

II. Executive Summary

The Solid Waste Authority of Central Ohio (“SWACO”) is submitting a fifteen year solid waste plan that will be updated in five years as required by the Ohio Revised Code (ORC). This *Plan Update* will cover a fifteen year planning period ending in 2025. This *Plan Update* includes a description of SWACO’s programs for the Residential, Commercial/Institutional and Industrial Sectors as well as projections for these programs, solid waste generation, recycling and disposal for fifteen years.

The Ohio Environmental Protection Agency (“Ohio EPA”) has developed the Plan Format and requires Solid Waste Management Districts to complete Plan Updates consistent with the specified format. This *Plan Update* is based on the goals in the 1995 State Plan and Format Version 3.0. The narrative information required in each section is specified and the tables have been set-up by Ohio EPA. There are nine major sections to the Plan Format:

Section I – Includes basic information about SWACO and is an important section on determining when material changes would require an amendment to the *Plan Update*.

Section II – Is an Executive Summary and includes brief narrative descriptions of each section in the *Plan Update*.

Section III – Includes an inventory of facilities, activities, and haulers used by the District in the reference year (2008).

Section IV – Includes the reference year statistics for the *Plan Update* including population data, waste generation and waste reduction estimates for the Residential/Commercial Sector and the Industrial Sector.

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

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

Section VII – Presents how the District meets the state waste reduction and recycling goals.

Section VIII – Includes a presentation of the financial resources of the District necessary to implement this Plan.

Section IX – District rules proposed, approved and authorized for adoption are presented by the District.

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

A. Section I. Introduction

Section I. includes basic information about SWACO including:

- Plan Approval Date;
- Counties in Authority;
- Length of Planning Periods;
- Reasons for Plan Submittal;
- Process to Determine Material Change in Circumstances;
- District Formation;
- Description of Board of Trustees;
- District Address and Phone Numbers; and
- Description of the Technical Advisory Council and Other Subcommittees.

SWACO is comprised of Franklin County and also includes very small portions of Union, Delaware, Fairfield, Licking, and Pickaway counties. There are very small portions of Franklin County in the cities of Lithopolis and Pickerington that are not included in the District and are included in the Coshocton-Fairfield-Licking-Perry Joint District.

The current Plan was approved by Ohio EPA on July 17, 2005 and covers a fifteen year planning period. This *Plan Update* begins with the planning year 2011 and includes a fifteen year planning period.

The Authority is governed by a Board of Trustees. The current members of the Authority Board of Trustees are listed in Figure II-1:

Figure II-1 – Board of Trustees	
Board Member	Representing
Bradley N. Frick, Chairman	<i>Representing the Health District Having the Largest Territorial Jurisdiction within SWACO</i>
David J. Bush, Vice Chairman	<i>Representing the Citizens of Columbus</i>
Colleen H. Briscoe	<i>Representing the General Public</i>
John O’Grady	<i>Representing the President of the County Commissioners</i>
Robert J. Clemons	<i>Representing Industrial, Commercial and Institutional Generators</i>
Philip D. Honsey	<i>Representing the General Public with No Conflicts of Interest with the Waste Industry</i>
William Lotz, Sr.	<i>Representing Franklin County Townships</i>
Steven P. Shepard	<i>Representing the County Commissioners</i>
Mark Kelsey	<i>Representing the Chief Executive Officer of the Municipal Corporation Having the Largest Population</i>

Process to Determine Material Change in Circumstances and Amend the Plan

In accordance with ORC 3734.56(D), the Plan must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to: (1) assure waste disposal capacity during the planning period; (2) maintain compliance with applicable waste reduction or access goals; or (3) adequately finance implementation of the Plan. SWACO monitors conditions and the programs, waste volumes and revenues necessary to determine whether there has been a material change in circumstances necessitating an update of the Plan.

Technical Advisory Council and Other Subcommittees

SWACO did not formally use a Technical Advisory Committee during the preparation of the *Plan Update*.

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities during the reference year of the *Plan Update*. The reference year for the *Plan Update* is 2008.

1. Existing Solid Waste Landfills

SWACO used one in-district and eleven out-of-district landfills in 2008. The in-district landfill is the Franklin County Sanitary Landfill, operated by SWACO. At the end of 2008, the Franklin County Sanitary Landfill had just over 29 years of projected capacity available. Combined, the twelve landfills managed approximately 1.2 million tons of solid and exempt waste that was generated in the District.

2. Existing Incinerators and Resource Recovery Facilities

No publically available incinerators or resource recovery facilities currently exist within the District. The trash burning power plant facility closed in 1994.

3. Existing Transfer Facilities

In the reference year 2008, SWACO used six in-district transfer facilities and seven out-of-district transfer facilities. Over 580,000 tons of Residential/Commercial Sector waste and 36,000 tons of exempt waste was received and transferred at

the thirteen facilities. SWACO operates three of the transfer facilities. They include:

- Georgesville Road – 64,201 tons;
- Jackson Pike – 164,326 tons; and
- Morse Road – 133,156 tons.

Figure II-2 depicts the break-down of transfer and landfill facilities receiving SWACO solid waste in 2008. Ninety percent of the waste generated in SWACO’s District went either directly to the Franklin County Sanitary Landfill or to an in-district transfer station.

Figure II-2 – Transfer and Landfill Facilities Receiving SWACO Solid Waste in 2008

