	LCSWMD, KT/LCB, UT BWRAP, Lucas/Toledo Sustainability Commission	District-wide	All materials
Market Development Assistance	See text above	Ongoing	LCSWMD	District-wide	Varies
Data Reporting Program	See text above	Ongoing	LCSWMD	District-wide	Varies

Table V-6A: Industrial Waste Reduction Strategies

Strategy	Type of Material Reduced/ Recycled	Reference (2008)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Source Reduction Strategies												
Business Recycling and Waste Reduction Assistance Program	All materials	0	0	0	0	0	0	0	0	0	0	0
Recycling and Waste Reduction Education and Outreach	All materials	0	0	0	0	0	0	0	0	0	0	0
Source Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
Recycling Strategies												
Business Recycling and Waste Reduction Assistance Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
District Sustainability Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Recycling and Waste Reduction Education and Outreach	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Data Reporting Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Market Development Assistance	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Other Recycling Not Directed by District	All materials	235,337	227,727	224,015	220,364	216,772	213,239	209,763	206,344	205,890	205,437	204,985
Recycling Strategies Subtotal		235,337	227,727	224,015	220,364	216,772	213,239	209,763	206,344	205,890	205,437	204,985
Other Waste Reduction Strategies												
Incineration		0	0	0	0	0	0	0	0	0	0	0
Other Waste Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
GRAND TOTALS		235,337	227,727	224,015	220,364	216,772	213,239	209,763	206,344	205,890	205,437	204,985

Table V-6A: Industrial Waste Reduction Strategies (con't)

Strategy	Type of Material Reduced/ Recycled	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Source Reduction Strategies												
Business Recycling and Waste Reduction Assistance Program	All materials	0	0	0	0	0	0	0	0	0	0	0
Recycling and Waste Reduction Education and Outreach	All materials	0	0	0	0	0	0	0	0	0	0	0
Source Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
Recycling Strategies												
Business Recycling and Waste Reduction Assistance Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
District Sustainability Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Recycling and Waste Reduction Education and Outreach	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Data Reporting Program	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Market Development Assistance	All materials	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Other Recycling Not Directed by District	All materials	204,534	203,797	203,064	202,333	201,604	200,879	200,035	199,195	198,358	197,505	196,656
Recycling Strategies Subtotal		204,534	203,797	203,064	202,333	201,604	200,879	200,035	199,195	198,358	197,505	196,656
Other Waste Reduction Strategies												
Incineration		0	0	0	0	0	0	0	0	0	0	0
Other Waste Reduction Subtotal		0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		204,534	203,797	203,064	202,333	201,604	200,879	200,035	199,195	198,358	197,505	196,656

Notes:
Reference year industrial recovery is estimated to be 235,337 tons for the reference year (Table IV-7). This projection is adjusted over the planning period based on the projected decline in industrial employment (Table V-3). The recovery rate is projected to remain flat as most industrial recycling is outside the sphere of the District's influence.

Section 6. Methods of Management

The purpose of this section is to demonstrate the total amount of waste to be handled by each method: recycling, composting, landfilling and incineration during the planning period. As required, the District has provided contracts and other signed agreements demonstrating access to sufficient capacity. Copies are provided in the Appendix H and are referenced as appropriate.

A. District Methods for Management of Solid Waste

Calculation of Capacity Needs

Table VI-1 summarizes the District solid waste quantities expected to be managed by alternative methods during each year of the planning period. Alternative methods are those used to dispose of solid waste other than landfilling.

The District will use three primary management methods to handle solid waste during the planning period: Recycling, Yard Waste Composting and Landfilling. Waste generation estimates are based on data provided in **Table V-4**. Recycling and yard waste composting estimates are based on the assumptions presented in Section 5.

As indicated in the Ohio Environmental Protection Agency District Solid Waste Management Format version 3.0, the amount to be landfilled during the planning period is calculated by subtracting the tons managed by all other methods. Reference year data is based on reported quantities, is described in detail in Section 4 of this plan.

Table VI-2 and **Table VI-3** present the estimated quantities of District residential/commercial and industrial wastes, respectively, expected to be managed by alternative methods during the planning period.

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

				Management Methods Used and Processing Capacity Required in TPY						
Year	Tons SW Generated [1]	Tons Source Reduced [2]	Net Tons to be Managed by SWMD [3]	Recycling [4]	Transfer [5]	Yard Waste Composting [6]	YW Land Application [7]	Incineration [8]	MSW Composting [9]	Landfilling [10]
Reference (2008)	1,066,956	-	1,066,956	322,495	-	59,281	-	-	-	685,179
2010	1,035,433	-	1,035,433	333,521	-	59,559	-	-	-	642,353
2011	1,016,742	-	1,016,742	329,852	-	51,297	-	-	-	635,593
2012	1,015,299	-	1,015,299	326,467	-	59,345	-	-	-	629,487
2013	1,019,267	-	1,019,267	322,879	-	59,198	-	-	-	637,190
2014	1,023,474	-	1,023,474	319,353	-	59,050	-	-	-	645,070
2015	1,016,937	-	1,016,937	315,885	-	58,903	-	-	-	642,149
2016	1,010,738	-	1,010,738	312,513	-	58,776	-	-	-	639,448
2017	1,008,548	-	1,008,548	312,107	-	58,650	-	-	-	637,791
2018	1,006,360	-	1,006,360	311,704	-	58,523	-	-	-	636,133
2019	1,004,174	-	1,004,174	311,304	-	58,397	-	-	-	634,473
2020	1,001,988	-	1,001,988	310,906	-	58,270	-	-	-	632,812
2021	998,392	-	998,392	310,074	-	58,061	-	-	-	630,257
2022	994,800	-	994,800	309,246	-	57,852	-	-	-	627,702
2023	991,211	-	991,211	308,420	-	57,644	-	-	-	625,147
2024	987,626	-	987,626	307,599	-	57,435	-	-	-	622,593
2025	984,045	-	984,045	306,780	-	57,226	-	-	-	620,039
2026	979,903	-	979,903	305,785	-	56,985	-	-	-	617,133
2027	975,766	-	975,766	304,794	-	56,744	-	-	-	614,229
2028	971,634	-	971,634	303,806	-	56,503	-	-	-	611,325
2029	967,480	-	967,480	302,803	-	56,262	-	-	-	608,415
2030	963,331	-	963,331	301,804	-	56,021	-	-	-	605,506

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

Notes:
[1] Tons of solid waste generated as shown in "Total Waste Generation" of Table V-4
[2] "Tons of Source Reduced" is sum of Tables V-5 and V-6
[3] "Net Tons to be Managed by SWMD" = "Tons SW Generated" - "Tons Source Reduced"
[4] "Total Recycling" as shown in Table V-5 and Table V-6. Both res/comm and industrial recycling totals are added together
[5] There are no solid waste transfer facilities in operation within the District
[6] "Total Yard Waste Composting" as shown in Table V-5
[7] No known quantities of yard waste are land applied in the District
[8] No publicly available incinerators are known to accept District waste
[9] There are no MSW composting facilities operating within the District, nor any reportedly accepting solid waste from the District
[10] "Landfilling" = "Net Tons to be Managed by SWMD" - "Recycling" - "Yard Waste Composting"

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

Year	Tons Generated [1]	Management Method in TPY				
		Source Reduction & Recycling [2]	Incineration [3]	Yard Waste Composting [4]	Landfilling [5]	Ash Disposal [6]
Reference (2008)	710,599	87,159	-	59,281	564,159	-
2010	688,968	105,794	-	59,559	523,615	-
2011	675,392	105,837	-	51,297	518,259	-
2012	678,983	106,103	-	59,345	513,534	-
2013	687,904	106,108	-	59,198	522,599	-
2014	696,984	106,114	-	59,050	531,819	-
2015	695,243	106,122	-	58,903	530,218	-
2016	693,750	106,169	-	58,776	528,804	-
2017	692,256	106,218	-	58,650	527,388	-
2018	690,762	106,268	-	58,523	525,971	-
2019	689,268	106,319	-	58,397	524,552	-
2020	687,775	106,372	-	58,270	523,132	-
2021	685,309	106,277	-	58,061	520,971	-
2022	682,844	106,182	-	57,852	518,810	-
2023	680,379	106,088	-	57,644	516,648	-
2024	677,913	105,994	-	57,435	514,484	-
2025	675,448	105,902	-	57,226	512,321	-
2026	672,603	105,750	-	56,985	509,868	-
2027	669,758	105,599	-	56,744	507,415	-
2028	666,913	105,448	-	56,503	504,962	-
2029	664,068	105,298	-	56,262	502,508	-
2030	661,223	105,148	-	56,021	500,054	-

Notes:
[1] Tons of solid waste generated as shown in "Total Residential/Commercial Waste Generation" of Table V-2
[2] "Tons of Source Reduction & Recycling" is from Table V-5
[3] No publicly available incinerators are known to accept District waste
[4] "Yard Waste Composting" as shown in Table V-5
[5] "Landfilling" = "Tons Generated" - "Recycling" - "Yard Waste Composting"
[6] No known quantities of ash are disposed in the District

Table VI-3: Summary of Industrial Waste Management Methods

Year	Tons Generated [1]	Management Method in TPY				
		Source Reduction & Recycling [2]	Incineration [3]	Yard Waste Composting [4]	Landfilling [5]	Ash Disposal [6]
Reference (2008)	318,271	235,337	-	-	82,934	-
2010	307,980	227,727	-	-	80,252	-
2011	302,960	224,015	-	-	78,944	-
2012	298,021	220,364	-	-	77,657	-
2013	293,164	216,772	-	-	76,392	-
2014	288,385	213,239	-	-	75,146	-
2015	283,684	209,763	-	-	73,922	-
2016	279,060	206,344	-	-	72,717	-
2017	278,446	205,890	-	-	72,557	-
2018	277,834	205,437	-	-	72,397	-
2019	277,223	204,985	-	-	72,238	-
2020	276,613	204,534	-	-	72,079	-
2021	275,617	203,797	-	-	71,819	-
2022	274,625	203,064	-	-	71,561	-
2023	273,636	202,333	-	-	71,303	-
2024	272,651	201,604	-	-	71,047	-
2025	271,669	200,879	-	-	70,791	-
2026	270,528	200,035	-	-	70,493	-
2027	269,392	199,195	-	-	70,197	-
2028	268,261	198,358	-	-	69,903	-
2029	267,107	197,505	-	-	69,602	-
2030	265,959	196,656	-	-	69,303	-

[1] Tons of solid waste generated as shown in "Total Industrial Waste Generation" of Table V-3
[2] "Tons of Source Reduction & Recycling" is from Table V-6
[3] No publicly available incinerators are known to accept District waste
[4] There are no MSW composting facilities operating within the District, nor any reportedly accepting solid waste from the District
[5] "Landfilling" = "Tons Generated" - "Recycling"
[6] No known quantities of ash are disposed in the District

B. Demonstration of Access to Capacity

The waste management methods to be used by the District are presented in **Table VI-4**. The tables include projections on how wastes will be managed by each method (recycling, composting and landfilling) for each year of the planning period.

Information for the reference year is based on reported quantities, initially collected for the Lucas County 2008 Annual District Report as well as follow-up surveys conducted in 2009 and 2010. Based on the results presented in Table VI-4, sufficient capacity exists for each method.

Regional Disposal Capacity Analysis

Table VI-4A provides projections on the amount of solid waste to be managed through landfilling for the twenty-year planning period.

Quantities accepted by each landfill during the twenty-year planning period were based on allocations during the reference year. For the purpose of these calculations, if a landfill is accepting 22% of the District's disposed waste during the reference year, the same landfill is expected to accept the same percentage of estimated future District disposed waste until the landfill capacity is extinguished.

During the reference year, four landfills accepted the majority of the District's wastes and include the City of Toledo's Hoffman Road Landfill (Lucas County, OH), Waste Management's Evergreen R & D Landfill (Wood County, OH), Republic's Vienna Junction Landfill (Monroe County, MI) and Carleton Farms Landfill (Lenawee County, MI). Of the total 685,059 tons of waste disposed by the District during the reference year, 685,034 tons went to these landfills.

The Hoffman Road Landfill only accepts solid waste generated by City of Toledo residents and City collection crews collect the vast majority of incoming waste. Hoffman Road Landfill accepted 153,513 tons of District-generated waste during the reference year, or approximately 22.4% of the total District waste disposed that year. Quantities of District-generated solid waste passing through Hoffman Road Landfill are expected to continue close to current levels. Since the Hoffman Road Landfill has 42 years of remaining capacity, 22.4% of the District's wastes were projected to be disposed in the landfill.

The Waste Management Evergreen R & D Landfill accepted 155,316 tons of District-generated waste during the reference year, or approximately 22.6% of the total District waste disposed that year. The Evergreen Landfill has 27 years of remaining capacity and was the District's choice of location to have additional quantities of waste disposed if other landfills run out of capacity during the reference year. The Evergreen Landfill because of its location in Wood County makes it an optimum choice to handle additional waste materials during the planning period. The landfill will handle 22.6% of the District's waste through 2020. In 2021, the landfill is projected to handle 50.9% of the District's waste through the remainder of the planning period.

The Republic Vienna Junction Landfill accepted 193,185 tons of District-generated waste during the reference year, or approximately 28.2% of the total District waste disposed that year. The Vienna Junction Landfill has 10 years of remaining capacity, but they have submitted a letter to Monroe County explaining cell expansion efforts in coming years. For the purpose of this plan update, the District has assumed landfill capacity through 2020. Beginning in 2021, wastes disposed at the Vienna Junction Landfill have been projected to be handled through the Waste Management Evergreen Landfill in Wood County, Ohio.

The Carleton Farms Landfill accepted 183,020 tons of District-generated automotive shredder residues during the reference year, or approximately 26.7% of the total District waste disposed that year. The Carleton Farms Landfill has 23 years of remaining capacity. Even though Carleton Farms does not accept other wastes from the District or pay any landfill fees to the District, they are projected to continue to dispose of the District's automotive shredder residue at a 26.7% rate over the planning period.

Future projections by landfill were based on reference year tonnages of District waste. In general, total projected disposal tonnage was multiplied by the percentage of total District disposed waste accepted during the reference year. Percentages used are identified below.

Percent of District Waste Disposed by Landfill, Years 2010 through 2030

	2010-2014	2015-2020	2021-2026	2027-2030
Hoffman Road Landfill	22.41%	22.41%	22.41%	22.41%
Wood County Landfill	0.00%	0.00%	0.00%	0.00%
Waste Mgmt Evergreen R&D Landfill	22.67%	22.67%	50.87%	50.87%
Hancock County Sanitary Landfill	0.00%	0.00%	0.00%	0.00%
BFI Carbon Limestone Sanitary Landfill	0.00%	0.00%	0.00%	0.00%
AM Stericycle/BFI Medical Waste, Inc	0.00%	0.00%	0.00%	0.00%
Sunny Farms Landfill	0.00%	0.00%	0.00%	0.00%
Republic Vienna Junction	28.20%	28.20%	0.00%	0.00%
Carleton Farms	26.72%	26.72%	26.72%	26.72%

Regional Recycling Capacity Analysis

A large network of public and private sector programs, activities, and facilities provides waste reduction and recycling capacity within Lucas County. Section III provides the most complete inventory of these activities during the reference year. Industrial sector waste reduction and recycling occurs solely through the private sector by a large number of established recycling processors and collection vendors.

Regional Composting Capacity Analysis

Yard waste composting in Lucas County is provided through many avenues including private compost sites, municipal and contracted curbside yard waste collection programs and the District's yard waste drop-off collection sites. Since the District continues to generate a large amount of yard waste materials, the District will continue to target yard wastes for diversion from landfill disposal. As the cost of the yard waste collection program continues to increase through the years, the District will change how the program will be run during the next planning period.

As the current District yard waste collection program site contract period closes, the District will evaluate the appropriate program to assure that a licensed location for dropping off yard wastes is available to County residents. The District's evaluation will examine sustainable systems where residents and commercial entities may be required to pay a fee per cubic yard of material dropped off at one or a series of collection sites throughout the County.

Since the District's yard waste collection program handles approximately 53% of the District's yard wastes and program changes during the planning period which will potentially change the program from a free drop-off to a

fee based drop-off for yard waste, it is assumed that a 25% decrease in yard waste volumes will occur as part of the District's program starting in 2011. After 2011, volumes for both the District's program and all other compost/yard waste programs will be projected with a slight decrease on per capita rates in subsequent years (**Table V-1**).

The existing programs and facilities are more than adequate to handle the volumes of composting and yard wastes estimated for the planning period.