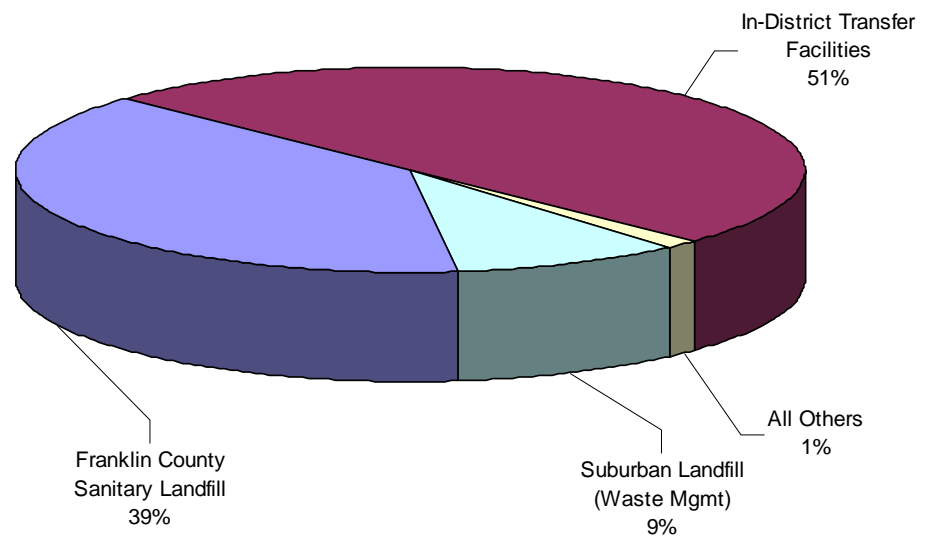


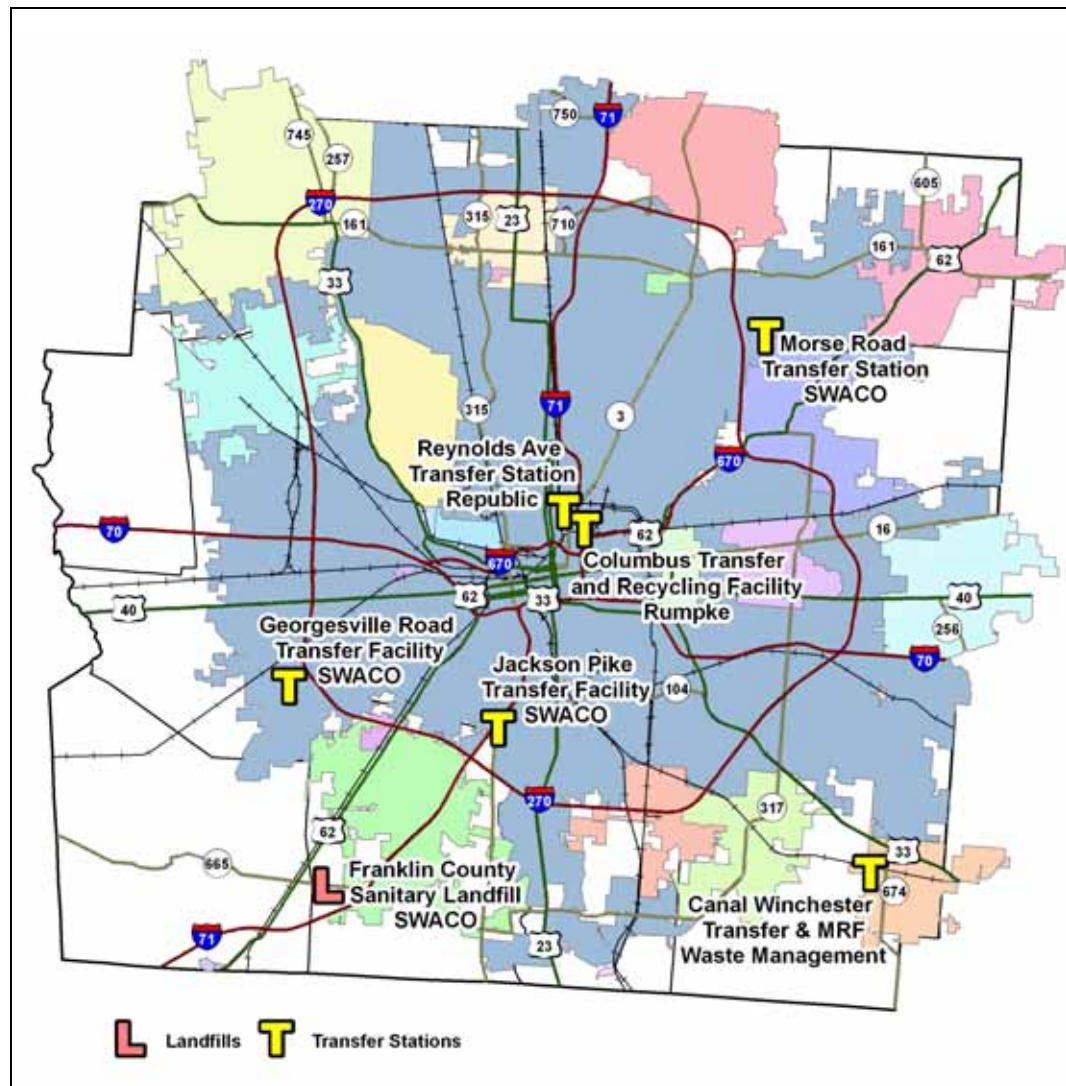
Figure II-3 below depicts the transfer and landfill facilities used by SWACO in 2008 that are categorized as out-of-district facilities.

Figure II-3 – Out-of-District Transfer and Landfill Facilities Receiving Direct Hauled SWACO Solid Waste in 2008



Figure II-4 depicts in-district Transfer and Landfill Facilities used by SWACO in the reference year.

Figure II-4 – In-District Transfer and Landfill Facilities Receiving Direct Hauled SWACO Solid Waste in 2008



4. Existing Recycling and Household Hazardous Waste Collection Activities

- Twenty-seven communities have non-subscription curbside recycling programs (all single-family households have access to the recycling program whether or not they choose to participate). The communities reported collecting 29,629 tons of recyclable materials in 2008.
- Two communities (City of Columbus and Clinton Township) have subscription curbside recycling programs (a recycling service that a resident requests and pays for with a subscription fee). The City of Columbus reported

collecting 19,562 tons of recyclable materials in 2008. Figure II-5 identifies the types of curbside recycling programs available in SWACO municipal corporations in the reference year 2008.

Figure II-5 – Curbside Recycling Programs in 2008



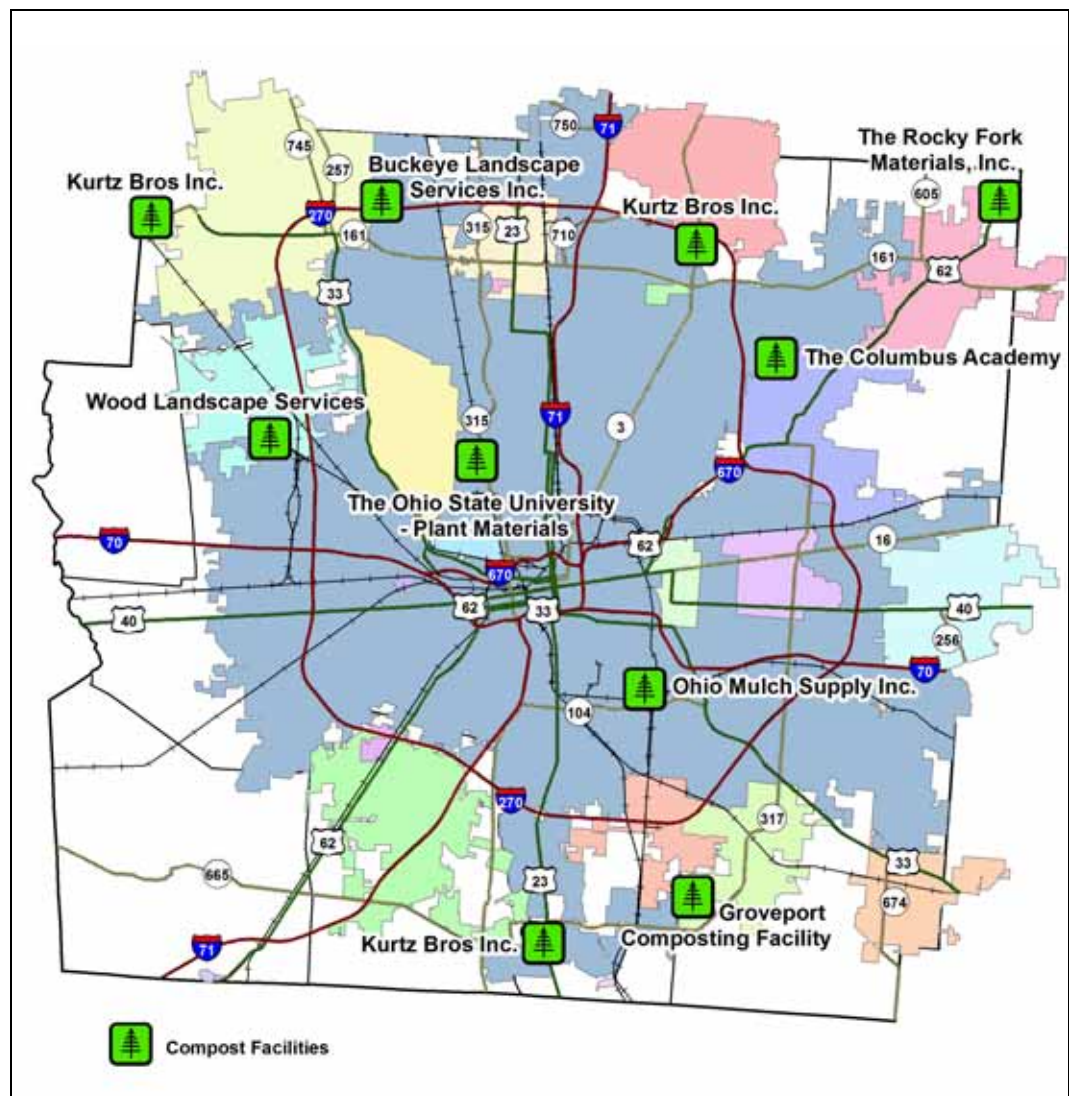
- The District is served by 80 community drop-off locations and over 120 drop-offs located at Franklin County Schools. The drop-offs collected approximately 13,000 tons of recyclable materials in 2008.
- The District curbside and drop-off recycling programs all collect aluminum, steel, glass, and plastic containers. Each community also collected newspaper, cardboard, magazines, mixed paper and office paper.
- In 2008, SWACO conducted 13 one-day mobile Household Hazardous Waste (HHW) collection events.