Table VI-4A: Waste Management Method – Landfilling

Facilities Used by District	AMDRWL	Remaining Capacity				Tons of SW Managed by Each Facility					
		Years	Data Source	Airspace (CY)							
				Gross	Tons for Waste Placement	2008	2010	2011	2012	2013	2014
In-District Facilities											
Hoffman Road Landfill	1,800	42	[1]	9,246,533	5,451,701	153,513	143,943	142,428	141,060	142,786	144,552
Out-of-District Facilities											
Wood County Landfill	499	18	[1]	1,026,347	567,057	10	9	9	9	9	9
Waste Mgmt Evergreen R&D Landfill	7,500	27	[1]	10,327,815	7,198,487	155,316	145,634	144,101	142,717	144,463	146,250
Hancock County Sanitary Landfill	750	42	[1]	7,626,612	5,147,963	3	3	3	3	3	3
BFI Carbon Limestone Sanitary Landfill	11,000	25	[1]	29,685,424	26,449,713	8	8	7	7	7	8
AM Stericycle/BFI Medical Waste, Inc			[1]			1	1	1	1	1	1
Sunny Farms Landfill	3,000	6	[1]	6,826,112	3,905,219	3	3	3	3	3	3
Out-of-State Facilities											
Allied Vienna Junction	N/A	10	[2]	N/A	N/A	193,185	181,142	179,236	177,514	179,686	181,908
Carleton Farms	N/A	23	[2]	N/A	N/A	183,020	171,611	169,805	168,173	170,231	172,337
TOTAL Landfilled						685,059	642,353	635,593	629,487	637,190	645,070

Table VI-4A: Waste Management Method – Landfilling (con't)

Facilities Used by District	Tons of SW Managed by Each Facility									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District Facilities										
Hoffman Road Landfill	143,897	143,292	142,921	142,549	142,177	141,805	141,233	140,660	140,088	139,515
Out-of-District Facilities										
Wood County Landfill	9	9	9	9	9	9	9	9	9	9
Waste Mgmt Evergreen R&D Landfill	145,590	144,978	144,602	144,226	143,850	143,473	320,625	319,325	318,026	316,726
Hancock County Sanitary Landfill	3	3	3	3	3	3	3	3	3	3
BFI Carbon Limestone Sanitary Landfill	7	7	7	7	7	7	7	7	7	7
AM Stericycle/BFI Medical Waste, Inc	1	1	1	1	1	1	1	1	1	1
Sunny Farms Landfill	-	-	-	-	-	-	-	-	-	-
Out-of-State Facilities										
Allied Vienna Junction	181,085	180,323	179,856	179,388	178,920	178,452	-	-	-	-
Carleton Farms	171,556	170,835	170,392	169,949	169,505	169,062	168,379	167,697	167,014	166,332
TOTAL Landfilled	642,149	639,448	637,791	636,133	634,473	632,812	630,257	627,702	625,147	622,593

Table VI-4A: Waste Management Method – Landfilling (con't)

Facilities Used by District	Tons of SW Managed by Each Facility					
	2025	2026	2027	2028	2029	2030
In-District Facilities						
Hoffman Road Landfill	138,943	138,292	137,641	136,990	136,338	135,686
Out-of-District Facilities						
Wood County Landfill	9	9	-	-	-	-
Waste Mgmt Evergreen R&D Landfill	315,427	313,949	312,480	311,003	309,522	308,043
Hancock County Sanitary Landfill	3	3	3	3	3	3
BFI Carbon Limestone Sanitary Landfill	7	7	7	7	7	7
AM Stericycle/BFI Medical Waste, Inc	1	1	1	1	1	1
Sunny Farms Landfill	-	-	-	-	-	-
Out-of-State Facilities						
Allied Vienna Junction	-	-	-	-	-	-
Carleton Farms	165,649	164,873	164,097	163,321	162,544	161,767
TOTAL Landfilled	620,039	617,133	614,229	611,325	608,415	605,506

Notes:
AMDWRL = Authorized Maximum Daily Waste Receipt Limit
N/A = Not Available
[1] 2008 Ohio Solid Waste Facility Data Report produced by the Ohio Environmental Protection Agency
[2] 2008 Report of Solid Waste Landfilled in Michigan produced by the Michigan Department of Environmental Quality

Table VI-4B: Waste Management Method – Recycling

All Facilities Used by District	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential/Commercial Sources	105,794	105,837	106,103	106,108	106,114	106,122	106,169	106,218	106,268	106,319	106,372
Industrial Sources	227,727	224,015	220,364	216,772	213,239	209,763	206,344	205,890	205,437	204,985	204,534
TOTAL	333,521	329,852	326,467	322,879	319,353	315,885	312,513	312,107	311,704	311,304	310,906

All Facilities Used by District	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Residential/Commercial Sources	106,277	106,182	106,088	105,994	105,902	105,750	105,599	105,448	105,298	105,148
Industrial Sources	203,797	203,064	202,333	201,604	200,879	200,035	199,195	198,358	197,505	196,656
TOTAL	310,074	309,246	308,420	307,599	306,780	305,785	304,794	303,806	302,803	301,804

Sources:
Section III for list of facilities and list of data sources.
Tons of recycling managed for residential/commercial sector – Table V-5A
Tons of recycling managed for industrial sector – Table V-6A

Table VI-4C: Waste Management Method – Composting

Facilities Used by District	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Clean Wood Recycling, Inc. (District Program)	32,784	32,784	24,588	32,703	32,621	32,540	32,459	32,389	32,319	32,250	32,180	32,110
Clean Wood Recycling, Inc. (Add'l Yard Waste)	14,752	14,907	14,870	14,833	14,796	14,759	14,722	14,691	14,659	14,627	14,596	14,564
City of Maumee Leaf Composting	1,726	1,744	1,740	1,735	1,731	1,727	1,723	1,719	1,715	1,711	1,708	1,704
City of Oregon Compost	1,133	1,145	1,142	1,139	1,136	1,134	1,131	1,128	1,126	1,123	1,121	1,119
City of Sylvania	5	5	5	5	5	5	5	5	5	5	5	5
City of Toledo, Division of Forestry	400	404	403	402	401	400	399	398	397	397	396	395
City of Toledo, Curbside Leaf Collection[1]	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Springfield Township Zappone Property	2,828	2,858	2,851	2,844	2,836	2,829	2,822	2,816	2,810	2,804	2,798	2,792
Sylvania Township	300	303	302	302	301	300	299	299	298	297	297	296
Village of Holland	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Village of Waterville	2,370	2,395	2,389	2,383	2,377	2,371	2,365	2,360	2,355	2,350	2,345	2,340
Village of Whitehouse		-	-	-	-	-	-	-	-	-	-	-
Waterville Public Works Facilities	1,014	1,025	1,022	1,020	1,017	1,014	1,012	1,010	1,008	1,005	1,003	1,001
Private Compost/ Yard Waste Facilities	1,969	1,990	1,985	1,980	1,975	1,970	1,965	1,961	1,957	1,953	1,949	1,944
TOTAL	59,281	59,559	51,297	59,345	59,198	59,050	58,903	58,776	58,650	58,523	58,397	58,270

Table VI-4C: Waste Management Method – Composting (con't)

Facilities Used by District	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Clean Wood Recycling, Inc. (District Program)	31,995	31,880	31,765	31,650	31,535	31,402	31,269	31,136	31,003	30,871
Clean Wood Recycling, Inc. (Add'l Yard Waste)	14,512	14,460	14,408	14,355	14,303	14,243	14,183	14,122	14,062	14,002
City of Maumee Leaf Composting	1,698	1,692	1,686	1,680	1,673	1,666	1,659	1,652	1,645	1,638
City of Oregon Compost	1,115	1,111	1,107	1,103	1,099	1,094	1,089	1,085	1,080	1,075
City of Sylvania	5	5	5	5	5	5	5	5	5	5
City of Toledo, Division of Forestry	393	392	391	389	388	386	385	383	381	380
City of Toledo, Curbside Leaf Collection[1]	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.
Springfield Township Zappone Property	2,782	2,772	2,762	2,752	2,742	2,730	2,719	2,707	2,696	2,684
Sylvania Township	295	294	293	292	291	290	288	287	286	285
Village of Holland	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Village of Waterville	2,331	2,323	2,315	2,306	2,298	2,288	2,279	2,269	2,259	2,249
Village of Whitehouse	-	-	-	-	-	-	-	-	-	-
Waterville Public Works Facilities	997	994	990	987	983	979	975	971	967	962
Private Compost/ Yard Waste Facilities	1,937	1,930	1,923	1,916	1,909	1,901	1,893	1,885	1,877	1,869
TOTAL	58,061	57,852	57,644	57,435	57,226	56,985	56,744	56,503	56,262	56,021

Sources:
Section 3 for list of facilities, volumes by facility and list of data sources.

Notes:
[1] City of Toledo leaf collection program volumes were assumed to be included in Clean Wood Recycling and the City of Toledo facility on Elmdale per Section 3.

C. Schedule for Facilities and Programs

Districts are required to submit an implementation schedule according to ORC Section 3734.53(A)(13) for all existing, expanded and new solid waste facilities and for all solid waste recycling, reuse and waste reduction programs that are used to meet the waste reduction, recycling, reuse, and minimization objectives of the state solid waste management plan. **Table VI-5** provides the implementation schedule for all facilities, strategies, programs and activities that will help the District meet their recycling and waste reduction goals.

As part of the solid waste management planning process, the District went through and explicitly quantified how many drop-off locations were actually in operation through-out the District and correctly identified them as urban, rural, commercial and school sites. The number, status and location of these drop-off sites are different than what was originally listed/reported in the 2008 Annual District Report. Many of the school and commercial drop-off sites were not listed in the Annual District Report and several of the sites were re-identified as urban or rural depending on the municipality's population. The below sites are now correctly identified as urban and rural drop-off sites based on their population data and are used in Section 7 to determine the District's access goal.

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Facilities: Landfills				
Hoffman Road Landfill	City of Toledo	The Hoffman Road Landfill has 42 years of remaining capacity and 22.4% of the District's wastes were projected to be disposed in the landfill throughout the planning period.	Ongoing	Ongoing
Wood County Landfill	Wood County	The District is currently sending very little waste to this facility. Landfill has a remaining 18 years left in operation.	Ongoing	Ongoing
Waste Mgmt Evergreen R&D Landfill	Wood County	The Evergreen Landfill has 27 years of remaining capacity. The landfill will handle 22.6% of the District's waste through 2020. In 2021, the landfill is projected to handle 50.9% of the District's waste through the remainder of the planning period.	Ongoing	Ongoing
Hancock County Sanitary Landfill	Hancock County	The District is currently sending very little waste to this facility. Landfill has a remaining 42 years left in operation.	Ongoing	Ongoing
BFI Carbon Limestone Sanitary Landfill	Mahoning County	The District is currently sending very little waste to this facility. Landfill has a remaining 25 years left in operation.	Ongoing	Ongoing
AM Stericycle/BFI Medical Waste, Inc	Geauga-Trumbull SWMD	The District is currently sending very little waste to this facility. Landfill has an unknown number of years left in operation.	Ongoing	Ongoing
Sunny Farms Landfill	Ottawa-Sandusky-Seneca SWMD	The District is currently sending very little waste to this facility. Landfill has a remaining 6 years left in operation.	Ongoing	Ongoing
Republic Vienna Junction	Monroe County, MI	The Vienna Junction Landfill has 10 years of remaining capacity, but they have submitted a letter to Monroe County explaining cell expansion efforts in coming years. The landfill will handle 28.2% of the District's waste through 2020.	Ongoing	Ongoing
Carleton Farms	Lenawee County, MI	The Carleton Farms Landfill has 23 years of remaining capacity and 26.7% of the District's wastes were projected to be disposed in the landfill throughout the planning period.	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Facilities: Transfer Stations				
FCR, Inc (Kuhlman Yard)	City of Toledo	During the reference year, FCR, Inc. was processing the recyclable materials for both the District's drop-off program and the City of Toledo's curbside recycling program. FCR, Inc. was using a cement mixing, sand and gravel location at the Kuhlman Corporation in Toledo, Ohio as a central material storing area before transferring loads of recyclables to their facilities in Ann Arbor, Michigan and Delphos, Ohio. In 2009, the District began to process materials at their own 1011 Matzinger Road facility. The City of Toledo continues to use both FCR and 1011 Matzinger Road facilities.	Ongoing	Ongoing
1011 Matzinger Road	City of Toledo	In 2008, the District acquired a Material Recovery Facility located at 1011 Matzinger Road, which was subsequently upgraded and refurbished. On January 18th 2010, the District entered into a contract with Fondessy Enterprises, Inc. to operate said facility, and to provide material recycling processing and marketing services associated with the collection of recycled materials from the District operated drop-off recycling program.	2009	Ongoing
Facilities: Composting				
District Drop-off Yard Waste Site	Lucas County	During the reference year, the District provided residents with a permanent year-round drop-off collection program at two locations within the District. All residents could dispose of their lawn and yard debris at no charge and with no appointment. As the current yard waste collection site contract period closes, the District will evaluate the appropriate program to assure that a licensed location for dropping off yard wastes is available to County residents. The District's evaluation will examine sustainable systems where residents and commercial entities may be required to pay a fee per cubic yard of material dropped off at one or a series of collection sites throughout the County.	2010	2012

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Strategies, Programs and Activities: Source Reduction				
District Sustainability Program	LCSWMD	See Section 5 for more information.	Ongoing	Ongoing
Recycling and Waste Reduction Education and Outreach	LCSWMD	See Section 5 for more information.	Ongoing	Ongoing
School Education and Outreach Program	LCSWMD	See Section 5 for more information.	Ongoing	Ongoing
Business Recycling and Waste Reduction Assistance Program	LCSWMD	See Section 5 for more information.	Ongoing	Ongoing
Data Reporting Program	LCSWMD	See Section 5 for more information.	Ongoing	Ongoing
Strategies, Programs and Activities: Recycling				
Drop-offs, Buybacks, Haulers, Scrap Yards, Brokers and Other Recycling Facilities	Varies	Section 3 for list of facilities and more information.	Ongoing	Ongoing
District Drop-Off Recycling Program	LCSWMD	See Section 5 for more information. The District is committed to operating at least 6 urban public drop-off locations to satisfy the access standard with the current list of non-subscription curbside communities. Drop-off sites have the potential for expansion, reduction and relocation based on community and volume needs. During this planning period, the District will work to optimize the drop-off collection program and shift the locations of the current private drop-off collection sites to public access locations providing the best residential access to recycling. The District will update their current list of operational drop-off sites each year in the Annual District Report.	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Reference Year Drop-off Sites: Full Service Urban				
Arrowhead Fire Station Dussel Dr.	City of Maumee	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Kroger (Glendale) 5109 Glendale	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Hoffman Landfill Hoffman Road	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Kroger (Jackman) 4925 Jackman Rd	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Kroger (King) 7545 Sylvania Rd.	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Lucas County Fairgrounds 1406 Key St.	City of Maumee	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Maumee Bay State Park N.Curtice Road	City of Oregon	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Monclova Township Albon/Monclova Rds	Monclova Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Kroger (Monroe/Secor) 4533 Monroe	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Pearson Metro Park 4600 Starr	City of Oregon	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Promenade Park Water Street	City of Toledo	Full service urban recycling drop-off collection site – removed as a drop-off site in 2009	2008	2009
Secor Metro Park 10000 W. Central	Spencer Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Springfield Twp Hall 7617 Angola Road	Springfield Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Springfield Fire Station 2 1534 S. Crissey Rd	Springfield Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Springfield Fire Station 3	Springfield Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing

7145 Garden Rd				

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Kroger (Springfield) 1414 Spring Meadows	Springfield Township	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Kroger (Suder) 4633 Suder Ave	City of Toledo	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Village of Waterville 25 N. Second St.	Village of Waterville	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Village of Waterville 621 Farnsworth	Village of Waterville	Full service urban recycling drop-off collection site	Ongoing	Ongoing
Wildwood Metro Park 5100 W. Central	City of Toledo	Full service urban recycling drop -off collection site	Ongoing	Ongoing
Reference Year Drop-off Sites: Full Service Rural				
Village of Harbor View 4421 Bayshore Rd.	Village of Harbor View	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Village of Holland 1245 Clarion	Village of Holland	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Jerusalem Township 9501 State Road 2	Jerusalem Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Oak Opening Metro Park Girdham	Swanton Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Village of Ottawa Hills 2125 Richards	Village of Ottawa Hills	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Providence Township 13344 Perry	Providence Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Providence Metro Park 13205 Rt. 578	Providence Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Richfield Township 3951 Washburn	Richfield Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Spencer Township 630 N. Meilke Road	Spencer Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Swanton Township P. Conway Rd	Swanton Township	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Village of Whitehouse 6625 Providence St.	Village of Whitehouse	Full service rural recycling drop-off collection site	Ongoing	Ongoing
Reference Year Drop-off Sites: Private				
Toledo Sanitation Garage 2411Albion	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Alltel Dussell Drive	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
All Shred 3940 Technology Drive	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
American Canvas South Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Andover Apartments 2555 Eastgate Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Barnes & Noble 4940 Monroe St	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
BAX Global 20A Airport	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Brondes Ford 5545 Secor	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Budget Baths & Overhead Door 5211 Secor Rd	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
City of Toledo 110 Westwood Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
CYO Complex 555 S. Holland -Sylvania	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Dunn Business Center Brown & Curtice Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Fallen Timbers 7711 Stitt Rd Waterville	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Fassett Apartments 605 Fassett St	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Fifth Third Bank 1 Seagate	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Heather Hill Apartments 4835 Heatherdowns	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
House of Emmanuel Angola & Irwin Rd	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC / Toledo Health Dept 635 N. Erie Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Lucas County Garage 701 Adams	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Lucas County Dog Warden 410 S. Erie	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Economic Del / Tmacog 300 Martin L. King Dr.	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Emergency 911 Bldg 2144 Monroe St.	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Lucas County Facilities 1819 Canton Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Family Court Building 429 Michigan & Jackson	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Juvenile Justice 12th Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Road Engineers 2504 S. Detroit Avenue	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Sanitary Engineers 1111 S. McCord Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Lucas County Source 12th Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Vehicle Maint. Garage State Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
LC Wastewater Treatment 5757 North River Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Maritime Plaza 1 Maritime Plaza	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Michaelmas Manor 3260 Schneider Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Moose Lodge	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Mud Hens Washington Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
National Guard 2660 S. Eber	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Oak Shade Grove Seaman Oregon	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Oblate Residences Schneider Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Ohio DOT 1600 Detroit Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Office Furniture Silca Drive	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Owens Corning 1 Owens Corning Parkway	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Perstorp 710 Matzinger Rd	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Ransom & Randolph Briarfield Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Seagate Convention Center	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing

401 Jefferson				

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
SFC Graphics Woodruff	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
St. Charles Hospital 2600 Navarre	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
St. Charles Child Dev 2600 Navarre	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
St. Charles Crest Home	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Sun Oil (Lindy Contractor) Navarre Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Sylvania Country Club	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Team Sports 6144 Merger Drive	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Botanical Gardens 5403 Elmer	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Correctional Facility Central Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Fire Dept Maint Detroit Ave	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Fire Dept Beech Street	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Water Department	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Waterville Sheet Metal	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
William Fund Company 145 Chesterfield Road	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Toledo Zoo 749 Spencer	Lucas County	Private recycling drop-off collection site	Ongoing	Ongoing
Reference Year Drop-off Sites: School				
Alliance Academy 1501 Monroe St.	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Anthony Wayne Schools	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