SWACO also has a permanent HHW facility that was open 104 days in 2008. The mobile events and permanent collection events collected 641 tons in 2008.

5. Existing Composting/Yard Waste Management Facilities

There are eight registered Class IV yard waste facilities and one registered Class II facility located within Franklin County. These facilities are identified in Figure II-6. These nine facilities composted 119,553 tons of material in 2008. SWACO also contracts with two facilities, Kurtz Brothers and Ohio Mulch. Kurtz Brothers reported an additional 58,044 tons of materials that was categorized as wood waste and converted into mulch. The total yard waste managed within SWACO in 2008 was 177,596 tons.

Figure II-6 – SWACO Compost Facilities

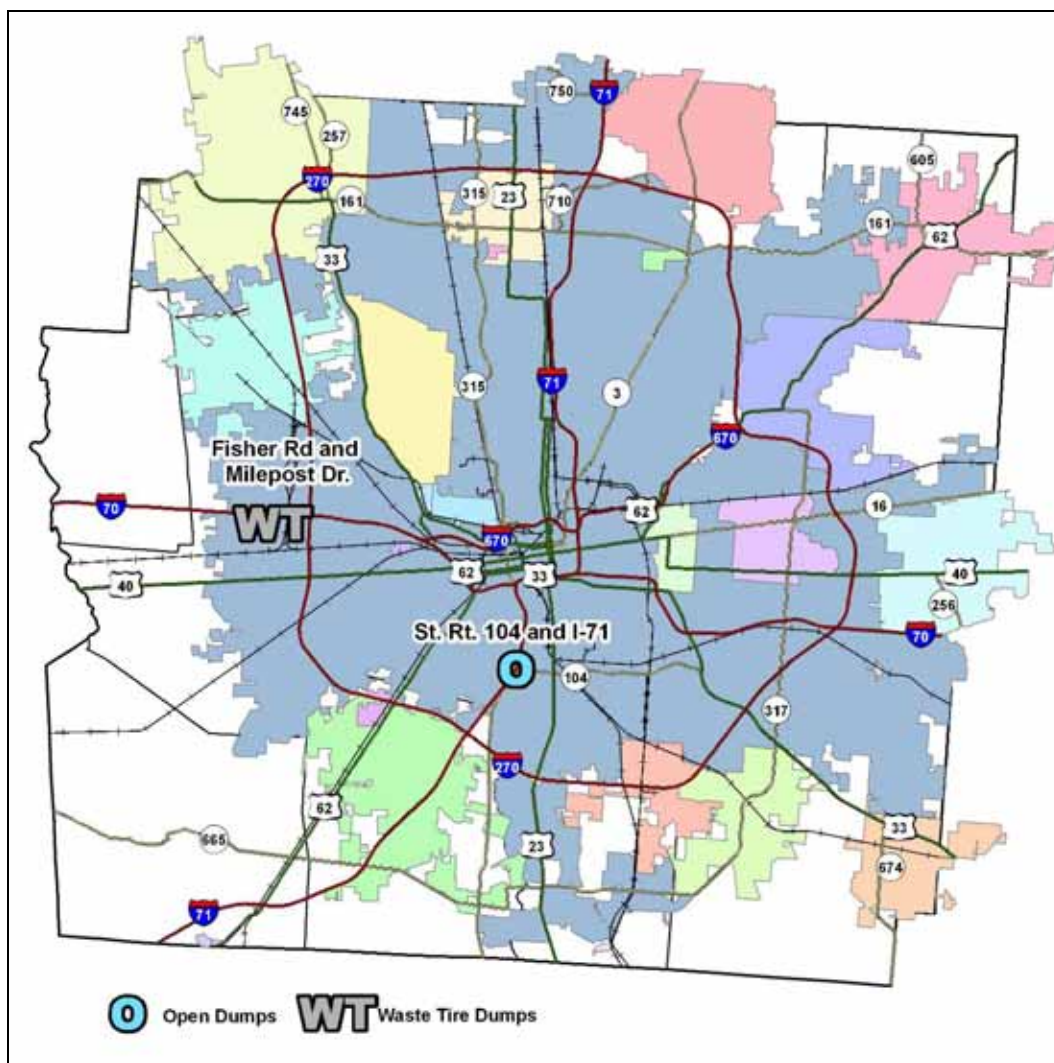


6. Existing Open Dumps and Waste Tire Dumps

Only two open dump sites remain in an ongoing status and are presented in Figure II-7. All of the other sites listed are considered abated. The two sites that are ongoing include:

- A one-acre site at the intersection of S.R. 104 and I-71.
- A waste tire dump at Fisher Road and Milepost Drive. There are 46 property parcels at this location.

Figure II-7 – Open Dumps and Waste Tire Dumps



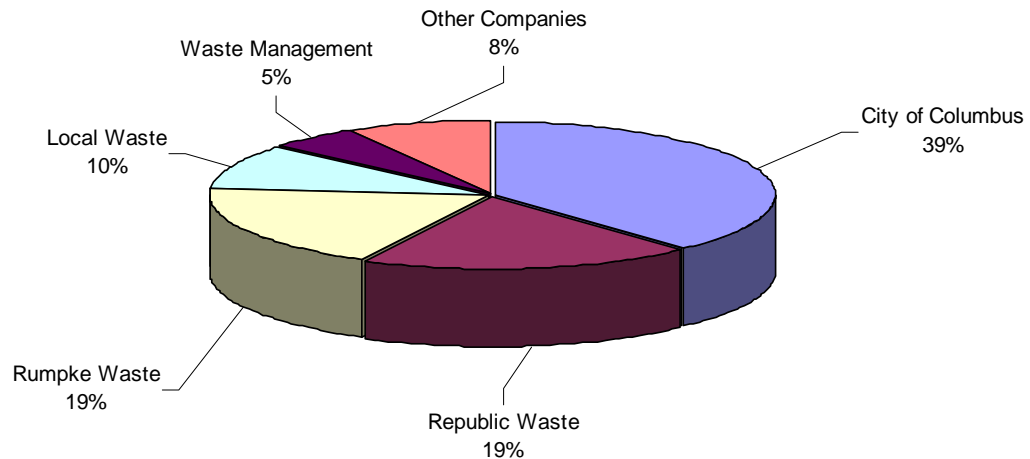
7. Existing Foundry Sand and Slag Disposal Sites

Ohio EPA verified that the Griffin Wheel Company in Groveport continues to be the only foundry sand and slag site located in Franklin County. This site has been in operation for twenty-three years.

8. Existing Collection Systems - Haulers

Five waste haulers account for approximately 92 percent of the material delivered to the SWACO Landfill. One hundred and twenty-five companies delivered the remaining eight percent of the waste to the SWACO Landfill. The distribution may be observed in Figure II-8. Solid waste haulers are required to be registered with the Health Commissioner of the Franklin County Health District according to section 803.01 of the Franklin County Board of Health Regulation 800 Comprehensive Solid Waste Regulations.

Figure II-8 – Solid Waste Haulers Delivering Waste to The Franklin County Sanitary Landfill in 2008



9. SWACO Infrastructure

SWACO operates the Franklin County Sanitary Landfill. Other key pieces of infrastructure are SWACO's three transfer facilities.

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

Section IV presents statistics and programs operating in the reference year 2008. Waste generation is estimated using national averages adjusted by Ohio EPA. Actual waste generation from the reference year 2008 is extrapolated and evaluated against the estimated generation.

1. Reference Year Population and Residential/Commercial Waste Generation

The total adjusted population for SWACO in 2008 was 1,160,301. For 2008, the per capita Residential/Commercial

Sector waste generation estimate was 4.82 pounds per person per day. SWACO's estimated Residential/Commercial Sector waste generation was estimated to be 1,020,659 tons in 2008.

2. Industrial Waste Generation

SWACO conducted an Industrial Survey in 2008 to support this *Plan Update*. Survey responses and estimates were used to project a total of 770,301 tons of Industrial Sector waste was estimated to have been generated by SWACO. Approximately 21 percent (163,584 tons) was reported in the surveys.

3. Exempt Waste

The amount of exempt waste generated by the District in 2008 was 40,666 tons. Of those 40,666 tons, 4,228 tons were direct hauled to landfills and 36,438 tons were hauled to transfer facilities. The Reynolds Avenue Transfer Facility (Table III-3) reported accepting 33,742 tons of exempt waste.

4. Total Waste Generation

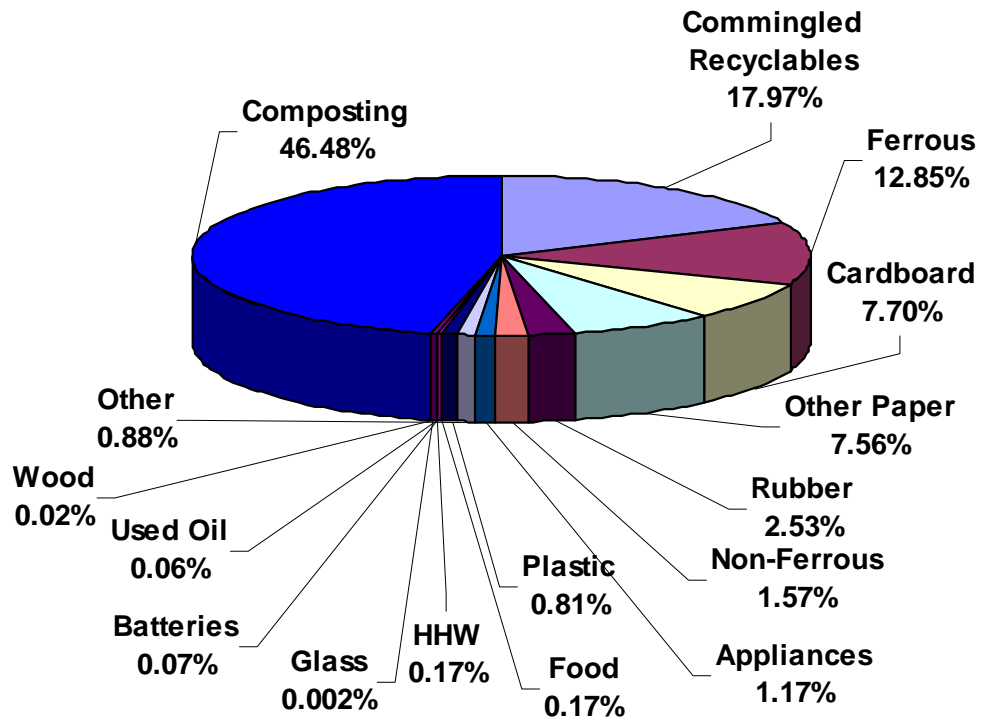
Using the national averages adjusted by Ohio EPA, SWACO projected 1,831,627 tons of waste was generated in 2008. The generation rate in pounds per person per day is estimated at 8.65.

5. Reference Year Waste Reduction

Residential/Commercial Sector

SWACO had 382,079 tons of Residential/Commercial Sector waste recycled in 2008. Figure II-9 distributes total recycling by commodity.

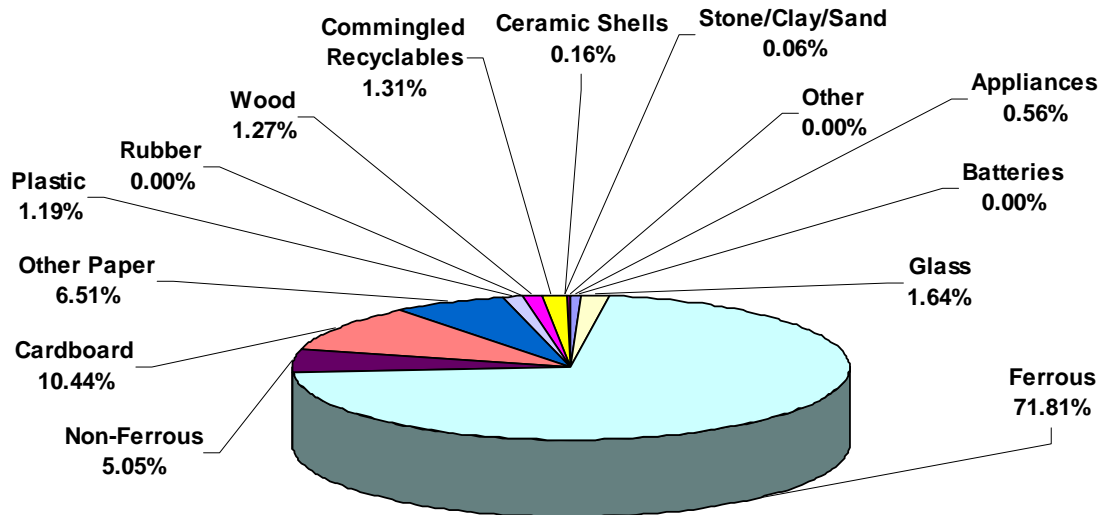
Figure II-9 – Residential/Commercial Sector Waste Reduction in 2008



Industrial Sector

In 2008, there was 149,760 tons of Industrial Sector waste recycled. Figure II-10 distributes total recycling by commodity.