5967 Finzel Rd				

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Arbor Hills Junior High 5334 Whiteford Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Aurora Academy 541 Utah	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Autism Society of N.W. Ohio 4848 Dorr St.	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Bennett Venture Academy 5130 Bennett Road	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Beverly Elementary 4022 Rugby	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Blessed Sacrament Elem 2216 Castlewood	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Burroughs Elementary 2404 South	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Central Catholic HS 2550 Cherry	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Christ the King Elementary 4100 Harvest Lane	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Clay High School 5665 Seaman Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Coy Elementary Pickle Road	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Crissey Elementary 9220 Geiser Holland	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Crossgates Elementary 3901 Shady Lawn	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
DeVeaux Junior High 2626 Sylvania	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Dorr Elementary 1205 King	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Eisenhower Middle School 331 N. Curtice Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Elmhurst Elementary 4530 Elmhurst	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Emmanuel Baptist 4607 Laskey Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Englewood Peace Academy 1120 Horace	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Fassett Middle School 3025 Starr	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Fort Miami Elementary 2501 River Rd Maumee	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Franciscan Academy 5225 West Alexis Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Gateway Middle School 900 Gibbs Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
GESU 2049 Parkside Blvd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Glendale-Feilbach Elem 2317 Cass Road	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Grove Patterson Academy 3301 Upton	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Hawkins Elementary 5550 W. Bancroft	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Highland Elementary 7720 Erie	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Hillview Elementary 5424 Whiteford	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Holland Elementary 7001 Madison Holland	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Holloway Elementary 6611 Pilliod Holland	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Jackman Elementary 2010 Northover	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Lagrange Elementary 1001 North Erie	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Larchmont Elementary 1515 Slater	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Leverette Middle School 1111 E. Manhattan	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Lial School 5900 Davis	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Longfellow Elementary 4114 Jackman	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Lourdes College 6832 Convent Blvd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Maplewood Elementary 6769 Maplewood	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Maumee H.S. 1147 Saco Maumee	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Maumee Valley Cty Day 1715 S. Reynolds Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
McCord Junior High 4304 McCord Sylvania	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
McKinley Elementary 1901 W. Central	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Meadowvale Elementary 2755 Edgebrook	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Monac Elementary 3845 Clawson Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Northview High School 5403 Silca Dr	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Ottawa Hills Elementary 6145 Hill Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Ottawa Hills High School 2532 Evergreen	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Our Lady of Lourdes 6145 Hill Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Our Lady of Perpetual Help 2255 Central Grove	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Regina Coeli Elementary 600 Regina Parkway	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Reynolds Elem School 5000 Norwich	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Robinson Middle School 1007 Grand Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Rogers High School 5539 Nebraska	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Sacred Heart Catholic 824 Sixth Street	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Scott H.S. 2400 Collingwood Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Shoreland Elementary 5650 Suder	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Southview H.S. 7225 Sylvania	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Springfield H.S. 1470 McCord Holland	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Springfield Middle School 7001 Madison Holland	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
St. Joan of Arc 5950 Heatherdowns Blvd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
St. John's H.S. 5901 Airport Hwy	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
St. John the Baptist 2729 124th Street	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
St. Pius X School 2950 Ilger Ave	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Starr Elementary School 3230 Starr	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Stautzenberger College 1796 Indian Wood Circle	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Stewart Academy 707 Avondale	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Stranahan Elementary 3840 Holland-Sylvania	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Sylvan Elementary 4830 Wickford Dr Sylvania	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Toledo Christian School 2303 Brookford	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Toledo Islamic Academy 5225 W. Alexis	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Toledo Technology Center Woodruff & 12th	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
University of Toledo Main Campus	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
University of Toledo Rocket Stadium	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
University of Toledo Savage Hall	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
University of Toledo Scott Park	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Wayne Trail Elementary 1147 7th Street	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Wernert Elementary 5050 Douglas Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Whiteford Elementary 4708 Whiteford Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Whitmer High 5601 Clegg	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Wildwood Environmental Acad 1546 Dartford	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Wynn Elementary 5224 Bayshore Oregon	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Zion Lutheran Elementary 630 Cuthbert Rd	Lucas County	School recycling drop-off collection site	Ongoing	Ongoing
Reference Year Non-Subscription Curbside Programs				
Non-Subscription Curbside Recycling Programs	Lucas County	See Section 5 for additional information. The District will update any changes in the non-subscription curbside program in the Annual District Report.	Ongoing	Ongoing
City of Maumee	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
City of Oregon	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
City of Sylvania	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
City of Toledo	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
Village of Holland	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
Village of Ottawa Hills	Lucas County	Non-subscription curbside program	Ongoing	Ongoing
Village of Whitehouse	Lucas County	Non-subscription curbside program – program discontinued in 2010	2008	2010
Township of Waterville	Lucas County	Non-subscription curbside program	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Reference Year Subscription Curbside Programs				
Subscription Curbside Recycling Programs	Lucas County	See Section 5 for additional information. The District will update any changes in the subscription curbside program in the Annual District Report.	Ongoing	Ongoing
Village of Waterville	Lucas County	Subscription curbside program	Ongoing	Ongoing
Village of Berkey	Lucas County	Subscription curbside program	Ongoing	Ongoing
Village of Harbor View	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Harding	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Jerusalem	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Monclova	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Providence	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Richfield	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Springfield	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Swanton	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Sylvania	Lucas County	Subscription curbside program	Ongoing	Ongoing
Township of Washington	Lucas County	Subscription curbside program	Ongoing	Ongoing
Village of Whitehouse	Lucas County	Subscription curbside program	2010	Ongoing
Business Recycling and Waste Reduction Assistance Program	LCSWMD	See Section 5 for additional information. During the next planning period, the District will work with the University of Toledo Business Waste Reduction Assistance Program and other partners as appropriate to advance recycling efforts within the commercial and industrial sector. The District will work to develop and electronically send out a waste management advisory bulletin twice a year to small businesses, commercial and industry representatives. The District will expand the use of a short form waste and energy assessments by working with the University in an effort to service more commercial and industrial business entities.	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Special Event Container Loan Program	LCSWMD	The District in conjunction with Keep Toledo/Lucas County Beautiful will continue their container loan program for individuals and organizations where containers can be loaned out for free for the collection of mixed recyclables at special events and festivals.	Ongoing	Ongoing
District Sustainability Program	LCSWMD	The District will continue to support the work of the Toledo-Lucas County Sustainability Commission. The committee will work with the District to increase recycling opportunities to all County buildings that currently do not have recycling services.	2010	2012
Recycling and Waste Reduction Education and Outreach	LCSWMD	The District plans to increase education and outreach efforts to help promote recycling activities and increase recycling rates. The District will work with each community to design specific educational materials to promote and enhance recycling information, outreach and collected volume within each community. The District will continue to produce, publicize and distribute the Recycler's List to promote recycling activities and material outlets throughout the County. The District will expand the breadth of information available via their website to include recycling information for each community, additional avenues for waste reduction and recycling and links to sites with supplemental information.	Ongoing	Ongoing
School Paper Recycling Program	LCSWMD	The District will continue to promote school recycling and will encourage additional schools to establish recycling programs. The District will provide resources and information to schools about how to reduce, reuse, recycle and buy recycled as requested. If during the planning period, the cost of the School Paper Recycling Program exceeds the District's financial capacity, the District will work with the school system to develop a more sustainable solution.	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
School Education and Outreach Program	LCSWMD	The District in partnership with Keep Toledo/Lucas County Beautiful will continue the school education and outreach program during the planning period. The District will continue to provide teacher workshops on the latest solid waste management ideas/techniques, recycling and waste reduction programs, litter prevention and additional salient environmental issues. The District will continue to make available a lending library which is home to a wide variety of environmental education books, videos, environmental education activities and informational brochures.	Ongoing	Ongoing
Community Grant – Recycling Incentive Program	LCSWMD	The District will make funds available to communities to implement new and support existing solid waste reduction and recycling programs that assist the District in meeting the Solid Waste Plan objectives and goals. All communities will have an equal opportunity to apply for the grant funds as long as District criteria are met. Programs that improve the District's achievement of Goal #2 will receive priority funding – consistent with the objectives identified in the District's Municipal Assistance program, combining directed technical assistance with the financial incentive provided by the grants. If during a year within the planning period, the cost of the Community Grant program exceeds the District's financial capacity, the District will place the program on hold until the following year.	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Municipal Assistance Program	LCSWMD	The District is available and provides assistance to all communities within the County on a request basis as communities explore different ways to handle their waste and recycling materials. During the next planning period, the District will make a concerted effort to shift subscription curbside recycling communities to non-subscription curbside service and upgrade recycling services to single stream (with carts, recycling incentives and additional materials) by encouraging every community to provide or make available bundled collection services where residents would receive curbside waste, recycling and/or yard waste services. The District will contact each community annually to identify current collection contracts and when they expire.	2010	Ongoing
Market Development Assistance	LCSWMD	The District will continue to assist local businesses with the development of recycled products through "Market Development Grants" offered through the State of Ohio.	Ongoing	Ongoing
Household Hazardous Waste, Electronics, Scrap Tires and Battery Program	LCSWMD	As the current household hazardous waste collection contract period closes in 2010, the District intends to evaluate how to improve the program while reducing costs and seeking supporting revenues (e.g. grants when available) during the next planning period. To encourage greater individual responsibility for these special waste streams, the District will put additional resources into a) educating residents about non-toxic chemical alternatives to home hazardous chemicals, b) promoting other recycling avenues through local companies and national companies and c) linking with other take-back programs that are offering options directly to consumers. The District may continue to collect household hazardous wastes, scrap tires and lead-acid batteries with a contracted vendor. A user fee may be administered for all household hazardous wastes in	New program evaluation 2010	New program evaluation 2012

		addition to the scrap tires and televisions.		

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Litter Collection Program	LCSWMD	The District in partnership with Keep Toledo/Lucas County Beautiful (KT/LCB) will continue to provide an Adopt-A-Road/Street program for the County.	Ongoing	Ongoing
Data Reporting Program	LCSWMD	During the next planning period, the District will devote additional time and energy to continuously improve their data capturing mechanisms. The District will work to build more transparent and stronger relationships with waste/recycling collection haulers as well as local recycling processors to improve annual data reporting.	Ongoing	Ongoing
Strategies, Programs and Activities: Composting				
District Yard Waste Collection Program	Lucas County	During the reference year, the District provided residents with a permanent year-round drop-off collection program at two locations within the District. All residents could dispose of their lawn and yard debris at no charge and with no appointment. As the current yard waste collection site contract period closes in 2010, the District will evaluate the appropriate program to assure that a licensed location for dropping off yard wastes is available to County residents. The District's evaluation will examine sustainable systems where residents and commercial entities may be required to pay a fee per cubic yard of material dropped off at one or a series of collection sites throughout the County.	New program evaluation 2010	New program evaluation 2012
Private Yard Waste Facilities	Lucas County	See Section 3 for a list of compost facilities	Ongoing	Ongoing
Municipal Yard Waste Programs	Lucas County	See Section 5 for more information	Ongoing	Ongoing
Reference Year Municipal Curbside Yard Waste and/or Leaf Collection Programs				
City of Maumee	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
City of Oregon	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
City of Sylvania	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
City of Toledo	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
Springfield Township	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing

Table VI-5: Implementation Schedule for Facilities, Strategies, Program and Activities – Dates and Descriptions

Name of Facility, Strategy, Program or Activity	Location (County, City/Township)	Description of Program/Facility	Approx. Date When the Following Will Take Place:	
			Operations Begin	Operations Cease
Sylvania Township	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
Village of Holland	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
Village of Waterville	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
Village of Whitehouse	Lucas County	Municipal curbside yard waste and/or leaf collection program	Ongoing	Ongoing
Recycling and Waste Reduction Education and Outreach	LCSWMD	The District will provide technical assistance to municipalities to add curbside yard waste collection into existing or new collection contracts along with bundled waste and recycling services. The District will also promote yard waste collection facilities within the District via their website, publications and flyers for the acceptance of both residential and commercial yard wastes. The District will additionally promote yard waste mulching, backyard composting and other avenues to reduce the amount of yard waste that goes to either the landfill or the District's collection sites.	Ongoing	Ongoing

D. Identification of Facilities

In accordance with ORC Section 3734.53(A)(13)(a), District plans should contain an identification of the solid waste disposal, transfer, resource recovery facilities and recycling activities contained in the plan where solid wastes generated within or transported into the District will be taken for disposal, transfer, resource recovery, or recycling. **Table VI-6** outlines all facilities identified by the District where wastes may be taken for disposal, transfer, resource recovery or recycling.

The facilities listed in **Table VI-6** are currently designated through a contractual agreement between the District and facility operators under agreements and resolutions included in the current plan. Prior to final approval of this plan update, the District will follow procedures in ORC Section 343.014, designating solid waste facilities and recycling activities where no public debt has been issued or is outstanding under Chapter 133, 343 or 6123 of the Ohio Revised Code.

It is the intent of the District to enter into contracts with each designated waste disposal facility (landfill, transfer station or waste processing facility) that seeks the right to accept District solid waste. Such contracts will include, but not be limited to, provisions that the facility will not accept waste that is generated in the District unless the facility collects from the hauler and transfers to the District both a Generation Fee and Contract fee specified in Section 7 and that the facility agrees to not accept waste that is generated in the District if the facility has been informed by the District that the hauler of such waste is not in compliance with District rules as provided for in Section 9 of this plan update.

Table VI-6: Facilities Identified and Current Designations

Facility Name	Location (SWMD, State)	Designated Intended (after 343.014 process)
In-District Landfills		
City of Toledo Hoffman Road Landfill	Lucas County, OH	Yes
EnviroSafe Services Landfill	Lucas County, OH	Yes
Out-Of-District Landfills		
Waste Management Evergreen R & D Landfill	Wood County, OH	Yes
Wood County Landfill	Wood County, OH	Yes
Wyandot Sanitary Landfill	Wyandot, OH	Yes
Allied Ottawa County Landfill	Ottawa-Sandusky-Seneca Joint SWMD	Yes
Allied Williams County Landfill	Defiance-Fulton-Williams-Paulding Joint SWMD	Yes
Hancock County Landfill	Hancock, OH	Yes
Stoney Hollow Recycling & Disposal	Montgomery, OH	Yes
Carbon Limestone Landfill	Mahoning, OH	Yes
Erie County Landfill	Erie, OH	Yes
Sunny Farms Landfill	Ottawa-Sandusky-Seneca Joint SWMD	Yes
Wyandot County Environmental Landfill	Wyandot, OH	Yes
Waste Management Mahoning Landfill	Mahoning, OH	Yes
Republic Pine Grove	Coshocton-Fairfield-Licking-Perry Joint SWMD	Yes
Allied Oakland Marsh/Noble Road Landfill	Richland, OH	Yes
American Landfill	Stark-Tuscarawas-Wayne Joint SWMD	Yes
BFI of Ohio Lorain County Landfill	Lorain, OH	Yes
Out-Of-State Landfills		
Republic Vienna Junction	Monroe, MI	Yes
Transfer Facilities		
1011 Matzinger Road	Lucas County, OH	N/A
Stevens Disposal Transfer Station	Monroe, MI	Yes
FCR, Inc. (Kuhlman's Corporation)	Lucas County, OH	N/A
ARS Refuse Service	Fulton, OH	Yes
Recycling Facilities		
Drop-offs, Buy-backs, Hauler Collections, Scrap Yards, Re-Manufacturers, and Other Recycling Facilities Used by the District (Table III-5)	Varies	N/A
Composting Facilities		
Composting and Yard Waste Management Facilities Used by the District (Table III-6)	Varies	N/A

E. Authorization Statement to Designate

The District is hereby authorized to establish facility designations in accordance with ORC Section 3734.014.

Decisions regarding designation or the granting of a designation waiver shall be made by the District, following a review of the request by the Policy Committee. The process by which the District follows to designate facilities is described in its *Designation Procedure and Evaluation Document*, included in Appendix I. Copies of Resolution Number 96-1513, "Approval of the Lucas SWMD Designation Procedure and Evaluation Document and Resolution of Intent to Designate Solid Waste Facilities and Recycling Activities" and Resolution Number 97-1937, "Authorization for Final Designation of Solid Waste Disposal Facilities" are included in the same appendix.

F. Waiver Process for Undesignated Facilities

Where the District designates facilities, it may grant a waiver to a non-designated entity to provide solid waste disposal, transfer or resource recovery facilities or activities at any time after the plan update is approved and in accordance with the criteria specified in ORC 343.01(I)(2).

The Policy Committee will evaluate each request for designation or waiver based upon, at least, the following general criteria:

- The facility's compatibility with the District's Solid Waste Management Plan.
- The facility's compliance with all rules promulgated by the District and the District's Solid Waste Management Plan.

The full procedure for granting a designation waiver is stated in the District's *Designation Procedure and Evaluation Document*, found in **Appendix I**.

G. Siting Strategy for Facilities

This section outlines the strategy to be used for evaluating proposals for siting solid waste facilities within the District to meet the need for additional disposal and/or processing capacity to serve the District. While the District does not believe it has a capacity concern or will need to consider a landfill siting contingency plan, if the need would arise, the following siting procedures would be followed.

Included in the strategy is a delineation of the functional roles to be performed by the District, the Solid Waste Management District Policy Committee ("Policy Committee")and its operational subcommittees, local governmental jurisdictions and the public. Additionally, the categories of criteria that will be employed to evaluate sites and/or facilities are identified. A Siting Evaluation and Ranking document discussing the criteria more specifically, as well as, how it will be applied to a site or facility during the evaluation process will be available, upon request, at the Solid Waste District offices. Finally, a process of dispute resolution and mediation is outlined and recommended for use in reducing potential conflicts, fostering communication between involved parties and resolving impasses.

The District's siting strategy has been developed to provide a process for evaluating proposed solid waste facilities and the sites upon which they may be constructed. This strategy is not meant to replace current review and evaluation processes conducted by Ohio Environmental Protection Agency, local zoning and planning commissioner, or other state or local agencies. Rather the District's siting strategy is meant to supplement those

reviews by evaluating a proposed facility's conformity with the goals and objectives of the District Solid Waste Management Plan and providing a forum for public participation in the siting process. The District may alter this strategy to assure that it consistently meets these objectives. Such changes in the strategy will be published as part of the District's Siting Evaluation and Ranking document. The evaluation and siting strategy applies to all facilities regardless of ownership, except solid waste facilities sited within the district prior to plan approval. The strategy consists of three components:

- Preliminary site survey;
- Evaluation of proposed sites and requests for designation; and
- Resolving site impasses through mediation

Preliminary Site Analysis

The District will charge the Policy Committee or a special task force formed for such purpose, with responsibility for performing a preliminary site and black-out analysis. The Policy Committee or special task force, in cooperation with Ohio Environmental Protection Agency, the Ohio Department of Natural Resources, the U.S. Army Corps of Engineers, the Soil & Water Conservation Service and the Lucas County Plan Commissions, will identify all areas of the District that for statutory, regulatory, geologic, zoning or other reasons are determined to be "environmentally sensitive areas" and unavailable for construction of a new solid waste facility.

The results of the District's black-out analysis will be presented to the proper legal authorities within the District for adoption and implementation. Additionally, the District may assist local subdivisions, upon request, with developing responsible strategies for siting solid waste facilities within their jurisdictions through the utilization of their zoning and planning authority. This may include the addition of specific solid waste facilities to existing zoning categories, development of special zoning classifications for solid waste facilities, or the requirement of conditional use or special use permits for solid waste facilities.

Information concerning preferred sites identified by local subdivisions and black-out areas will be made available to developers proposing to site solid waste facilities within the District through the District office.

Evaluation of Proposed Sites and Designation Requests

General Requirements

Developers of proposed solid waste facilities within the District must comply with all federal, state and local statutes, regulations and guidance documents governing the siting, construction, expansion or modification of a solid waste facility. Certification of such compliance shall be provided to the District.

- A copy of current state solid waste regulations and other applicable siting criteria is available from the Northwest District Office of Ohio Environmental Protection Agency, 347 N. Dunbridge Road, P.O. Box 466, Bowling Green, Ohio 43402; (419) 352-8461.
- Information on zoning restrictions, building code requirements and special use permits is available through the Toledo/Lucas County Planning Commission, One Government Center #1620, Toledo, Ohio 43604; (419) 245-1200 or the applicable municipality, village or township offices.
- Information on siting or operating licenses required by the Board of Health is available at the Lucas County Board of Health, 635 North Erie Street, Toledo, OH 43604 (419) 213-4100.