Figure II-10 – Industrial Sector Waste Reduction in 2008



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

In the 2008 reference year, the following facilities/programs were implemented:

Residential/Commercial Waste Reduction/Recycling and Education Strategies

Residential/Commercial Recycling and Waste Reduction Programs

- Non-Subscription Curbside Recycling
- Subscription Curbside Recycling
- Drop-off Recycling
- Yard Waste Management
- Just In Time Recycling (JITRS)
- Household Hazardous Waste Collection and Processing
- Facility Solid Waste Management Planning
- Electronics Recycling (provide list on website)
- Tire Recycling (collects tires at transfer stations and landfill)
- City of Columbus Recycling Programs
- Organics Collection and Processing System

Education and Community Awareness Programs

- Smart Communities
- Center of Science and Industry (COSI)
- Columbus Zoo & Aquarium (CZA) My House/Education Grant
- School District Recycling
- Teacher Technical Assistance
- Teacher Workshops
- Resource Library
- Classroom Presentations
- News From SWACO
- Landfill Tours
- Special Events
- Central Ohio Emeralds
- SWACO Website
- Environmental Steward Office – City of Columbus Partnership

Industrial Waste Reduction Strategies

Industrial Recycling and Waste Reduction Programs

- Solid Waste Assessments
- OMEX and Local Recyclers (link provided on SWACO website)
- Business Round Table

Other Programs

Litter and Illegal Dumping Programs

- Anti-Litter and Illegal Dumping Programs
 - Adopt-a-Roadway
 - Nail-a-Dumper
 - Litter Marshall
 - Litter Management
- Franklin County Emergency Management Agency (FCEMA) Debris Management Plan
- Health Department Support

Other Programs

- Strategic Planning and Program Development
- Solid Waste Plan Update
- Market Development
- SWACO General Grants Program
- Surveys - SWACO Computer Survey Systems
- SWACO Solid Waste Consortia

SWACO Infrastructure

In Ohio, there are few solid waste districts with the infrastructure to comprehensively manage solid waste generation. SWACO's infrastructure has been established during the twenty-two years since its creation. There are pieces that were established many years ago that continue to be in service. There are other parts of the system that have been discontinued. The following facilities listed below are part of the 2008 SWACO Infrastructure to meet the mission of the organization.

- Franklin County Sanitary Landfill
- SWACO Transfer Facilities
- Green Energy Centre Landfill Gas Recovery
- WTEF Multi-Plex Enterprise

- Anaerobic Digester
- Other Infrastructure Facilities

7. Total Waste Generation: Historical Trends Plus Waste Reduction

The following Figures II-11, II-12, II-13 and II-14 depict SWACO's waste stream from 2004 – 2008.

Figure II-11 – SWACO Historical Total Generation

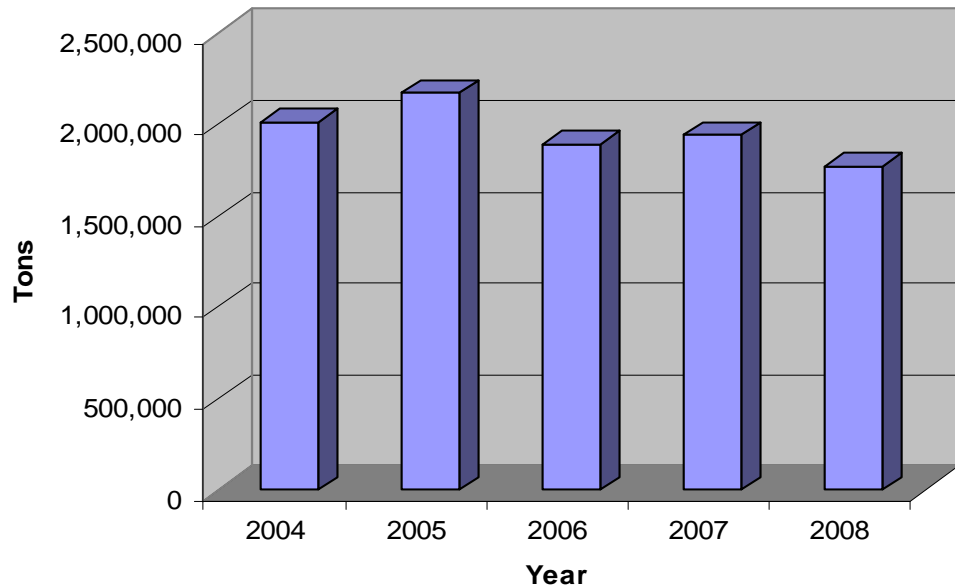


Figure II-12 – SWACO Historical Landfill Disposal

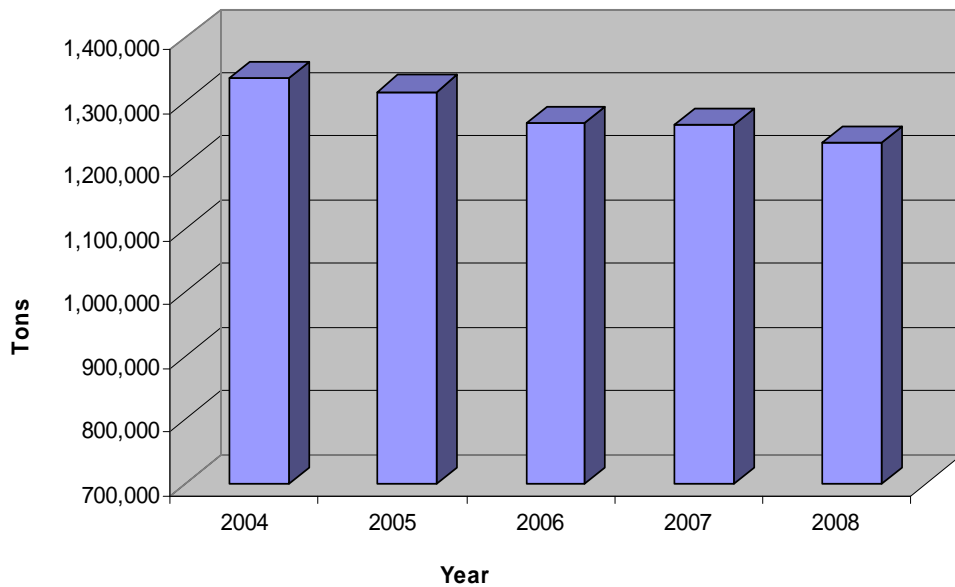


Figure II-13 – SWACO Historical Yard Waste Management

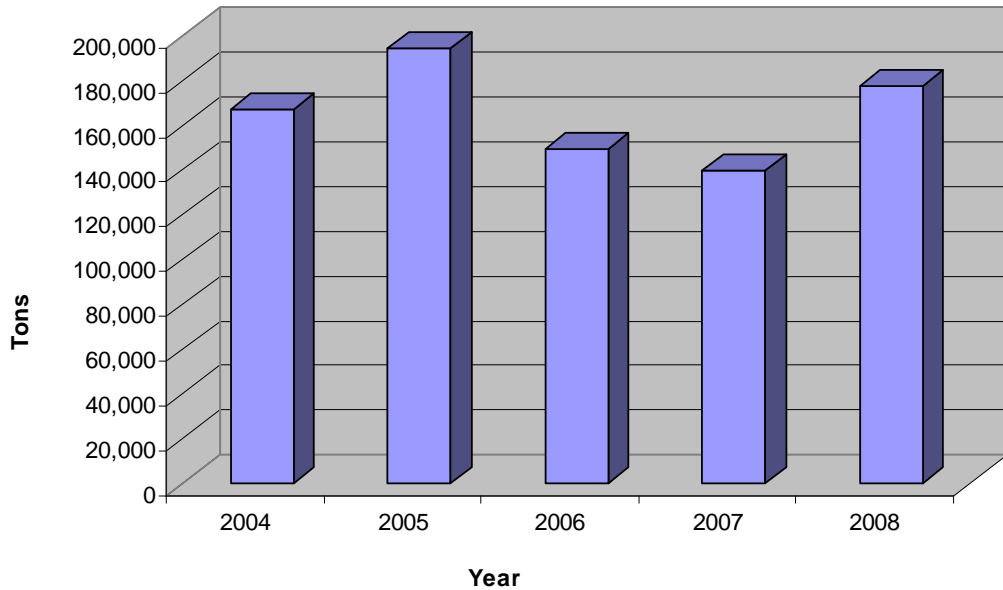
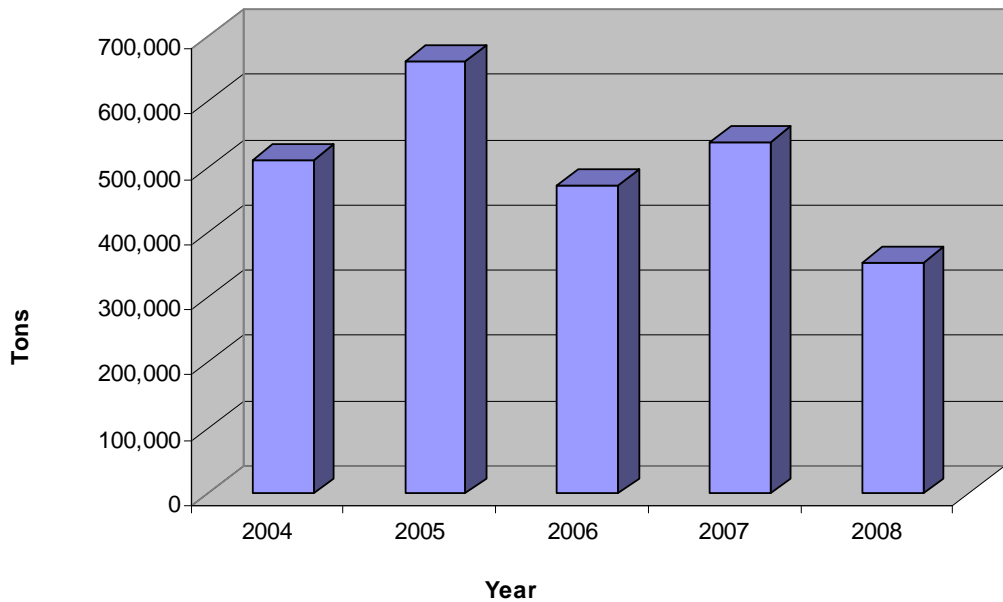


Figure II-14 – SWACO Historical Waste Reduction

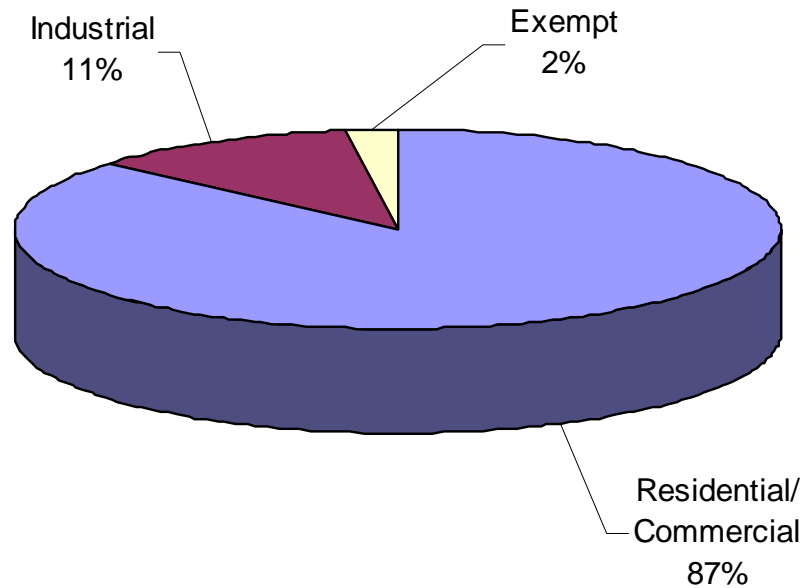


8. Reconciliation of Waste Generation

SWACO is using historic trends and actual disposal and recycling rates from 2008 to calculate waste generation. For 2008, SWACO residents, businesses and industry generated 1,767,553 tons of waste. This includes recycling and waste disposal from all sectors. The Residential/Commercial Sector generated 1,529,419 tons, or 7.22 pounds of waste per person per day which includes recycling and yard waste composting.

The Industrial Sector generated 197,467 tons, or approximately 0.93 pounds of waste per person per day. Figure II-15 depicts the reference year waste generation by sector.