District Requirements

As required by the statutes and regulations referred to above, a developer of a solid waste facility may be required to submit a Permit-to-Install (PTI) application to Ohio Environmental Protection Agency for approval prior to construction or modification of the facility. Within 10 days of submission of such PTI to Ohio Environmental Protection Agency, a copy is required to be submitted to the District along with, at least, the following data to support the District's evaluation process. Most of the information listed below is available from the Ohio Department of Natural Resources, Ohio Environmental Protection Agency, the Toledo/Lucas County Planning Commission, the Lucas County Soil and Water Conservation District, the Ohio Historic Preservation Office or the applicable local governmental jurisdiction.

- A description of the site and its location, including property boundaries and their relationship to political subdivisions, highways, roads, and utilities.

- Descriptions of each of the following located within one-half mile of the proposed site:
  - residential, commercial, industrial and institutional buildings;
  - zoning and land use classifications;
  - roads and railroads;
  - floodplains;
  - existing topography including vegetation, rivers, creeks, intermittent streams, lakes, ponds, wetlands, and other surface waters;
  - parks, nature preserves, wildlife areas, scenic rivers and exceptional wildlife habitats; and
  - any other significant features.

- Surface drainage patterns within 500 feet in all directions beyond the facility's borders.

- Location of public and private water supply wells with 1,000 feet in all directions beyond facility boundaries.

Local Zoning and Planning Requirements

The District's Siting Strategy encourages a responsible and effective local community response to zoning and planning issues related to the siting and operation of solid waste facilities within the District. Developers of a proposed solid waste facility must provide certification to the District that such proposed facility is in compliance with the zoning and planning regulations of the local jurisdiction in which it is to be sited.

District Siting Process and Designation Review

The District, the Policy Committee, its applicable operating committees, the Solid Waste Management District staff and the local subdivision where the facility is proposed to be sited will follow a specific review process for the evaluation of a proposed facility. The siting process will consist of an evaluation of the proposed solid waste facility’s compliance with the goals and objectives of the District Solid Waste Management Plan and the District’s siting criteria. District approval of a proposed site will be conditioned upon receipt of certification that a proposed facility has complied with all Ohio Environmental Protection Agency and U.S. Environmental Protection Agency regulations and siting criteria, as well as, local zoning and planning regulations.

The District will charge the Policy Committee or a special task force appointed by the Policy Committee with responsibility for evaluating compliance of a proposed facility with the District's goals, objectives, and siting criteria. The Policy Committee or special task force will include members from the Policy Committee's applicable operating committees, members of the public with appropriate technical expertise, representatives of the Lucas County Health department, representatives from affected communities and landowners. The County's planning

and engineering staff may support the Policy Committee or special task force in its technical review of all pertinent information regarding the facility.

Upon completion of its evaluation, the Policy Committee or special task force shall hold a public hearing to solicit comments on its report and recommendations. The Policy Committee or special task force shall submit its written report, including information obtained from the public hearing, to the Policy Committee within 60 days of receiving the proposed facility's siting information. The Policy Committee shall submit a resolution stating its recommendation to the District within 15 days of receiving the Policy Committee's or special task force's report. The District will, by resolution, make a final determination and notify all relevant parties of its action within 15 days of receipt of the Policy Committee's resolution. The District's resolution shall make reference to any agreement reached and shall direct, upon approval of the facility where required by Ohio Environmental Protection Agency, that the facility be incorporated in the list of designated facilities stipulated in Section 2 of the plan update as long as said facility has entered into the required designation agreement as provided for in the plan update. A copy of the agreement between the facility and the District shall be added to the Appendices of the plan update.

The District may, upon request, extend the time periods within which the various committees or task forces are required to accomplish their review. Such request shall be submitted, in writing, to the District with the reason for the extension clearly stated. All parties to the evaluation process shall be advised whenever such extension of the review process is granted.

The District shall forward its final decision on the siting of each proposed facility and a copy of any agreement entered into with the facility owner to Ohio Environmental Protection Agency. Any agreement entered into with a facility operator shall set forth negotiated limitations placed upon the facility and shall bind all parties. A list of issues subject to negotiation and incorporation into a final agreement may include but not be limited to:

- compensation to any person for substantial economic impacts that result directly from the facility;
- compensation to any affected political subdivision for substantial economic impacts that results directly from the facility, including allowing an affected township or municipality to impose fees under Division (C) of Section 3734.57 of the Ohio Revised Code that are in excess of the twenty-five cents per ton limit;
- reimbursement to the District for reasonable costs incurred in handling negotiation, mediation, and arbitration activities;
- screening and fencing related to the appearance of the facility;
- operational concerns, including noise, dust, debris, odors, and hours of operation;
- traffic flows and patterns resulting from the facility;
- use of the site of the facility after it is closed;
- compliance with any local zoning and planning requirements related to the type of facility being sited;
- compliance with any rule adopted under Division (F) of Section 343.01 of the Ohio Revised Code;
- limits on community liability for actions brought under Comprehensive Environmental Response Compensation, and Liability Act (CERCLA) and the Resource Conservation and Recovery Act (RCRA) at the facility;
- standard reporting requirements by the facility on a format provided by the District;

- overall sizing and capacity of the facility and periodic intake limits; and
- intake and processing grantees for materials generated in the District

Siting Criteria

As described above, the Policy Committee or special task force shall evaluate proposed facilities against engineering, environmental, and socio-economic criteria for siting the facility in an area within the District that has not previously been eliminated under the black-out analysis. The following is a general, non-exclusive list of issues that may be considered in each of these categories for purposes of evaluating a proposed solid waste facility site plan:

- *Engineering Criteria*: May include such considerations as the site location; accessibility to and from the site; site size; site shape; existing zoning; and access to utilities.
- *Environmental Criteria*: May include such considerations as traffic; noise; dust; screening; topography; soils; and geology.
- *Socio-economic Criteria*: May include such considerations as negative neighborhood image; negative impact on property values; public attitude; and access to markets.

Evaluation and Ranking Scheme

A proposed solid waste facility will be evaluated in terms of engineering, environmental and socio-economic criteria. The exact scheme of ranking will depend upon the type of solid waste facility and will be described in the District's Siting Evaluation and Ranking document available, upon request, from the District office. This quantitative scheme will help the District, Policy Committee, and/or special task force examine a specific site according to its suitability. The ranking scheme will be easily understood so people other than the Policy Committee or special task force can perform the method and arrive at similar results. The method will also be replicable in a reasonable amount of time.

The Policy Committee or special task force will begin evaluation of a proposed site by determining which criterion to include on a "must list". The criteria determined to be on the "must list" will not be ranked or weighted by the Policy Committee or special task force. A potential site would have to meet every criterion included on the "must list". Those sites meeting all of the criteria on the "must list" will be further evaluated in terms of other criteria which will be ranked and weighed by the Policy Committee or special task force. For each criterion, this ranking can be a simple low, medium or high ranking, or can easily be converted to a quantitative ranking to show their relative importance.

Resolving Site Impasses Through Mediation

Mediation is a technique widely used by government, industry, labor and management to resolve impasses. This formal process brings together representatives of opposing positions to work through a mediator (or a team of mediators) to resolve their conflicts. The mediator may clarify areas of agreement and disagreement by suggesting possible solutions to the conflict, and recommending methods to implementing the solutions.

Mediation will be utilized in those instances where the siting of a solid waste facility is perceived to present major, unresolvable controversies and the matters at issue are within the authority of the District. In those cases a special effort will be made to actively involve the affected public in a series of open-forums. These meetings will be conducted with the assistance of a skilled mediator. Individuals and groups will be encouraged to voice their

concerns and to discuss them with the Policy Committee or special task force. Increased public involvement and the assistance of a skilled mediator are expected to aid in final resolution of controversies and the selection of a suitable site.

H. Contingencies for Capacity and Program Implementation

The District will annually evaluate each program and strategy to determine its progress in meeting the *State Plan* goals described earlier in Section VI. In the event that a program's progress is deemed insufficient by the District, the District will conduct a feasibility analysis to determine the most economically feasible program modification or the most economically feasible alternative.

Section 7. Measurement of Progress Toward Goals

Districts must use this section to determine progress towards Goal #1 and Goal #2 established in the 2001 Ohio State Solid Waste Management Plan. Although the Ohio Environmental Protection Agency encourages Districts to implement programs which will enable compliance with both of these goals, compliance with only one goal is required. This section requires a District to identify which goal(s) it will meet, and then develop the analysis to demonstrate compliance.

A. District Will Comply with Goal(s) Identified

The purpose of this section is to demonstrate progress towards Goal #1 and Goal #2 established by The 2001 Ohio State Solid Waste Management Plan.

- **Goal #1** – Program access and participation standards for SWMDs: ensure the availability of recycling and waste minimization opportunities to the solid waste district's residents and businesses by the year 2010.

- **Goal #2** – By the year 2010 document the following;

  - (1) 25% waste reduction rate for the residential/commercial sector, and

  - (2) 66% waste reduction rate for the industrial sector

The District's intent is for this Plan Update is to demonstrate compliance with Goal #1 by the year 2010.

Goal #1 – Access and Participation

The Ohio Environmental Protection Agency District Solid Waste Management Format version 3.0 states that SWMDs may demonstrate compliance with Goal #1 by meeting the access and participation standards set forth by that Goal.

As stated in the plan format, each standard is comprised of two elements:

- **Access Standard**: Demonstrate access for each service area for: (1) a minimum of 90% of the population; and (2) the four materials designated as being recycled or reduced in **Table VII-1**.

- **Participation Standard:** Demonstrate compliance with this standard by: (1) developing and implementing an adequate education and awareness program, and (2) evaluating the feasibility of education programs for promotion of financial incentives to encourage increased recycling and/or waste services.

Districts may also demonstrate compliance with Goal #2 by meeting the waste reduction rates for each sector:

- 25% for the residential/commercial sector, and

- 66% for the industrial sector

During the reference year and throughout the planning period, the District achieves both Goal #1 and Goal #2.

B. Demonstration of Compliance with Goal #1

As directed in the Ohio Environmental Protection Agency District Solid Waste Management Format version 3.0, SWMDs must demonstrate that waste reduction, recycling, or minimization programs and activities are available for the Goal Year (2010) for a minimum of seven of the eleven target materials.

The eleven materials in **Table VII-1** have been selected because they are considered highly amenable to recycling and waste reduction by the Ohio Environmental Protection Agency. The District must designate seven materials from this list to demonstrate compliance with Goal #1. Four of the designated seven materials must be identified and used for the residential sector and three materials for the commercial/institutional sector. **Table VII-1** below exhibits the seven materials that the district has targeted.

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

Thirteen Materials Highly Amenable to Recycling	Four Materials Designated for Residential Sector	Three Materials Designated for Comm/Ind Sector	Number of Times Materials is Designated
Corrugated Cardboard		X	1
Office/Mixed Paper		X	1
Newspapers	X		1
Glass Containers			
Steel Containers	X	X	2
Aluminum Containers	X		1
Plastic Containers	X		1
Wood Packaging & Pallets		X	1
Major Appliances			
Textiles			
Scrap Tires			
Lead-Acid Batteries			
Yard Wastes			
Totals	4	4	$\geq$ 8

Demonstration of compliance with Goal #1 by the Goal Year must also include:

- Each sector of waste generators (residential and commercial/industrial) has access to recycling or other alternative management methods for at least four of the minimum seven materials designated by the District; and

- Participation in recycling and waste reduction programs is encouraged through District educational efforts and financial incentives to promote participation.

Residential Sector

This subsection demonstrates compliance with Goal #1 for the residential sector by the Goal Year (2010).

Service Area
Districts are directed to divide their jurisdictions into service areas for the purposes of demonstrating compliance with Goal #1. At a minimum, each county in a District is defined as a service area. Since this District is comprised solely of Lucas County, its boundaries will mark this district's designated service area.

The total population of the service area is 442,897 in the reference year and 444,870 in the Goal Year (2010).

Access
Access is defined as the presence of waste reduction/recycling services or opportunities and other alternative management programs. Opportunities, as defined by the Ohio Environmental Protection Agency, include drop-off recycling, non-subscription curbside, subscription curbside, centralized materials recovery facility service, and any combination of these opportunities.

Districts must demonstrate access for the service area by the Goal Year for:

- a minimum of 90% of the population of the service area; and
- the four materials designated for the residential sector in **Table VI-1**

The Ohio Environmental Protection Agency provides guidelines for determining the population that can be credited towards the access standard based on each type of opportunity. These are summarized below.

Opportunity Type	Population to be Credited
Non-Subscription Curbside: defined as programs that are contracted and paid for a political subdivision, or programs in which the resident does not pay separately for collection	100% of households with service
Subscription Curbside: defined as programs in which the resident contracts directly with a service provider; service paid for by resident	25% of residents with opportunity to subscribe
Full-Service Drop-offs, Urban: defined as open to the public at least 40 hours per week and located in a municipality or township of 5,000 or more. Must handle the four materials designated in **Table VII-1**.	5,000 residents per site
Full-Service Drop-offs, Rural: located in municipality or township of less than 5,000.	2,500 residents per site
Material Recovery Facility: must demonstrate that the facility has an overall recovery rate of 15% or better and that the four materials designated in **Table VII-1** are recovered	100% of residents whose waste is processed by facility

The programs with which the District will demonstrate compliance with Goal #1 by the Goal Year are identified in **Table VII-2**. As required, each program will recover the four materials identified in **Table VII-1** for the residential sector including newspapers, steel containers, aluminum containers and plastic containers.

Table VII-2: Calculation of Access for Residential Sector

Program	Reference Year		Goal Year 2010	
	Number of Households	Population w/Access	Number of Households	Population w/Access
Non-Subscription Curbside				
City of Maumee	5,135	12,529	5,135	12,529
City of Oregon	6,688	16,319	6,688	16,319
City of Sylvania	6,290	15,348	6,290	15,348
City of Toledo[1]	98,237	316,851	98,237	316,851
Village of Holland	606	1,479	606	1,479
Village of Ottawa Hills	1,647	4,019	1,647	4,019
Village of Whitehouse	1,500	3,660	-	-
Township of Waterville	611	1,491	611	1,491
Village of Waterville	3,249	7,928	3,249	7,928
Subscription Curbside				
Township of Jerusalem	1,165	711	1,165	711
Village of Berkey	102	62	102	62
Village of Harbor View	46	28	46	28
Township of Harding	251	153	251	153
Township of Monclova	4,407	2,688	4,407	2,688
Township of Providence	1,054	643	1,054	643
Township of Richfield	457	279	457	279
Township of Spencer	631	385	631	385
Township of Springfield	7,464	4,553	7,464	4,553
Township of Swanton	827	504	827	504
Village of Swanton	10	6	10	6
Township of Sylvania	10,386	6,335	10,386	6,335
Township of Washington	1,024	625	1,024	625
Village of Whitehouse	-	-	1,500	915

Table VII-2: Calculation of Access for Residential Sector (con't)

Program	Reference Year		Goal Year 2010	
	Number of Households	Population w/Access	Number of Households	Population w/Access
Full-Service Urban Drop-offs				
Arrowhead Fire Station Dussel Dr.		5,000		5,000
Kroger (Glendale) - 5109 Glendale		5,000		5,000
Hoffman Landfill Hoffman Road		5,000		5,000
Kroger (Jackman) - 4925 Jackman Rd. 4925		5,000		5,000
Kroger (King) - 7545 Sylvania Rd.		5,000		5,000
Lucas County Fairgrounds 1406 Key St.		5,000		5,000
Maumee Bay State Park N.Curtice Road		5,000		5,000
Monclova Township @ Albon/Monclova Rds		5,000		5,000
Kroger (Monroe/Secor) - 4533 Monroe		5,000		5,000
Pearson Metro Park 4600 Starr		5,000		5,000
Promenade Park Water Street		5,000		-
Secor Metro Park 10000 W. Central		5,000		5,000
Springfield Twp Hall 7617 Angola Road		5,000		5,000
Springfield Fire Station 2 1534 S. Crissey Rd		5,000		5,000
Springfield Fire Station 3 7145 Garden Rd		5,000		5,000
Kroger (Springfield) 1414 Spring Meadows		5,000		5,000
Kroger (Suder) 4633 Suder Ave		5,000		5,000
Village of Waterville 25 N. Second St.		5,000		5,000
Village of Waterville 621 Farnsworth		5,000		5,000
Wildwood Metro Park 5100 W. Central		5,000		5,000
Full-Service Rural Drop-offs				
Village of Harbor View 4421 Bayshore Rd.		2,500		2,500
Village of Holland 1245 Clarion		2,500		2,500
Jerusalem Township 9501 State Road 2		2,500		2,500
Oak Opening Metro Park Girdham		2,500		2,500
Village of Ottawa Hills 2125 Richards		2,500		2,500
Providence Township 13344 Perry		2,500		2,500
Providence Metro Park 13205 Rt. 578		2,500		2,500
Richfield Township 3951 Washburn		2,500		2,500
Spencer Township 630 N. Meilke Road		2,500		2,500
Swanton Township P. Conway Rd		2,500		2,500
TOTAL POPULATION WITH ACCESS		518,149		510,404
% OF LUCAS COUNTY WITH ACCESS		118%		116%

Table VII-2: Calculation of Access for Residential Sector (con't)

Notes:
[1] City of Toledo population was provided by the City of Toledo Planning Commission taken from the US Census data
Number of households from Table III-4.
Population based on 2.44 persons per household for subscription and non-subscription curbside.
Service Area Population from Table V-1

Sample Calculations:
Non-subscription Curbside Population w/Access = # of households x 2.44 persons per household
Subscription Curbside Population w/Access = # of households x 2.44 persons per household x 25% access
Urban Drop-off Access = # of sites x 5,000 persons per site
Rural Drop-off Access = # of sites x 2,500 persons per site
% of Lucas County with Access = Total Population w/Access / Service Area Population (Table V-1)

As demonstrated in **Table VII-2**, the District meets the access standard in the service area by the Goal Year (2010).

Participation

The purpose of this subsection is to demonstrate compliance with the participation standard of Goal #1. To demonstrate compliance, Districts must: 1) incorporate an adequate education and awareness program, and 2) evaluate the feasibility of education programs for promotion of financial incentives to encourage increased recycling and/or waste reduction.

Education and Awareness

The District's program strategies identified in Section 5 meet the requirements for the participation standard by incorporating the following in their program design (**Table V-5A)**:

- Target audiences are identified
- Method of information delivery is identified for:
    - Instructions for using recycling opportunities, including preparation of materials, schedule for the availability of sites/curbside pickup, and the location of drop-off sites
    - An inventory of all recycling opportunities available in the solid waste management district that is updated annually and communicated to residents regularly
- The entity that will implement the strategy is identified
- Measurement methods to be used for tracking success in education efforts, and
- Mechanisms to enforce the message.

Districts are also required to prepare an inventory of recycling opportunities available in the District that is updated annually and communicated to residents on a regular basis. The District plans on using their website, using the District's phone lines, publishing and distributing sources of recycling information in community areas, as well as working with local municipalities to publish recycling information in local newsletters and newspapers to educate the residents on the recycling opportunities within the District. The District also plans on continuing to prepare their annual brochure called "The Recycler's List" with all known recyclers and materials accepted identified and distributing it on an annual basis.