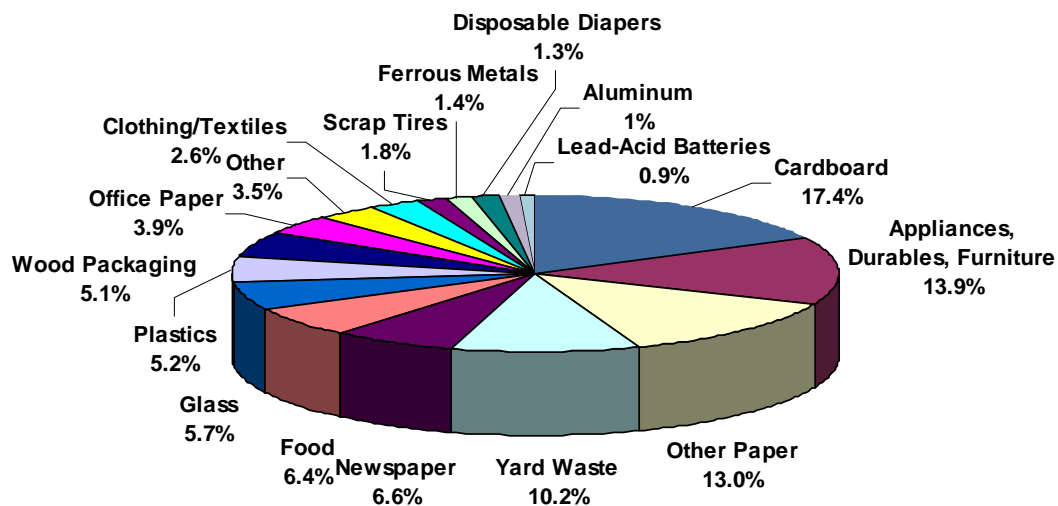
Figure II-15 – Adjusted Waste Generation by Sector



9. Waste Composition

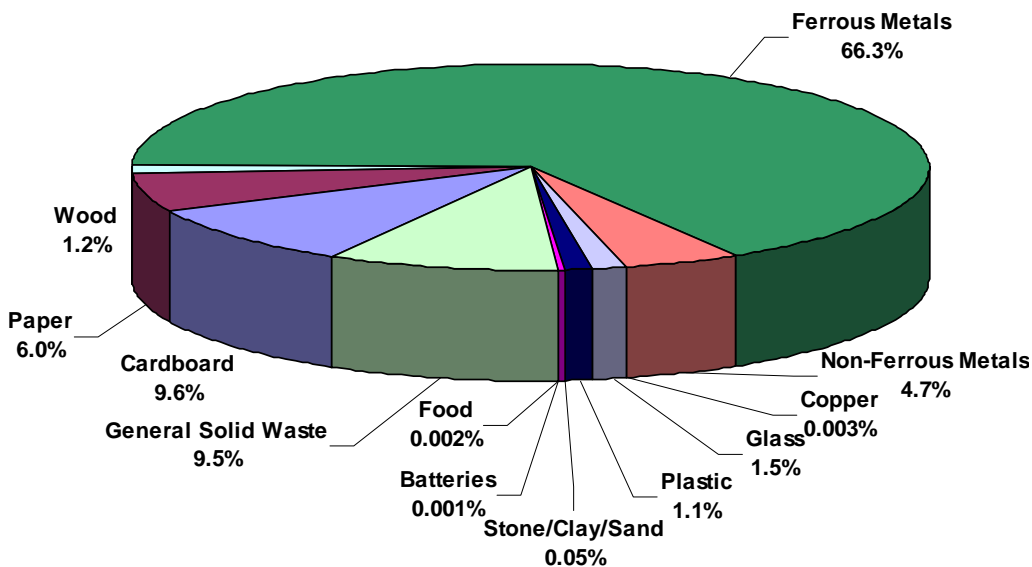
Residential/Commercial Sector waste stream composition is defined using the national averages from Appendix KK of the Plan Format. The composition may be viewed in Figure II-16. The main purpose of reviewing the waste composition is to review the types of materials generated and determine if programs are adequate to manage the diversion of the largest components of the waste stream.

Figure II-16 – Residential/Commercial Sector Waste Stream Composition



Industrial Sector waste composition is depicted in Figure II-17. The composition is estimated based on the amount of Industrial Sector waste disposed and recycled in 2008. Information for Industrial Sector recycling and disposal was obtained from industries, recycling facilities and brokers. Non-hazardous waste, concrete, ash and sludge were eliminated from the acceptable waste materials for recycling calculations only. All recycled materials are provided as actual totals. The remainder of material disposed in the landfill is categorized as general solid waste.

Figure II-17 – Industrial Sector Waste Stream Composition



D. Section V. Planning Period Projections

SWACO is constantly evolving as an entity, both in terms of being on the forefront of the latest in environmentally responsible and sustainable disposal practices, as well as being a leader in promoting “green” practices and lifestyles. SWACO’s numerous programs demonstrate a dedication to responsibly managing the waste stream, while also meeting the environmental needs and goals of the community.

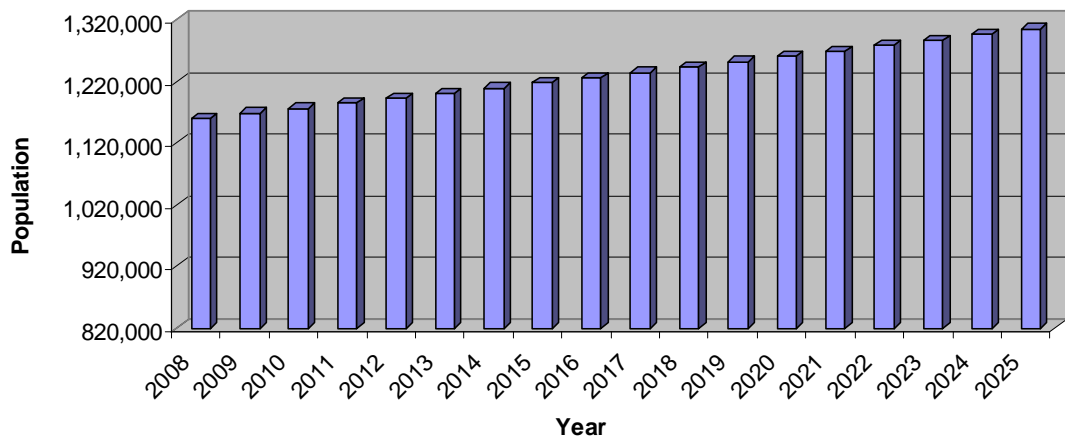
1. Planning Period

The planning period for the *Plan Update* is January 1, 2011 - December 31, 2025.

2. Population Projections

The population estimate from Section IV for the 2008 reference year is 1,160,301. Population projections were made using the annual growth rate from 2005 – 2025 based on the growth rate of the county that each political subdivision or portion of a political subdivision is located. SWACO projects the population will continue to grow slowly over the fifteen-year planning period. This may be observed in Figure II-18. Total population within SWACO is projected to be 1,304,749 by 2025. This is a population increase of nine percent for the planning period (2011 – 2025).

Figure II-18 – SWACO Population Estimate (2008 – 2025)



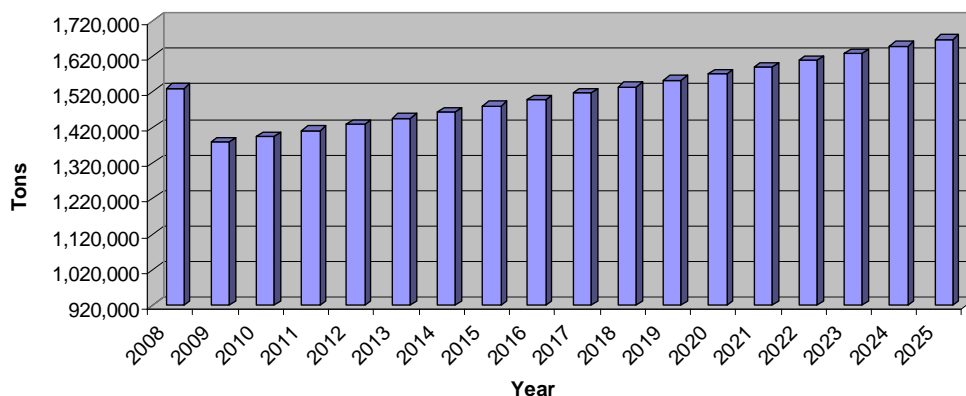
3. Waste Generation Projections

Residential/Commercial Sector

Residential/Commercial Sector waste generation is projected to increase throughout the planning period consistent with the rate

of population increase and projected changes in generation rates. This trend is depicted in Figure II-19. In 2011, the first year of the planning period, Residential/Commercial Sector waste generation is projected to be 1,391,816 tons. Residential/Commercial Sector waste generation is projected to increase to 1,644,026 tons in 2025, an 18 percent increase during the planning period.