The District will work to develop and electronically send out a waste management advisory bulletin twice a year to elected community members, service directors/recycling coordinators and industry representatives outlining important developing solid waste issues and solid waste events associated with waste reduction, recycling, composting, yard waste management, scrap tires, electronics, household hazardous waste and other miscellaneous solid waste issues. The District will also look for opportunities to place information on community access outlets (television and radio) as well as provide press releases to local media and other press outlets regarding District featured events and ongoing programs. The District will continue to provide recycling education and outreach information and presentations to schools, community groups, block watch groups, and other civic/non-profit organizations. The District will also continue to promote recycling at festivals, special events and other public/community events. The District will also look to expand their educational strategies through social media presence with tools such as FaceBook, Linked In, Twitter, blogging and Google Adwords.

Financial Incentives
The District's program strategies identified in Section 5 incorporate many features that provide financial incentives for increased recycling and waste reduction. These features, described in more detail in Section 5, include Municipal Assistance, Market Development Assistance and Community Grant – Recycling Incentive Program.

The District is available to provide assistance to all communities within the County as communities explore different ways to handle their waste and recycling materials. The District provides technical assistance and expertise with pilot pay-as-you-throw programs, bundled collection contracting (waste, recycling and/or yard waste), franchise opportunities and ordinance standardization as well as a wide range of recycling and waste reduction concepts and programs.

The District will make funds available (if available in the budget) to communities to implement new and support existing solid waste reduction and recycling programs that assist the District in meeting the Solid Waste Plan objectives and goals – specifically Goal #2.

Finally, the District will continue to evaluate and assess grant opportunities to provide financial incentives to residents to recycle.

Commercial/Institutional Sector
The purpose of this subsection is to demonstrate compliance with the access and participation standards of Goal #1 with respect to the commercial/institutional sectors.

Service Area
As stated above, the boundaries of this single-county district will serve as one service area.

Access
In order to meet the access standard for the commercial/institutional sector, Districts must demonstrate that four of the seven materials are targeted for the commercial/institutional sector are identified in **Table VII-1** including corrugated cardboard, office/mixed paper, steel containers and wood packaging and pallets.

Additionally, a District must demonstrate at least one of the following collection options for the service area:

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

The District meets each one of these options through private sector scrap yards and haulers providing collection and recycling for the four targeted materials. These entities and the materials they accept are identified **Table III-5.** A list of solid waste and recycling haulers is available in **Table III-10.**

Participation and Education and Awareness

Districts must demonstrate that education and awareness strategies targeted at the commercial/institutional sector are in place for each program used to meet the access and participation standards. The specific programs are described in **Table V-5** and **Table V-5A.**

Targets for Reduction and Recycling

Districts intent on showing compliance with Goal #1, as this District has, must still show progress towards the waste reduction/recycling rates of Goal #2 for the residential/commercial sector and the industrial sector.

Residential/Commercial

The District demonstrates a 25% waste reduction rate in the residential/commercial sector by the year 2010 after meeting the access and participation standards of Goal #1.

Waste reduction rate for the residential/commercial sector during the reference year was 20.61%. As shown in **Table VII-3**, the District has targeted a rate of 24% by year 2010. The District's waste reduction rate will slightly increase to 24.37% by the year 2030 mainly due to recycling awareness during the planning period. The strategies outlined in Section 5 are intended to allow the District to sustain these targets.

Industrial

The District's program strategies for the industrial sector, identified in Section 5, will also allow the District to accomplish the 50% waste reduction rate required to demonstrate compliance with Goal #2. **Table VII-4**, exhibits waste reduction rates for the industrial sector throughout the planning period.

The District has an industrial sector waste reduction rate of 73.94% for each year of the planning period from 2010 through 2030. The strategies outlined in Section 5 are intended to allow the district to sustain these targets.

Total District Solid Waste

Based on the targets established for the residential/commercial and industrial sectors above, the District has established target waste reduction rates for the total district waste stream. **Table VII-5**, exhibits total waste reduction rates throughout the planning period. The District has a total waste reduction rate of 35.78% during the reference year which will slightly increase over the planning period to 37.14% in 2030. The strategies outlined in Section 5 are intended to allow the District to sustain these targets.

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

Year	R	C	NC	I	A	RA	DL	TWR	P	WRR	PCWR
Reference (2008)	87,159	59,281	-	-	-	-	564,159	146,440	440,256	20.61%	1.82
2010	105,794	59,559	-	-	-	-	523,615	165,353	442,563	24.00%	2.05
2011	105,837	51,297	-	-	-	-	518,259	157,133	444,870	23.27%	1.94
2012	106,103	59,345	-	-	-	-	513,534	165,449	443,770	24.37%	2.04
2013	106,108	59,198	-	-	-	-	522,599	165,305	442,670	24.03%	2.05
2014	106,114	59,050	-	-	-	-	531,819	165,165	441,570	23.70%	2.05
2015	106,122	58,903	-	-	-	-	530,218	165,025	440,470	23.74%	2.05
2016	106,169	58,776	-	-	-	-	528,804	164,946	439,370	23.78%	2.06
2017	106,218	58,650	-	-	-	-	527,388	164,868	438,426	23.82%	2.06
2018	106,268	58,523	-	-	-	-	525,971	164,791	437,482	23.86%	2.06
2019	106,319	58,397	-	-	-	-	524,552	164,716	436,538	23.90%	2.07
2020	106,372	58,270	-	-	-	-	523,132	164,642	435,594	23.94%	2.07
2021	106,277	58,061	-	-	-	-	520,971	164,338	434,650	23.98%	2.07
2022	106,182	57,852	-	-	-	-	518,810	164,034	433,092	24.02%	2.08
2023	106,088	57,644	-	-	-	-	516,648	163,731	431,534	24.06%	2.08
2024	105,994	57,435	-	-	-	-	514,484	163,429	429,976	24.11%	2.08
2025	105,902	57,226	-	-	-	-	512,321	163,127	428,418	24.15%	2.09
2026	105,750	56,985	-	-	-	-	509,868	162,735	426,860	24.19%	2.09
2027	105,599	56,744	-	-	-	-	507,415	162,343	425,062	24.24%	2.09
2028	105,448	56,503	-	-	-	-	504,962	161,951	423,264	24.28%	2.10
2029	105,298	56,262	-	-	-	-	502,508	161,560	421,466	24.33%	2.10
2030	105,148	56,021	-	-	-	-	500,054	161,169	419,668	24.37%	2.10

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

Notes and Sample Calculations:
R-Tons of residential/commercial waste source reduced and recycled as shown in Table VI-2
C - Tons of residential/commercial waste composted as shown in Table VI-2
NC - Tons of non-compostable residential/commercial waste
I - Tons of residential/commercial waste incinerated as shown in Table VI-2
A - Tons of residential/commercial incinerator ash and bypass waste produced
RA - Tons of residential/commercial incinerator ash recycled
DL - Tons of residential/commercial waste disposed in landfills as shown in Table VI-2
TWR - Tons of residential/commercial waste reduction (Sample Calculation - R+(C-NC)+(I-A)+RA=TWR)
P - District population as shown in Table V-1
WRR - Residential/commercial waste reduction rate as a percentage (Sample Calculation - TWR/(DL+TWR)=WRR
PCWR - Residential/commercial waste reduction per capita in pounds per person per day
(Sample Calculation - TWR/P*2000 lbs per ton/365 days per year = PCWR)

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

Year	R	C	NC	I	A	RA	DL	TWR	P	WRR	PCWR
Reference (2008)	235,337	-	-	-	-	-	82,934	235,337	440,256	73.94%	2.93
2010	227,727	-	-	-	-	-	80,252	227,727	442,563	73.94%	2.82
2011	224,015	-	-	-	-	-	78,944	224,015	444,870	73.94%	2.76
2012	220,364	-	-	-	-	-	77,657	220,364	443,770	73.94%	2.72
2013	216,772	-	-	-	-	-	76,392	216,772	442,670	73.94%	2.68
2014	213,239	-	-	-	-	-	75,146	213,239	441,570	73.94%	2.65
2015	209,763	-	-	-	-	-	73,922	209,763	440,470	73.94%	2.61
2016	206,344	-	-	-	-	-	72,717	206,344	439,370	73.94%	2.57
2017	205,890	-	-	-	-	-	72,557	205,890	438,426	73.94%	2.57
2018	205,437	-	-	-	-	-	72,397	205,437	437,482	73.94%	2.57
2019	204,985	-	-	-	-	-	72,238	204,985	436,538	73.94%	2.57
2020	204,534	-	-	-	-	-	72,079	204,534	435,594	73.94%	2.57
2021	203,797	-	-	-	-	-	71,819	203,797	434,650	73.94%	2.57
2022	203,064	-	-	-	-	-	71,561	203,064	433,092	73.94%	2.57
2023	202,333	-	-	-	-	-	71,303	202,333	431,534	73.94%	2.57
2024	201,604	-	-	-	-	-	71,047	201,604	429,976	73.94%	2.57
2025	200,879	-	-	-	-	-	70,791	200,879	428,418	73.94%	2.57
2026	200,035	-	-	-	-	-	70,493	200,035	426,860	73.94%	2.57
2027	199,195	-	-	-	-	-	70,197	199,195	425,062	73.94%	2.57
2028	198,358	-	-	-	-	-	69,903	198,358	423,264	73.94%	2.57
2029	197,505	-	-	-	-	-	69,602	197,505	421,466	73.94%	2.57
2030	196,656	-	-	-	-	-	69,303	196,656	419,668	73.94%	2.57

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

Notes and Sample Calculations:
R-Tons of industrial waste source reduced and recycled as shown in Table VI-3
C - Tons of industrial waste composted as shown in Table VI-3
NC - Tons of non-compostable industrial waste
I - Tons of industrial waste incinerated as shown in Table VI-3
A - Tons of industrial incinerator ash and bypass waste produced
RA - Tons of industrial incinerator ash recycled
DL - Tons of industrial waste disposed in landfills as shown in Table VI-3
TWR - Tons of industrial waste reduction (Sample Calculation - R+(C-NC)+(I-A)+RA=TWR)
P - District population as shown in Table V-1
WRR - Industrial waste reduction rate as a percentage (Sample Calculation - TWR/(DL+TWR)=WRR
PCWR - Industrial waste reduction per capita in pounds per person per day
(Sample Calculation - TWR/P*2000 lbs per ton/365 days per year = PCWR

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

Year	R	C	NC	I	A	RA	DL	TWR	P	WRR	PCWR
Reference (2008)	322,495	59,281	-	-	-	-	685,179	381,777	440,256	35.78%	4.75
2010	333,521	59,559	-	-	-	-	642,353	393,080	442,563	37.96%	4.87
2011	329,852	51,297	-	-	-	-	635,593	381,149	444,870	37.49%	4.69
2012	326,467	59,345	-	-	-	-	629,487	385,813	443,770	38.00%	4.76
2013	322,879	59,198	-	-	-	-	637,190	382,077	442,670	37.49%	4.73
2014	319,353	59,050	-	-	-	-	645,070	378,403	441,570	36.97%	4.70
2015	315,885	58,903	-	-	-	-	642,149	374,788	440,470	36.85%	4.66
2016	312,513	58,776	-	-	-	-	639,448	371,289	439,370	36.73%	4.63
2017	312,107	58,650	-	-	-	-	637,791	370,757	438,426	36.76%	4.63
2018	311,704	58,523	-	-	-	-	636,133	370,228	437,482	36.79%	4.64
2019	311,304	58,397	-	-	-	-	634,473	369,701	436,538	36.82%	4.64
2020	310,906	58,270	-	-	-	-	632,812	369,176	435,594	36.84%	4.64
2021	310,074	58,061	-	-	-	-	630,257	368,135	434,650	36.87%	4.64
2022	309,246	57,852	-	-	-	-	627,702	367,098	433,092	36.90%	4.64
2023	308,420	57,644	-	-	-	-	625,147	366,064	431,534	36.93%	4.65
2024	307,599	57,435	-	-	-	-	622,593	365,033	429,976	36.96%	4.65
2025	306,780	57,226	-	-	-	-	620,039	364,006	428,418	36.99%	4.66
2026	305,785	56,985	-	-	-	-	617,133	362,770	426,860	37.02%	4.66
2027	304,794	56,744	-	-	-	-	614,229	361,537	425,062	37.05%	4.66
2028	303,806	56,503	-	-	-	-	611,325	360,309	423,264	37.08%	4.66
2029	302,803	56,262	-	-	-	-	608,415	359,065	421,466	37.11%	4.67
2030	301,804	56,021	-	-	-	-	605,506	357,824	419,668	37.14%	4.67

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

Notes and Sample Calculations:
R-Tons of waste source reduced and recycled as shown in Table VI-1
C - Tons of waste composted as shown in Table VI-1
NC - Tons of non-compostable waste
I - Tons of waste incinerated as shown in Table VI-1
A - Tons of incinerator ash and bypass waste produced
RA - Tons of incinerator ash recycled
DL - Tons of waste disposed in landfills as shown in Table VI-1
TWR - Tons of waste reduction (Sample Calculation - R+(C-NC)+(I-A)+RA=TWR)
P - District population as shown in Table V-1
WRR - Waste reduction rate as a percentage (Sample Calculation - TWR/(DL+TWR)=WRR)
PCWR - Waste reduction per capita in pounds per person per day
(Sample Calculation - TWR/P*2000 lbs per ton/365 days per year = PCWR)

Section 8. Cost & Financing of Plan Implementation

Costs and methods of financing plan implementation are presented in this Section. The methods of financing the plan is summarized below, relying on funding sources that will include:

- Generation Fee
- Contract Disposal Fee
- Rates and Charges
- User Fees
- Grants, Loans and Community Program Sponsors

In order to fund the programs outlined in Section 5 the District will enter into contracts with all designated disposal facilities (landfills, transfer stations and waste processing plants) for the purpose of providing sufficient revenues during the planning period.

In accordance with those contracts, the District will continue to levy a generation fee at its current level of $2.20 per ton, for the remainder of the planning period. As well, the District will continue to levy a contract disposal fee, currently at $1.00 per ton, in accordance with ORC 343.022, increasing that contract fee to $3.00 per ton in 2012. After Plan Update adoption, the District may evaluate the amount of that fee, as part of its annual budgeting cycle, and may consider reducing it, depending on the District's success in securing other revenue sources, following all required procedures of the Ohio Revised Code for establishing and adjusting solid waste management district fees for openness, transparency, inclusiveness, and public input and approval.

In accordance to the Ohio Revised Code 343.08, the District will implement in 2014 a basic services rate and charge at an expected value of $5 on all improved parcels, estimated to raise $645,000 per year based on 129,000 parcels paying the fee (after factoring in a 20% reduction from the 161,249 improved parcels on record at the time - for parcels that do not pay). The basic services rate and charge is for core District programming that has application across all sectors within the District (residential, commercial, industrial) and includes county-wide recycling education and outreach, solid waste management planning, municipal technical assistance and administration, assurance of adequate commingled recycling processing capacity and any other service that ensures the District is in compliance with all state Solid Waste Management Plan requirements.

Given the volatility and uncertainty in volumes of District waste to be delivered to designated disposal facilities, the District is authorized to generate other revenue streams as provided for in this section. The District will monitor closely any future revisions to the State of Ohio's Solid Waste Management Plan and solid waste legislation to ensure that there will be no negative impacts to the funding ability of the District under these designated disposal facility agreements and the funding mechanisms that they enable, coupled with the authorization to generate other revenues as provided for in this plan.

The District will continue to utilize grants, low-interest loans and community program sponsors to support programs necessary for the implementation of the Plan Update. The District historically has utilized the Ohio Department of Natural Resources-Division of Recycling and Litter Prevention grant programs, Ohio Department of Development-Scrap Tire Loan and Grant program, Ohio Environmental Education Fund and other Federal grant programs.

The District will annually monitor program costs and make any adjustments to non-essential programs in order the maintain compliance with the goals and objectives outlined in Section 5. Non-essential programs for the purpose of this Plan Update are defined as programs that contribute the least to the participation and accessibility standard

(Goal #1) or the least amount of tonnage under the numerical goal. The District reserves the right under this Plan Update to make line item adjustments or program cuts as a method of balancing its annual budget.

Although the reference year for the Plan Update is 2008, Section 8 is based on the District's 2009 and 2010 final actual revenues and expenditures and 2011 budgeted expenditures and revenues. The District felt these figures provided a better representation of what the District has experienced with the economic downturn and creates a better foundation for future planning period projections.

C. Funding Mechanisms and Amount of Money Generated

District Disposal Fees (ORC Section 3734.57 B)

The District does not collect any disposal fees in accordance with ORC Section 3734(B). In order to maintain consistency with the table numbering format of the Ohio Environmental Protection Agency Solid Waste Management Plan Format version 3.0, **Table VIII-1** is presented below.

The District collects a contract disposal fee as described in ORC Section 343.022; estimated revenues from this disposal fee are presented under Other Funding Mechanisms in **Table VIII-2** and **Table VIII-2A**, below.

In accordance with House Bill 100 enacting Section 3734.576 of the Ohio Revised Code, the District has an established policy and procedure to exempt automotive shredder residue (ASR) from the district's generation fee and contract fee. The District has identified all procedures for the exemption of this ASR in **Appendix G**. With the approval of this Plan Update, the District continues the exemption of this ASR per resolution #07-03 as approved by the Policy Committee.

Table VIII-1: District Disposal Fee Schedule and Revenue Generated

	Fee Schedule ($/ton)							
	In-District	Out-of-District	Out-of-State	Amount of District Waste to be Disposed (tons) [1]	Amount of District Exempt Waste to be Disposed (tons) [2]	Amount of District Auto Shredder Residue Waste to be Disposed (tons)	Total Waste of Which Fees Can be Applied (tons)	Total District Fee Revenues
2008	$ -	$ -	$ -	685,179	38,086	188,301	458,792	$ -
Reference (2009)	$ -	$ -	$ -	685,179	38,400	188,301	458,478	$ -
2010	$ -	$ -	$ -	642,353	38,485	188,301	415,567	$ -
2011	$ -	$ -	$ -	635,593	38,390	188,301	408,902	$ -
2012	$ -	$ -	$ -	629,487	38,295	188,301	402,891	$ -
2013	$ -	$ -	$ -	637,190	38,200	188,301	410,689	$ -
2014	$ -	$ -	$ -	645,070	38,105	188,301	418,665	$ -
2015	$ -	$ -	$ -	642,149	38,009	188,301	415,839	$ -
2016	$ -	$ -	$ -	639,448	37,928	188,301	413,220	$ -
2017	$ -	$ -	$ -	637,791	37,846	188,301	411,644	$ -
2018	$ -	$ -	$ -	636,133	37,764	188,301	410,067	$ -
2019	$ -	$ -	$ -	634,473	37,683	188,301	408,489	$ -
2020	$ -	$ -	$ -	632,812	37,601	188,301	406,910	$ -
2021	$ -	$ -	$ -	630,257	37,466	188,301	404,490	$ -
2022	$ -	$ -	$ -	627,702	37,331	188,301	402,070	$ -
2023	$ -	$ -	$ -	625,147	37,197	188,301	399,650	$ -
2024	$ -	$ -	$ -	622,593	37,062	188,301	397,230	$ -
2025	$ -	$ -	$ -	620,039	36,927	188,301	394,810	$ -
2026	$ -	$ -	$ -	617,133	36,772	188,301	392,061	$ -
2027	$ -	$ -	$ -	614,229	36,616	188,301	389,312	$ -
2028	$ -	$ -	$ -	611,325	36,461	188,301	386,563	$ -
2029	$ -	$ -	$ -	608,415	36,305	188,301	383,809	$ -
2030	$ -	$ -	$ -	605,506	36,149	188,301	381,056	$ -

Source:
[1] Total Waste Disposed Table VI-1
[2] Total District Exempt Waste Table V-4

Sample Calculation:
[3] Total Waste to Which Fees Can Be Applied = Total Waste Disposed – Total Exempt Waste

Generation Fees (ORC Section 3734.573)

The District will continue to collect the generation fee of $2.20 that it levies on each ton of District waste disposed at designated disposal facilities (landfills, transfer stations and waste processing plants) continuing throughout the planning period.

Table VIII-2: Generation Fee Schedule and Revenues

	Generation Fee	Total Waste of Which Fees Can Be Applied (tons)	Total Generation Fee Revenue
2008	$2.00	458,792	$917,584.00
Reference (2009)	$2.00	458,478	$916,956.29
2010	$2.20	415,567	$914,246.31
2011	$2.20	408,902	$899,584.66
2012	$2.20	402,891	$886,359.67
2013	$2.20	410,689	$903,516.42
2014	$2.20	418,665	$921,062.62
2015	$2.20	415,839	$914,845.40
2016	$2.20	413,220	$909,083.42
2017	$2.20	411,644	$905,616.99
2018	$2.20	410,067	$902,147.99
2019	$2.20	408,489	$898,676.39
2020	$2.20	406,910	$895,202.18
2021	$2.20	404,490	$889,877.50
2022	$2.20	402,070	$884,553.25
2023	$2.20	399,650	$879,229.41
2024	$2.20	397,230	$873,905.99
2025	$2.20	394,810	$868,582.99
2026	$2.20	392,061	$862,533.24
2027	$2.20	389,312	$856,485.37
2028	$2.20	386,563	$850,439.39
2029	$2.20	383,809	$844,379.93
2030	$2.20	381,056	$838,322.50
Sample Calculation: Total Generation Fee Revenue = Generation Fee x Total Waste of Which Fees Can Be Applied (Table VIII-1)			

Other Funding Mechanisms

The District currently levies a contract disposal fee of $1.00 per ton in accordance with ORC 343.022. After Plan Update adoption, the District will increase the contract disposal fee to $3.00 (effective January 1, 2012). After Plan Update adoption, the District may evaluate, as part of its annual budgeting cycle, the dollar amount of the contract disposal fee and may consider reducing the contract disposal fee, depending on the availability of other revenue streams, following all required procedures of the Ohio Revised Code for establishing and adjusting solid waste management district fees for openness, transparency, inclusiveness, and public input and approval. For illustration purposes only, the $3.00 per ton fee is shown in **Table VIII-2A** beginning in 2012 and each remaining year of the planning period.

Table VIII-2A: Contract Fee (ORC 343.022) Fee Schedule and Revenues

	Contract Fee	Total Waste of Which Fees Can Be Applied (tons)	Total Fee Revenue
2008	$1.00	307,956	$307,955.94
Reference (2009)	$1.00	458,478	$458,478.15
2010	$1.00	415,567	$415,566.50
2011	$1.00	408,902	$408,902.12
2012	$3.00	402,891	$1,208,672.28
2013	$3.00	410,689	$1,232,067.85
2014	$3.00	418,665	$1,255,994.48
2015	$3.00	415,839	$1,247,516.46
2016	$3.00	413,220	$1,239,659.20
2017	$3.00	411,644	$1,234,932.25
2018	$3.00	410,067	$1,230,201.80
2019	$3.00	408,489	$1,225,467.81
2020	$3.00	406,910	$1,220,730.25
2021	$3.00	404,490	$1,213,469.32
2022	$3.00	402,070	$1,206,208.97
2023	$3.00	399,650	$1,198,949.20
2024	$3.00	397,230	$1,191,689.99
2025	$3.00	394,810	$1,184,431.35
2026	$3.00	392,061	$1,176,181.69
2027	$3.00	389,312	$1,167,934.60
2028	$3.00	386,563	$1,159,690.08
2029	$3.00	383,809	$1,151,427.18
2030	$3.00	381,056	$1,143,167.05

Notes:

- The District currently has in place a contract disposal fee of $1.00 that is levied in accordance with ORC 343.022. After Plan Update Adoption, the District will increase that to $3.00 and may evaluate, as part of its annual budgeting cycle, potential reduction of that fee, following all required procedures of the Ohio Revised Code.

- In 2008, the $1.00 contract fee is shown for all tons except the City of Toledo tons delivered to the Hoffman Road Landfill where a rebate agreement is in place.

Summary of District Revenues

Given the volatility and uncertainty in volumes of District waste to be delivered to designated disposal facilities, the District is authorized to generate other revenue streams as provided for in this section, the total value of which is included in **Table VIII-3** below. Sources of other revenue include:

- The District may include implementation of user fees on specific District services (e.g. HHW, yard waste, private recycling drop-offs, etc.), the amounts of which are to be determined as part of the County's ongoing budget development cycle for the District.

- As a source of other revenues after Plan Update approval by the State of Ohio, the District is authorized to use rates and charges as provided and authorized by this plan, the amounts of which are to be determined and established by resolution with appropriate public notice and public hearing process (consistent with requirements of ORC Section 343.08) as part of the County's ongoing budget development cycle for the District. ORC Section 343.08 provides the District with the ability to charge each person, municipal corporation, township, or other political subdivision for services provided by the District. Rates may be charged via direct bill to residents, utility bills, property tax or assessment to communities. The District must provide an appropriate level of service (directly or via contract) and has the ability to charge different rates for different services.

- As a source of other revenues the District has signed contracts for processing its recyclables that provide for a revenue share/rebate to the District based on the market value of the recyclables after processing fees.

- As a means of reducing the need for additional other revenues, increased tonnage delivered to designated disposal facilities (above the projections used in the plan), may generate additional revenues above the forecast and reduce the need for substitute revenues.

- As a final means of reducing the need for additional other revenues, the District may be required to make adjustments to program services as a means of cost control/cost reduction as required to maintain a sustainable program financially, while still meeting the minimum requirements for compliance with the Plan Update and the 2001 State of Ohio Solid Waste District Management Plan standards. Should these cost control/cost reduction steps be necessary, the District will provide alternative means of service delivery to meet minimal plan requirements. For example, education and outreach on self-service opportunities for HHW, yard waste, used tires, etc. could be provided if the District needs to reduce the availability of District funded services for handling these materials.

Based on the revenue sources outlined above, total district revenues through the planning period are outlined in **Table VIII-3.** See table notes for assumptions used to prepare recycling revenues and tire fee reimbursement columns.

The program includes a regional MRF that will begin operation in 2014. The regional MRF is expected to be owned by the District (possibly in partnership with the City of Toledo), jointly financed as a public/private development with a private sector partner for MRF design, build and operation. The District is expected to finance a portion of the capital cost of the MRF, with the balance of capital coming from the private and or public partnerships. The arrangements for operation of the MRF will include provisions for sharing revenues from the sale of the processed recyclable materials between the private operator and the District. The revenue share to the District would provide a source of funding for the interest and principal on any District financing for their capital commitment to the MRF and for any renewal and replacement of the equipment in the MRF over time. The projected tonnage to

be processed by the MRF would include all non-subscription residential recycling tons as shown in **Table V-5A**.as well as the District's own drop-off tonnage, also documented in **Table V-5A**. Calculations for the District's share of recycling market revenues are based on long term averages for commodity values from the typical mix of recyclable materials in a single stream recycling system, minus a projection for the average operating costs (with profit) that a private operating partner would charge the District under such an arrangement (where the facility is publicly owned), resulting in a net revenue share to the District. That revenue share is calculated in the following table at $28/ton throughout the planning period. Recycling markets do fluctuate so the average commodity revenue at the MRF will vary based on the market - which will move this revenue share upward and downward over time. Market risk will be factored into the implementation of the single stream MRF, but is shown here as a consistent value over the course of the planning period based on long-term average value trends.

The program includes District management of the curbside waste and recycling collection system for the City of Toledo, charging a fee for that service to all of the estimated 95,500 eligible households at a start-up rate projected to be $7.70/household/month in September of 2011 when the service starts, increasing at 3% thereafter. These values are based on price proposals received by the District in response to a District RFP released early in 2011. Other communities may be added to the system under similar arrangements during the course of the planning period.

To maintain the sustainability of core services in the program, the District will implement in 2014 a basic services rate and charge with an expected value of $5 on all improved parcels, estimated to raise $645,000 per year based on 129,000 parcels paying the fee (after factoring in a 20% reduction from the 161,249 improved parcels on record at the time - for parcels that do not pay). The basic services rate and charge is for core District programming that has application across all sectors within the District (residential, commercial, industrial) and includes county-wide recycling education and outreach, solid waste management planning, municipal technical assistance and administration, assurance of adequate commingled recycling processing capacity and any other service that ensures the District is in compliance with all state Solid Waste Management Plan requirements.

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

Reference (2008)	Type of Revenue Mechanism and Amount Generated								
	Generation Fees	Contract Fee [1]	Recycling Revenues [2]	Tire Fee Reimburse	Grants	OmniSource Settlement	Other Revenues [3]	Other Revenues [4]	Total Revenues Generated
2009	$917,184.85	$458,592.42				$100,000.00			$1,475,777.27
2010	$914,246.31	$415,566.50	$274,335.32	$56,590.05		$100,000.00		$11,900.32	$1,772,638.50
2011	$899,584.66	$408,902.12	$306,000.00	$0.00		$100,000.00	$2,941,400.00	$10,000.00	$4,665,886.77
2012	$886,359.67	$1,208,672.28	$306,000.00	$0.00			$8,824,200.00	$0.00	$11,225,231.95
2013	$903,516.42	$1,232,067.85	$306,000.00	$0.00			$9,088,926.00	$0.00	$11,530,510.27
2014	$921,062.62	$1,255,994.48	$1,042,772.07	$0.00			$9,361,593.78	$645,000.00	$13,226,422.94
2015	$914,845.40	$1,247,516.46	$1,047,540.51	$0.00			$9,642,441.59	$645,000.00	$13,497,343.96
2016	$909,083.42	$1,239,659.20	$1,052,720.15	$0.00			$9,931,714.84	$645,000.00	$13,778,177.61
2017	$905,616.99	$1,234,932.25	$1,057,941.94	$0.00			$10,229,666.29	$645,000.00	$14,073,157.46
2018	$902,147.99	$1,230,201.80	$1,063,206.13	$0.00			$10,536,556.28	$645,000.00	$14,377,112.19
2019	$898,676.39	$1,225,467.81	$1,068,512.99	$0.00			$10,852,652.96	$645,000.00	$14,690,310.15
2020	$895,202.18	$1,220,730.25	$1,073,862.78	$0.00			$11,178,232.55	$645,000.00	$15,013,027.76
2021	$889,877.50	$1,213,469.32	$1,077,727.85	$0.00			$11,513,579.53	$645,000.00	$15,339,654.21
2022	$884,553.25	$1,206,208.97	$1,081,614.28	$0.00			$11,858,986.91	$645,000.00	$15,676,363.42
2023	$879,229.41	$1,198,949.20	$1,085,522.01	$0.00			$12,214,756.52	$645,000.00	$16,023,457.14
2024	$873,905.99	$1,191,689.99	$1,089,450.97	$0.00			$12,581,199.22	$645,000.00	$16,381,246.16
2025	$868,582.99	$1,184,431.35	$1,093,401.08	$0.00			$12,958,635.19	$645,000.00	$16,750,050.61
2026	$862,533.24	$1,176,181.69	$1,096,753.01	$0.00			$13,347,394.25	$645,000.00	$17,127,862.19
2027	$856,485.37	$1,167,934.60	$1,100,116.86	$0.00			$13,747,816.08	$645,000.00	$17,517,352.91
2028	$850,439.39	$1,159,690.08	$1,103,492.41	$0.00			$14,160,250.56	$645,000.00	$17,918,872.45
2029	$844,379.93	$1,151,427.18	$1,106,879.43	$0.00			$14,585,058.08	$645,000.00	$18,332,744.62
2030	$838,322.50	$1,143,167.05	$1,110,277.69	$0.00			$15,022,609.82	$645,000.00	$18,759,377.05

Table VIII-3B: Summary of Revenue Generated and Mechanisms Used

Sources:
Generation Fees: Table VIII-2
Contract Fees: Table VIII-2A

Notes:
[1] After Plan Update approval by the State of Ohio, the District may evaluate annually the dollar amount of the contract fee and adjust that fee, as a contingency funding mechanism, as part of its annual budgeting cycle for the Solid Waste District.
[2] The District receives recycling revenue rebates from their Matzinger Road Recycling Facility, operated under contract by a third party processor. The amounts shown are average revenue received in prior years, projected through 2013. In 2014, a regional MRF would begin operating and handle all the District's recyclables as well as recyclables delivered by the City of Toledo curbside program, as well as other contracted curbside recycling programs. The MRF would be owned by the District (possibly in partnership with the City), jointly financed through a public/private development agreement for the design, build and operation, with net recycling revenues rebates of $28/ton over costs/partner fees, which would then cover the District's cost of financing their portion of the MRF capital expenses. Market revenue rebates will vary but are shown here based on long term average recycling market value trends.
[3] Beginning in the 9th month of 2011, the District would begin to manage the curbside waste and recycling collection system for the City of Toledo, charging a fee for that service to all of the estimated 95,500 eligible households at a start-up rate projected to be $7.70/mo/household, and increasing at 3% after. Other communities may be added to the system under similar arrangements during the course of the planning period
[4] As a source of other revenues the District will implement in 2014 a basic services rate and charge of $5.00 on all improved parcels, estimated to raise $645,000 per year based on 129,000 parcels paying the fee (after deductions for parcels that do not pay). Counts of improved parcels may change during the course of the planning period but no trends can be predicted based on available information - so the 129,000 improved parcel count remains constant during the planning period. As a source of other revenues the District may elect to implement user fees on specific services to be determined on an annual basis (e.g. HHW, yard waste, private recycling drop-offs, etc.) as part of its ongoing budget development cycle.

In the year 2008, the District acquired and completed improvements to its District offices, operations center and recycling processing facility at 1011 Matzinger Road, Toledo Ohio. **Table VIII-4A** identifies the loan secured by the District through Ohio Water Development Authority for the purposes of financing this purchase.

Table VIII-4A: Anticipated Loans Secured by the District

Year	Loans Obtained by District		Interest Rate	Remaining Length of Loan (years)	Annual Debt Service
	Lending Institution	Outstanding Loan Amount			
2008	Lucas County OWDA	$1,194,030.00	5.65%		
Reference (2009)	Lucas County OWDA	$1,160,329.95	5.65%	20	$101,000.00
2010	Lucas County OWDA	$1,124,725.84	5.65%	19	$101,000.00
2011	Lucas County OWDA	$1,087,110.10	5.65%	18	$101,000.00
2012	Lucas County OWDA	$1,047,369.07	5.65%	17	$101,000.00
2013	Lucas County OWDA	$1,005,382.67	5.65%	16	$101,000.00
2014	Lucas County OWDA	$961,024.04	5.65%	15	$101,000.00
2015	Lucas County OWDA	$914,159.15	5.65%	14	$101,000.00
2016	Lucas County OWDA	$864,646.39	5.65%	13	$101,000.00
2017	Lucas County OWDA	$812,336.16	5.65%	12	$101,000.00
2018	Lucas County OWDA	$757,070.40	5.65%	11	$101,000.00
2019	Lucas County OWDA	$698,682.13	5.65%	10	$101,000.00
2020	Lucas County OWDA	$636,994.92	5.65%	9	$101,000.00
2021	Lucas County OWDA	$571,822.38	5.65%	8	$101,000.00
2022	Lucas County OWDA	$502,967.59	5.65%	7	$101,000.00
2023	Lucas County OWDA	$430,222.51	5.65%	6	$101,000.00
2024	Lucas County OWDA	$353,367.33	5.65%	5	$101,000.00
2025	Lucas County OWDA	$272,169.83	5.65%	4	$101,000.00
2026	Lucas County OWDA	$186,384.68	5.65%	3	$101,000.00
2027	Lucas County OWDA	$95,752.66	5.65%	2	$101,000.00
2028	Lucas County OWDA	$940.00	5.65%	1	$101,000.00
2029					
2030					

In the Plan Program, development of the single stream MRF by the District, expected to be a public/private partnership under a design/build/operate contract, takes place in 2013 for startup in 2014. The District proposes to fund its share of the capital costs under an Ohio Water Development Authority financing (or substitute if needed). As shown in **Table VIII-4B**, the District intends to secure sufficient funds to cover its portion of the financing cost, anticipated to be in the form of a $6 million dollar loan with a proposed ten-year payment plan for those funds at 5% annual interest. At the conclusion of this initial term, a new $3 million dollar loan is planned to cover equipment replacement and upgrade, again at a ten-year payment plan. The capital amounts and payment plans shown below are provided for illustrative purposes only and may be repaid at a quicker or slower rate based on the terms of the financing available at the that time.

Table VIII-4B: Anticipated Loans Secured by the District

Year	Loans Obtained by District		Interest Rate	Remaining Length of Loan (years)	Annual Debt Service
	Lending Institution	Outstanding Loan Amount			
2008					
Reference (2009)					
2010					
2011					
2012					
2013	Lucas County OWDA	$6,000,000.00	5.00%	10	$0.00
2014	Lucas County OWDA	$5,525,553.51	5.00%	9	$777,027.45
2015	Lucas County OWDA	$5,026,833.44	5.00%	8	$777,027.45
2016	Lucas County OWDA	$4,502,597.90	5.00%	7	$777,027.45
2017	Lucas County OWDA	$3,951,541.48	5.00%	6	$777,027.45
2018	Lucas County OWDA	$3,372,291.96	5.00%	5	$777,027.45
2019	Lucas County OWDA	$2,763,406.94	5.00%	4	$777,027.45
2020	Lucas County OWDA	$2,123,370.20	5.00%	3	$777,027.45
2021	Lucas County OWDA	$1,450,587.96	5.00%	2	$777,027.45
2022	Lucas County OWDA	$743,384.91	5.00%	1	$777,027.45
2023	Lucas County OWDA	$0.00	5.00%	0	$777,027.45
2024	Lucas County OWDA	$3,000,000.00	5.00%	10	$0.00
2025	Lucas County OWDA	$2,762,776.76	5.00%	9	$388,513.72
2026	Lucas County OWDA	$2,513,416.72	5.00%	8	$388,513.72
2027	Lucas County OWDA	$2,251,298.95	5.00%	7	$388,513.72
2028	Lucas County OWDA	$1,975,770.74	5.00%	6	$388,513.72
2029	Lucas County OWDA	$1,686,145.98	5.00%	5	$388,513.72
2030	Lucas County OWDA	$1,381,703.47	5.00%	4	$388,513.72

D. Costs of Plan Implementation

The purpose of this subsection is to outline anticipated costs of implementing the programs and strategies described in this Plan Update. In **Table VIII-5** on the following pages, costs of plan implementation for the planning period are outlined for the following program categories:

- District Administration
- District Overall Program Management
- Drop-off Collection Program
- Collection Contract Management
- Matzinger Road Facility Operation
- Business Recycling Program
- District Education, Outreach, Promotion
- HHW, Electronics, Tire and Battery Collection Program
- Yard Waste Collection Program

The following District activities are funded through existing programs. Note that a separate Cost of Implementation Schedule was not prepared for these programs as no additional funding is allocated.

- Special Event Container Loan Program
- District Sustainability Program
- School Paper Recycling Program
- School Education and Outreach Program
- Municipal Assistance Program
- Data Reporting Program
- Market Development Assistance Program
- Litter Collection Program
- Disaster Debris Management Plan
- Community Grant – Recycling Incentive Program

The following are not operated by the District, but are included as part of this section.

- Subscription Curbside Recycling Programs
- Non-Subscription Curbside Recycling Programs – Except as District Contract Management Service

Table VIII-5: Cost of Plan Implementation: District Administration

District Administration	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries & Fringe Benefits[1]	$52,606	$305,313	$224,445	$231,300	$238,400	$245,700	$253,300	$261,100	$269,200	$277,600	$286,200
Office Supplies/Postage[1]	$1,520	$4,101	$8,000	$8,300	$8,600	$8,900	$9,200	$9,500	$9,800	$10,100	$10,500
Training/Prof. Dev./Memberships[1]	$3,077	$6,641	$4,000	$4,200	$4,400	$4,600	$4,800	$5,000	$5,200	$5,400	$5,600
Telephones[1]	$7,264	$6,870	$7,500	$7,800	$8,100	$8,400	$8,700	$9,000	$9,300	$9,600	$9,900
Equipment Maintenance	$5,666	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Building Supplies	$3,241	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Office Equipment & Furniture[1]	$4,681	$844	$869	$900	$1,000	$1,100	$1,200	$1,300	$1,400	$1,500	$1,600
Utilities[1]	$4,319	$15,000	$15,000	$15,800	$16,600	$17,500	$18,400	$19,400	$20,400	$21,500	$22,600
Rent [1]	$16,500	$-	$5,000	$5,200	$5,400	$5,600	$5,800	$6,000	$6,200	$6,400	$6,600
TOTAL	$97,354	$338,768	$264,814	$273,500	$282,500	$291,800	$301,400	$311,300	$321,500	$332,100	$343,000

District Administration	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries & Fringe Benefits[1]	$295,000	$304,100	$313,500	$323,100	$332,900	$343,100	$353,600	$364,400	$375,600	$387,100	$398,900
Office Supplies/Postage[1]	$10,900	$11,300	$11,700	$12,100	$12,500	$12,900	$13,300	$13,700	$14,200	$14,700	$15,200
Training/Prof. Dev./Memberships[1]	$5,800	$6,000	$6,200	$6,400	$6,600	$6,800	$7,100	$7,400	$7,700	$8,000	$8,300
Telephones[1]	$10,200	$10,600	$11,000	$11,400	$11,800	$12,200	$12,600	$13,000	$13,400	$13,900	$14,400
Equipment Maintenance	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Building Supplies	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Office Equipment & Furniture[1]	$1,700	$1,800	$1,900	$2,000	$2,100	$2,200	$2,300	$2,400	$2,500	$2,600	$2,700
Utilities[1]	$23,800	$25,000	$26,300	$27,700	$29,100	$30,600	$32,200	$33,900	$35,600	$37,400	$39,300
Rent [1]	$6,800	$7,100	$7,400	$7,700	$8,000	$8,300	$8,600	$8,900	$9,200	$9,500	$9,800
TOTAL	$354,200	$365,900	$378,000	$390,400	$403,000	$416,100	$429,700	$443,700	$458,200	$473,200	$488,600

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Staff Salaries & Fringe Benefits - includes the administrative salaries of the District Manager (10% of time), Office Manager (40% of time) and Clerk (10% of time). Includes all the fringe benefits of all District employees.

Office Supplies & Postage – includes all supplies related to the office (i.e. postage, pens, letterhead, paper, etc.)

Training, Professional Development & Memberships – includes the professional development, conference fees, mileage for staff, memberships and publications.

Telephones – includes cost of all office phone expenses (local and long distance)

Utilities – includes the cost of utilities as they relate to the offices at Matzinger Road

Table VIII-5: Cost of Plan Implementation: District Overall Program Management

District Overall Program Management	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries & Fringe Benefits [1]	$89,873	$52,460	$58,537	$60,400	$62,400	$64,400	$66,500	$68,600	$70,800	$73,100	$75,500
KT/LCB Contract - Administrative Share	$4,500	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000
Advertising/Printing [1]	$5,084	$250	$14,000	$14,500	$15,000	$15,500	$16,000	$16,500	$17,000	$17,600	$18,200
Data Management (ReTRAC)	$5,045	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Lucas County Indirect Cost Recovery [1]	$52,198	$76,245	$67,506	$69,600	$71,700	$73,900	$76,200	$78,500	$80,900	$83,400	$86,000
Reserve for Grant Match [1]		$-	$20,000	$75,000	$77,300	$79,700	$82,100	$84,600	$87,200	$89,900	$92,600
Consulting Contract [1]	$90,838	$50,000	$50,000	$51,500	$53,100	$54,700	$56,400	$58,100	$59,900	$61,700	$63,600
TOTAL	$247,538	$188,955	$220,043	$281,000	$289,500	$298,200	$307,200	$316,300	$325,800	$335,700	$345,900

District Overall Program Management	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries [1]	$77,900	$80,400	$82,900	$85,500	$88,200	$91,000	$93,900	$96,800	$99,900	$103,100	$106,300
KT/LCB Contract - Administrative Share	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000
Advertising/Printing [1]	$18,800	$19,400	$20,000	$20,600	$21,300	$22,000	$22,700	$23,400	$24,200	$25,000	$25,800
Data Management (ReTRAC)	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Lucas County Indirect Cost Recovery [1]	$88,600	$91,300	$94,100	$97,000	$100,000	$103,000	$106,100	$109,300	$112,600	$116,000	$119,500
Reserve for Grant Match [1]	$95,400	$98,300	$101,300	$104,400	$107,600	$110,900	$114,300	$117,800	$121,400	$125,100	$128,900
Consulting Contract [1]	$65,600	$67,600	$69,700	$71,800	$74,000	$76,300	$78,600	$81,000	$83,500	$86,100	$88,700
TOTAL	$356,300	$367,000	$378,000	$389,300	$401,100	$413,200	$425,600	$438,300	$451,600	$465,300	$479,200

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Staff Salaries - includes the administrative salaries of the District Manager (40% of time), Office Manager (40% of time) and Clerk (50% of time).

KT/LCB Contract – includes 10% of the Keep Toledo/Lucas County Beautiful contract to help cover the administrative components of the Districts programs.

Advertising/Printing – includes fees as they relate to advertising and printing for the District's programs

Lucas County Indirect Cost Recovery – includes fees that the District pays to the County's Auditor office, human resources and treasurer.

Reserve for Grant Match Requirements – includes money set aside to provide as match funds for grants which the District intends to apply for

Consulting Contract – includes money set aside for District consulting fees

Table VIII-5: Cost of Plan Implementation: Drop-off Collection Program

Drop-off Collection Program	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries[1]	$530,716	$325,612	$372,545	$383,900	$395,600	$407,600	$420,100	$432,900	$446,000	$459,600	$473,500
Truck Purchase [1]	$237,170	$247,420	$-	$-	$270,000	$278,100	$286,500	$295,100	$-	$-	$322,464
Truck Fuel [2]	$171,735	$52,283	$150,000	$200,000	$210,000	$220,500	$231,600	$243,200	$255,400	$268,200	$281,700
Truck Maint. & Repairs [1]	$82,055	$79,932	$118,000	$168,000	$173,100	$178,300	$183,700	$189,300	$195,000	$200,900	$207,000
Vehicle Insurance [1]	$-	$2,520	$2,595	$2,700	$2,800	$2,900	$3,000	$3,100	$3,200	$3,300	$3,400
Decals/Signage [1]	$3,093	$164	$169	$200	$300	$400	$500	$600	$700	$800	$900
At Road Tracking System [1]	$1,922	$2,089	$-	$-	$-	$-	$-	$-	$-	$-	$-
Collection Containers [1]	$15,923	$-	$-	$75,000	$77,300	$79,700	$82,100	$84,600	$87,200	$89,900	$92,600
Supplies [1]	$5,023	$7,082	$7,500	$7,800	$8,100	$8,400	$8,700	$9,000	$9,300	$9,600	$9,900
Telephone Charges [1]	$3,316	$2,283	$2,500	$2,600	$2,700	$2,800	$2,900	$3,000	$3,100	$3,200	$3,300
Other [1]	$315	$1,900	$14,415	$14,900	$15,400	$15,900	$16,400	$16,900	$17,500	$18,100	$18,700
TOTAL	$1,051,267	$721,284	$667,725	$855,100	$1,155,300	$1,194,600	$1,235,500	$1,277,700	$1,017,400	$1,053,600	$1,413,464

Table VIII-5: Cost of Plan Implementation: Drop-off Collection Program

Drop-off Collection Program	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries[1]	$487,900	$502,800	$518,100	$533,900	$550,100	$566,800	$584,000	$601,700	$619,900	$638,700	$658,200
Truck Purchase [1]	$332,200	$342,200	$352,500	$-	$-	$385,186	$396,800	$408,800	$421,100	$-	$-
Truck Fuel [2]	$295,800	$310,600	$326,200	$342,600	$359,800	$377,800	$396,700	$416,600	$437,500	$459,400	$482,400
Truck Maint. & Repairs [1]	$213,300	$219,700	$226,300	$233,100	$240,100	$247,400	$254,900	$262,600	$270,500	$278,700	$287,100
Vehicle Insurance [1]	$3,600	$3,800	$4,000	$4,200	$4,400	$4,600	$4,800	$5,000	$5,200	$5,400	$5,600
Decals/Signage [1]	$1,000	$1,100	$1,200	$1,300	$1,400	$1,500	$1,600	$1,700	$1,800	$1,900	$2,000
At Road Tracking System [1]	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Collection Containers [1]	$95,400	$98,300	$101,300	$104,400	$107,600	$110,900	$114,300	$117,800	$121,400	$125,100	$128,900
Supplies [1]	$10,200	$10,600	$11,000	$11,400	$11,800	$12,200	$12,600	$13,000	$13,400	$13,900	$14,400
Telephone Charges [1]	$3,400	$3,600	$3,800	$4,000	$4,200	$4,400	$4,600	$4,800	$5,000	$5,200	$5,400
Other [1]	$19,300	$19,900	$20,500	$21,200	$21,900	$22,600	$23,300	$24,000	$24,800	$25,600	$26,400
TOTAL	$1,462,100	$1,512,600	$1,564,900	$1,256,100	$1,301,300	$1,733,386	$1,793,600	$1,856,000	$1,920,600	$1,553,900	$1,610,400

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

[2] Annual escalation rate of 5% for inflation for fuel

Staff Salaries - includes the administrative salaries of the District Manager (35% of time), Office Manager (15% of time), Clerk (40% of time) and all the collection drivers for the drop-off program.

Truck Purchase – includes the cost of purchasing new front load collection vehicles – replacing the fleet of four vehicles every six years.

Decals & Signage – includes the fees for the design, creation and printing of dumpster signs.

Collection Containers – includes the cost of purchasing and refurbishing recycling dumpsters.

Supplies – includes all supplies needed for the collection drivers and vehicles.

Telephone Charges – includes the cell phone charges for the collection drivers.

Table VIII-5: Cost of Plan Implementation: Contracted Curbside Collection Program

This is the curbside collection contract management role that the District would take on, providing services to communities within the District (starting with the City of Toledo as shown in this budget) with a pass through fee arrangement.

Curbside Collection Contract Management	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Curbside Outreach/Education (District/KTLCB) [1]	$-	$-	$-	$50,000	$51,500	$53,045	$54,636	$56,275	$57,964	$59,703	$61,494
Contracted Curbside Collection - all Costs [1]	$-	$-	$2,941,400	$8,824,200	$9,088,926	$9,361,594	$9,642,442	$9,931,715	$10,229,666	$10,536,556	$10,852,653
Consulting	$-	$-	$-	$-	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000
Other	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL		$-	$2,941,400	$8,874,200	$9,175,426	$9,449,639	$9,732,078	$10,022,990	$10,322,630	$10,631,259	$10,949,147

Curbside Collection Contract Management	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Curbside Outreach/Education (District/KTLCB) [1]	$63,339	$65,239	$67,196	$69,212	$71,288	$73,427	$75,629	$77,898	$80,235	$82,642	$85,122
Contracted Curbside Collection - all Costs [1]	$11,178,233	$11,513,580	$11,858,987	$12,214,757	$12,581,199	$12,958,635	$13,347,394	$13,747,816	$14,160,251	$14,585,058	$15,022,610
Consulting	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000
Other	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$11,276,571	$11,613,818	$11,961,183	$12,318,968	$12,687,487	$13,067,062	$13,458,024	$13,860,714	$14,275,486	$14,702,700	$15,142,731

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Curbside Outreach/Education – Provides for additional outreach and education that will be part of the services, using the services of KTLCB and/or other service providers.

Contracted Curbside Collection – Toledo curbside collection beginning 9/2011 for 95,500 households @ $7.70 per month cost by contractor - increasing at 3% per year

Consulting Services – includes money set aside for District consulting fees as they relate to providing the curbside collection services

Table VIII-5: Cost of Plan Implementation: Matzinger Road Facility Operation

The Plan Program adds the single stream MRF to the Matzinger Road operation (or other location) covering the District's portion of the debt service in the following budget. All other costs for operating the single stream MRF are absorbed by the private company contracted to design/build/operate the facility.

Matzinger Road Facility Operation	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries [1]	$11,316	$7,712	$8,354	$8,700	$9,000	$9,300	$9,600	$10,000	$10,400	$10,800	$11,200
Contracted Labor/Operat. Mgmt.	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Consulting Services [1]	$56,146	$-	$-	$50,000	$75,000	$75,000	$50,000	$51,500	$53,100	$54,700	$56,400
Building Debt Service	$100,913	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000
SS MRF Debt Service		$-	$-	$-	$-	$777,027	$777,027	$777,027	$777,027	$777,027	$777,027
Equipment/Loan Debt Service	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Equipment Renting	$3,495	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Facility Eqpt./Repairs/Mnt. [1]	$58,306	$8,240	$15,000	$15,500	$16,000	$16,500	$17,000	$17,600	$18,200	$18,800	$19,400
Building Insurance [1]	$-	$5,000	$8,000	$8,300	$8,600	$8,900	$9,200	$9,500	$9,800	$10,100	$10,500
Utilities [1]	$47,000	$-	$25,000	$25,800	$26,600	$27,400	$28,300	$29,200	$30,100	$31,100	$32,100
Site Maintenance Supervision		$-	$-								
Other	$13,456	$200	$206	$300	$400	$500	$600	$700	$800	$900	$1,000
TOTAL	$290,632	$122,152	$157,560	$209,600	$236,600	$1,015,627	$992,727	$996,527	$1,000,427	$1,004,427	$1,008,627

Table VIII-5: Cost of Plan Implementation: Matzinger Road Facility Operation

Matzinger Road Facility Operation	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries [1]	$11,600	$12,100	$12,600	$13,100	$13,600	$14,100	$14,600	$15,100	$15,700	$16,300	$16,900
Contracted Labor/Operat. Mgmt	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Consulting Services [1]	$58,100	$59,900	$61,700	$63,600	$65,600	$67,600	$69,700	$71,800	$74,000	$76,300	$78,600
Building Debt Service	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$101,000	$-	$-
SS MRF Debt Service	$777,027	$777,027	$777,027	$777,027	$-	$388,514	$388,514	$388,514	$388,514	$388,514	$388,514
Equipment/Loan Debt Service	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Equipment Renting	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Facility Eqpt./Repairs/Maint. [1]	$20,000	$20,600	$21,300	$22,000	$22,700	$23,400	$24,200	$25,000	$25,800	$26,600	$27,400
Building Insurance [1]	$10,900	$11,300	$11,700	$12,100	$12,500	$12,900	$13,300	$13,700	$14,200	$14,700	$15,200
Utilities [1]	$33,100	$34,100	$35,200	$36,300	$37,400	$38,600	$39,800	$41,000	$42,300	$43,600	$45,000
Site Maintenance Supervision											
Other	$1,100	$1,200	$1,300	$1,400	$1,500	$1,600	$1,700	$1,800	$1,900	$2,000	$2,100
TOTAL	$1,012,827	$1,017,227	$1,021,827	$1,026,527	$254,300	$647,714	$652,814	$657,914	$663,414	$568,014	$573,714

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Staff Salaries - includes the administrative salaries of the District Manager (10% of time) and Office Manager (5% of time).

Consulting Services – includes money set aside for District consulting fees as they relate to developing the single stream MRF

Building Debt Service – includes the payment of the OWDA loan for the building purchase

SS MRF Debt Services – includes information in Table VIII-4b Single Stream MRF Design/Build/Operate Financed at $6 million at 5% 10 years. Replacement financing after 10 years @ $3 million at 5% 10 years. All operating costs and balance of required capital costs are covered by the design/build/operate private contractor.

Facility Equipment, Repairs and Maintenance – includes all costs in maintaining the Matzinger Road facility.

Utilities – include all utility costs as they relate to the Matzinger Road facility.

Table VIII-5: Cost of Plan Implementation: Business Recycling Program

Business Recycling Program	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries[1]	$2,001	$2,727	$3,043	$3,200	$3,300	$3,400	$3,600	$3,800	$4,000	$4,200	$4,400
UT Contract	$122,159	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000
Consulting Services		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$124,160	$77,727	$78,043	$78,200	$78,300	$78,400	$78,600	$78,800	$79,000	$79,200	$79,400

Business Recycling Program	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries[1]	$4,600	$4,800	$5,000	$5,200	$5,400	$5,600	$5,800	$6,000	$6,200	$6,400	$6,600
UT Contract	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000	$75,000
Consulting Services	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$79,600	$79,800	$80,000	$80,200	$80,400	$80,600	$80,800	$81,000	$81,200	$81,400	$81,600

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Staff Salaries – includes the administrative salaries of the District Manager (5% of time).

UT Contract – includes the contract fee for the University of Toledo to execute the business recycling program.

Table VIII-5: Cost of Plan Implementation: District Education, Outreach and Promotion

District Education, Outreach, Promotion	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries	$5,313	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Education/Promotion Materials	$463	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising Grant	$107,000	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
KT/LCB Contract	$40,500	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000
Residential/Community Outreach	$16,200	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000
Commercial/Industrial Outreach	$4,050	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000
School/Teacher Outreach	$20,250	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000
Consulting Contract		$-	$-		$-	$-	$-	$-	$-	$-	$-
Community Grant-Toledo City Reimb	$-	$141,577	$126,000	$126,000	$-	$-	$-	$-	$-	$-	$-
Sustainability Commission	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000
Festival Recycling Program	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Adopt-A-Road	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$183,275	$261,577	$246,000	$246,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000

Table VIII-5: Cost of Plan Implementation: District Education, Outreach and Promotion

District Education, Outreach, Promotion	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Education/Promotion Materials	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising Grant	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
KT/LCB Contract	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000	$90,000
Residential/Community Outreach	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000	$35,000
Commercial/Industrial Outreach	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000
School/Teacher Outreach	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000	$45,000
Consulting Contract	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Community Grant-Toledo City Reimb.	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Sustainability Commission	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000
Festival Recycling Program	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Adopt-A-Road	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000

Notes:
KT/LCB Contract – includes 90% of the Keep Toledo/Lucas County Beautiful contract to help cover the education and outreach components of the Districts programs.
Sustainability Commission – includes the payment the District provides to the County's Sustainability Commission.

Table VIII-5: Cost of Plan Implementation: HHW, Scrap Electronics, Scrap Tires and Battery Collection Program

The Plan Program restores the service cuts instituted in 2011.

HHW, Electronics, Tire and Battery Collection Program	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Staff Salaries	$1,847	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Education/Promotion/Print Mat		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Service Vendor Contract [1]	$303,659	$150,000	$50,000	$150,000	$154,500	$159,200	$164,000	$169,000	$174,100	$179,400	$184,800
Data Management (ReTRAC)	$4,896	$2,319	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$310,402	$152,319	$50,000	$150,000	$154,500	$159,200	$164,000	$169,000	$174,100	$179,400	$184,800

HHW, Electronics, Tire and Battery Collection Program	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Staff Salaries	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Education/Promotion/Print Mat	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Service Vendor Contract [1]	$190,400	$196,200	$202,100	$208,200	$214,500	$221,000	$227,700	$234,600	$241,700	$249,000	$256,500
Data Management (ReTRAC)	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$190,400	$196,200	$202,100	$208,200	$214,500	$221,000	$227,700	$234,600	$241,700	$249,000	$256,500

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Service Vendor Contract – includes money given to service vendor to manage the District's HHW, scrap electronics and scrap tire program. After a program reduction in 2011, restoration of the program services to 2010 levels is expected by 2012, with growth in program services anticipated throughout the remainder of the planning period.

Table VIII-5: Cost of Plan Implementation: **Yard Waste Collection Program**

The Plan Program differs restores the service cuts instituted in 2011, phasing in the expenditure at a lower allocation of funding given increased competition from yard waste processing vendors to provide those services.

Yard Waste Collection Program	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Education/Promotion/Print Mat		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Service Vendor Contract [1]	$358,044	$327,371	$-	$150,000	$175,000	$175,000	$200,000	$206,000	$212,200	$218,600	$225,200
Data Management (ReTRAC)	$4,896	$5,100	$-	$-	$-	$-	$-	$-	$-	$-	$-
Other		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$362,940	$332,471	$-	$150,000	$175,000	$175,000	$200,000	$206,000	$212,200	$218,600	$225,200

Yard Waste Collection Program	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Education/Promotion/Print Mat	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Advertising	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Service Vendor Contract [1]	$232,000	$239,000	$246,200	$253,600	$261,300	$269,200	$277,300	$285,700	$294,300	$303,200	$312,300
Data Management (ReTRAC)	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
Other	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
TOTAL	$232,000	$239,000	$246,200	$253,600	$261,300	$269,200	$277,300	$285,700	$294,300	$303,200	$312,300

Notes:

[1] Annual escalation rate of 3% for inflation where determined to be appropriate

Service Vendor Contract – includes money given to service vendor to manage the District's yard waste program. After a short discontinuation of the program in 2011, the District program funding for the yard waste drop-off sites is partially restored in a ramp up strategy, reflecting increased competition from yard waste processing vendors to provide these services, allowing a lower level of expenditure for a service levels comparable to 2010 and earlier.

E. Funding Allocated from ORC Section 3734

The purpose of this subsection is to show the allocations of ORC 3734.57 and ORC 3734.573 Revenue for the purposes defined in the tables. In **Table VIII-6** on the following pages, total revenues are shown and then the planned breakout of expenditures against those revenues by ORC category. The cumulative balance is then shown for both the Plan Program.

Table VIII-6: Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573

Reference (2008)	Allocations of ORC 3734.57 and ORC 3734.573 Revenue for the following Purposes: 2											Cumulative Balance
	Revenue	Loans	1	2	3	4	5	6	7	8	9	
								Beginning Balance				$446,729
2009	$1,475,434											
2010	$1,772,638	$0	$25,000	$2,170,253	$0	$0	$0	$0	$0	$0	$0	$24,114
2011	$4,665,887	$0	$25,000	$4,600,586	$0	$0	$0	$0	$0	$0	$0	$64,415
2012	$11,225,232	$0	$25,000	$11,092,600	$0	$0	$0	$0	$0	$0	$0	$172,047
2013	$11,530,510	$0	$25,000	$11,642,126	$0	$0	$0	$0	$0	$0	$0	$35,431
2014	$13,226,423	$0	$25,000	$12,757,466	$0	$0	$0	$0	$0	$0	$0	$479,388
2015	$13,497,344	$0	$25,000	$13,106,505	$0	$0	$0	$0	$0	$0	$0	$845,227
2016	$13,778,178	$0	$25,000	$13,473,618	$0	$0	$0	$0	$0	$0	$0	$1,124,787
2017	$14,073,157	$0	$25,000	$13,548,057	$0	$0	$0	$0	$0	$0	$0	$1,624,887
2018	$14,377,112	$0	$25,000	$13,929,286	$0	$0	$0	$0	$0	$0	$0	$2,047,712
2019	$14,690,310	$0	$25,000	$14,644,538	$0	$0	$0	$0	$0	$0	$0	$2,068,485
2020	$15,013,028	$0	$25,000	$15,058,999	$0	$0	$0	$0	$0	$0	$0	$1,997,514
2021	$15,339,654	$0	$25,000	$15,486,546	$0	$0	$0	$0	$0	$0	$0	$1,825,623
2022	$15,676,363	$0	$25,000	$15,927,210	$0	$0	$0	$0	$0	$0	$0	$1,549,776
2023	$16,023,457	$0	$25,000	$16,018,296	$0	$0	$0	$0	$0	$0	$0	$1,529,937
2024	$16,381,246	$0	$25,000	$15,698,387	$0	$0	$0	$0	$0	$0	$0	$2,187,796
2025	$16,750,051	$0	$25,000	$16,943,262	$0	$0	$0	$0	$0	$0	$0	$1,969,585
2026	$17,127,862	$0	$25,000	$17,440,537	$0	$0	$0	$0	$0	$0	$0	$1,631,910
2027	$17,517,353	$0	$25,000	$17,952,928	$0	$0	$0	$0	$0	$0	$0	$1,171,334
2028	$17,918,872	$0	$25,000	$18,481,500	$0	$0	$0	$0	$0	$0	$0	$583,707
2029	$18,332,745	$0	$25,000	$18,491,714	$0	$0	$0	$0	$0	$0	$0	$399,738
2030	$18,759,377	$0	$25,000	$19,040,045	$0	$0	$0	$0	$0	$0	$0	$94,070

Table VIII-6: Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573

Sample Calculations:
Cumulative Balance, Previous Year + Revenues + Loans – Allocations = Cumulative Balance, Current Year

Sources:
Beginning Balance: Lucas County Auditor
Revenues: Table VIII-3B
Loans: see Table VIII-4A and Table VIII-4B

Notes:
[1] + [2] = Sum of annual costs for each program presented in Table VIII-5
[1] – preparation and monitoring of plan implementation
[2] – implementation of approved plan
[3] – financial assistance to boards of health for SW enforcement
[4] – financial assistance to counties within the District to defray the costs of maintaining roads and other public services related to the location or operation of solid waste facilities.
[5] – contracts with boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities
[6] – out-of state waste inspection program
[7] – financial assistance to local boards of health to enforce ORC 3743.03 or to local law enforcement agencies having jurisdiction within the District for anti-littering
[8] – financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors
[9] – financial assistance to local municipalities and townships to defray the added cost of roads and services related to the operation of solid waste facilities

F. Contingent Funding or Financing

The District does not anticipate the need for contingent funding during the planning period given the provisions contained in the main funding strategy for a diversified funding base of tonnage based generation and contract fees supplemented as required by user fees and rates and charges. In the event that the District needs to implement new programs to meet State of Ohio goals and objectives, the District shall first review current programs that are not required to meet the participation and accessibility goal or numeric goal (whichever is applicable) and make necessary adjustments to meet contingent funding needs.

In the event that any current program designed to meet the participation and accessibility goals or numeric goal (whichever is applicable) fails to perform or is discontinued by the District or local political subdivision, the District shall implement the contingency process, conducting a feasibility analysis to determine the most economically feasible program modification or the most economically feasible alternative. The District shall include funding sources for all programs or alternatives recommended by the feasibility report.

Table VIII-7: Contingent Funding Sources

Year	Amounts of Contingent Funding for Each Source				Totals
	A	B	C	D	
2010	N/A				N/A
2011	N/A				N/A
2012	N/A				N/A
2013	N/A				N/A
2014	N/A				N/A
2015	N/A				N/A
2016	N/A				N/A
2017	N/A				N/A
2018	N/A				N/A
2019	N/A				N/A
2020	N/A				N/A
2021	N/A				N/A
2022	N/A				N/A
2023	N/A				N/A
2024	N/A				N/A
2025	N/A				N/A
2026	N/A				N/A
2027	N/A				N/A
2028	N/A				N/A
2029	N/A				N/A
2030	N/A				N/A

G. Summary of Costs and Revenues

Based on the anticipated revenues and program expenses outlined previously in Section 8, cumulative balances for each year of the planning period are presented in **Table VIII-8** for the Plan Program.

Table VIII-8: Summary of District Revenues and Expenditures

Strategy, Facility, Activity, or Program	2010	2011	2012	2013	2014	2015	2016
Revenues							
Revenues	$1,772,638	$4,665,887	$11,225,232	$11,530,510	$13,226,423	$13,497,344	$13,778,178
Loans							
Expenditures							
District Administration	$338,768	$264,814	$273,500	$282,500	$291,800	$301,400	$311,300
District Overall Program Management	$188,955	$220,043	$281,000	$289,500	$298,200	$307,200	$316,300
Drop-off Collection Program	$721,284	$667,725	$855,100	$1,155,300	$1,194,600	$1,235,500	$1,277,700
Curbside Collection Contract Management	$-	$2,941,400	$8,874,200	$9,175,426	$9,449,639	$9,732,078	$10,022,990
Matzinger Road Facility Operation	$122,152	$157,560	$209,600	$236,600	$1,015,627	$992,727	$996,527
Business Recycling Program	$77,727	$78,043	$78,200	$78,300	$78,400	$78,600	$78,800
District Education, Outreach, Promotion	$261,577	$246,000	$246,000	$120,000	$120,000	$120,000	$120,000
HHW, Electronics, Tire and Battery Program	$152,319	$50,000	$150,000	$154,500	$159,200	$164,000	$169,000
Yard Waste Collection Program	$332,471	$-	$150,000	$175,000	$175,000	$200,000	$206,000
Total Expenditures	$2,195,253	$4,625,586	$11,117,600	$11,667,126	$12,782,466	$13,131,505	$13,498,618
Less Loan Repayment	$-	$-	$-	$-	$-	$-	$-
Cumulative Balance	$24,114	$64,415	$172,047	$35,431	$479,388	$845,227	$1,124,787

Table VIII-8: Summary of District Revenues and Expenditures

Strategy, Facility, Activity, or Program	2017	2018	2019	2020	2021	2022	2023
Revenues							
Revenues	$14,073,157	$14,377,112	$14,690,310	$15,013,028	$15,339,654	$15,676,363	$16,023,457
Loans							
Expenditures							
District Administration	$321,500	$332,100	$343,000	$354,200	$365,900	$378,000	$390,400
District Overall Program Management	$325,800	$335,700	$345,900	$356,300	$367,000	$378,000	$389,300
Drop-off Collection Program	$1,017,400	$1,053,600	$1,413,464	$1,462,100	$1,512,600	$1,564,900	$1,256,100
Curbside Collection Contract Management	$10,322,630	$10,631,259	$10,949,147	$11,276,571	$11,613,818	$11,961,183	$12,318,968
Matzinger Road Facility Operation	$1,000,427	$1,004,427	$1,008,627	$1,012,827	$1,017,227	$1,021,827	$1,026,527
Business Recycling Program	$79,000	$79,200	$79,400	$79,600	$79,800	$80,000	$80,200
District Education, Outreach, Promotion	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000
HHW, Electronics, Tire and Battery Program	$174,100	$179,400	$184,800	$190,400	$196,200	$202,100	$208,200
Yard Waste Collection Program	$212,200	$218,600	$225,200	$232,000	$239,000	$246,200	$253,600
Total Expenditures	$13,573,057	$13,954,286	$14,669,538	$15,083,999	$15,511,546	$15,952,210	$16,043,296
Less Loan Repayment	$-	$-	$-	$-	$-	$-	$-
Cumulative Balance	$1,624,887	$2,047,712	$2,068,485	$1,997,514	$1,825,623	$1,549,776	$1,529,937

Table VIII-8: Summary of District Revenues and Expenditures

Strategy, Facility, Activity, or Program	2024	2025	2026	2027	2028	2029	2030
Revenues							
Revenues	$16,381,246	$16,750,051	$17,127,862	$17,517,353	$17,918,872	$18,332,745	$18,759,377
Loans							
Expenditures							
District Administration	$403,000	$416,100	$429,700	$443,700	$458,200	$473,200	$488,600
District Overall Program Management	$401,100	$413,200	$425,600	$438,300	$451,600	$465,300	$479,200
Drop-off Collection Program	$1,301,300	$1,733,386	$1,793,600	$1,856,000	$1,920,600	$1,553,900	$1,610,400
Curbside Collection Contract Management	$12,687,487	$13,067,062	$13,458,024	$13,860,714	$14,275,486	$14,702,700	$15,142,731
Matzinger Road Facility Operation	$254,300	$647,714	$652,814	$657,914	$663,414	$568,014	$573,714
Business Recycling Program	$80,400	$80,600	$80,800	$81,000	$81,200	$81,400	$81,600
District Education, Outreach, Promotion	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000	$120,000
HHW, Electronics, Tire and Battery Program	$214,500	$221,000	$227,700	$234,600	$241,700	$249,000	$256,500
Yard Waste Collection Program	$261,300	$269,200	$277,300	$285,700	$294,300	$303,200	$312,300
Total Expenditures	$15,723,387	$16,968,262	$17,465,537	$17,977,928	$18,506,500	$18,516,714	$19,065,045
Less Loan Repayment	$-	$-	$-	$-	$-	$-	$-
Cumulative Balance	$2,187,796	$1,969,585	$1,631,910	$1,171,334	$583,707	$399,738	$94,070

Sources:
All figures taken from previous Section 8 tables
2010 Beginning Balance – Lucas County Auditor – Beginning Balance entering 2010 - $446,729

Sample Calculations:
Previous Cumulative Balance + Revenues + Loans – Total Expenditures = Cumulative Balance
Total Expenditures = Sum of Annual Expenses

Section 9. District Rules

A. Existing Rules

The District reserves the right, as expressly and impliedly authorized by law, to adopt, amend, rescind and enforce rules to assist the Lucas County Solid Waste Management District with the implementation of its approved Solid Waste Management Plan.

The rules adopted by the District shall not conflict with or be less stringent than any rule or regulation of the Director of Ohio EPA, unless specific statutory authority is provide therefore

B. Proposed Rules

Ohio Revised Code (ORC) Section 343.01(G) authorizes the District to adopt rules on the following:

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

ORC Section 3735.53 (C) authorizes the District to provide for 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 right, as expressly and impliedly authorized by law within the four categories identified in ORC Section 343.01(G) and the authority provided for in ORC Section 3735.53 (C), to adopt, amend, rescind and enforce rules to assist the Lucas County Solid Waste Management District with the implementation of its approved Solid Waste Management Plan.

The rules adopted by the District shall not conflict with or be less stringent than any rule or regulation of the Director of Ohio EPA, unless specific statutory authority is provide therefore.

Any proposed rule will be subject to review by the District's legal counsel and determined at that time to be within the District's statutory authority to promulgate. In the event any portion of any rule reservation stated herein, is determined to be unenforceable by a court of competent jurisdiction, such a determination shall not affect the remainder of the District's reserved authority to develop rules. All reservations of rights to develop rules contained herein are severable and the invalidity of any one or more shall not affect the remainder.

ORC Section 3734.53(C)

The District reserves the right to adopt rules specifically authorized by the ORC. Section 343.01(F) of the ORC provides the Board of County Commissioners with the authority to adopt, publish and enforce rules if the District

Plan authorizes rule adoption under ORC Section 3734.53(C). The District is authorized under this Plan Update to adopt rules under the following provisions of the ORC:

ORC 3734.53(C)(1)

Prohibiting or limiting the receipt at facilities 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 adopted under division (C)(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 directors' order;

(b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;

(c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;

(d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;

(e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (C)(1)(a) to (d) of this section have been met;

(f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of out-of-state wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (C)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

ORC 3734.53(C)(2)

Governing the maintenance, protection, and use of solid waste collection and solid waste disposal, transfer, recycling, and resource recovery facilities within the district and requiring the submission of general plans and specifications for the construction, enlargement, or modification of any such facility to the Board of County Commissioners of the District for review and approval as complying with the plan or amended plan of the District.

ORC 3734.53(C)(3)

Governing development and implementation of a program for the inspection of solid wastes generated outside the boundaries of state that are being disposed of at solid waste facilities included in the district's solid waste management plan.

ORC 3734.53(C)(4)

Exempting the owner or operator of any solid waste facility 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.