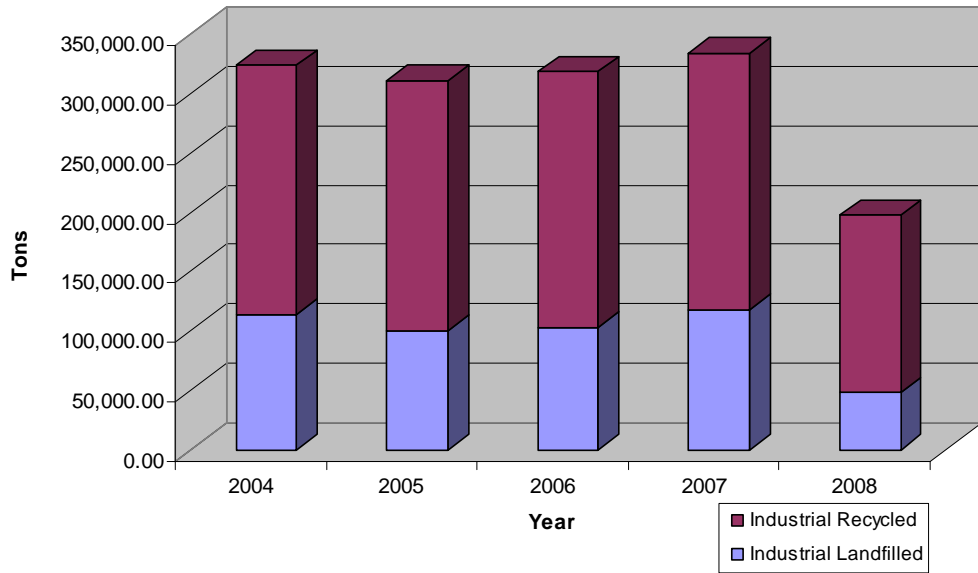
Figure II-19 – SWACO Residential/Commercial Waste Generation (2008 – 2025)



Industrial Sector

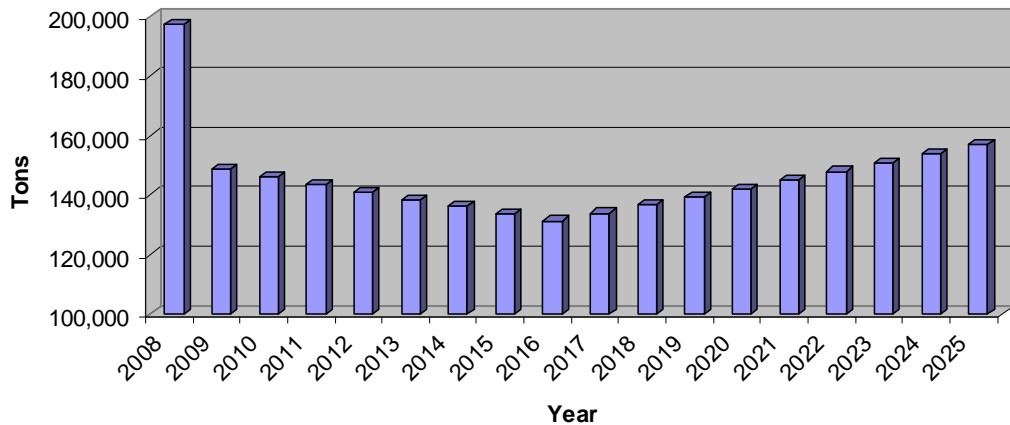
SWACO projects Industrial Sector waste generation will decrease 1.76% annually during 2009 – 2016. This is the annual average rate of decrease in manufacturing employment according to the Ohio Department of Job and Family Services for the period beginning in 2006 and ending in 2016. The decrease in Industrial Sector waste generation until 2016 is recession related and predicts a slow recovery. Figure II-20 depicts Industrial Sector generation over the previous five years.

Figure II-20 – SWACO Historical Industrial Sector Generation



By 2017, projections suggest that Industrial Sector waste generation rates will increase by 2 percent per year until 2025, the final year of the planning period. This projected trend may be observed in Figure II-21. In 2025, Industrial Sector waste generation is projected to be 156,980 tons, which is a 40,488 ton decrease from the reference year in 2008, to the end of the planning period in 2025.

Figure II-21 – SWACO Industrial Sector Waste Generation (2008 – 2025)



Total Waste Generation

Total waste generation is comprised of Residential/Commercial Sector waste, Industrial Sector waste, and exempt waste. Total waste generation is projected to increase approximately 266,000 tons over the 15 year planning period (2011 – 2025) from 1,565,365 to 1,831,006 tons in 2025, which is a 17 percent

increase. Figure II-22 depicts total waste generation beginning in the reference year and extending throughout the planning period.

Figure II-22 – SWACO Total Waste Generation (2008 – 2025)

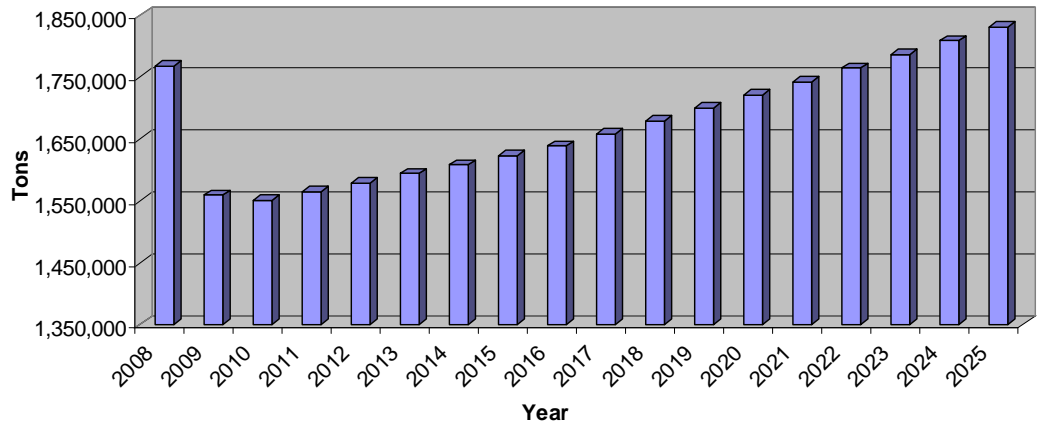
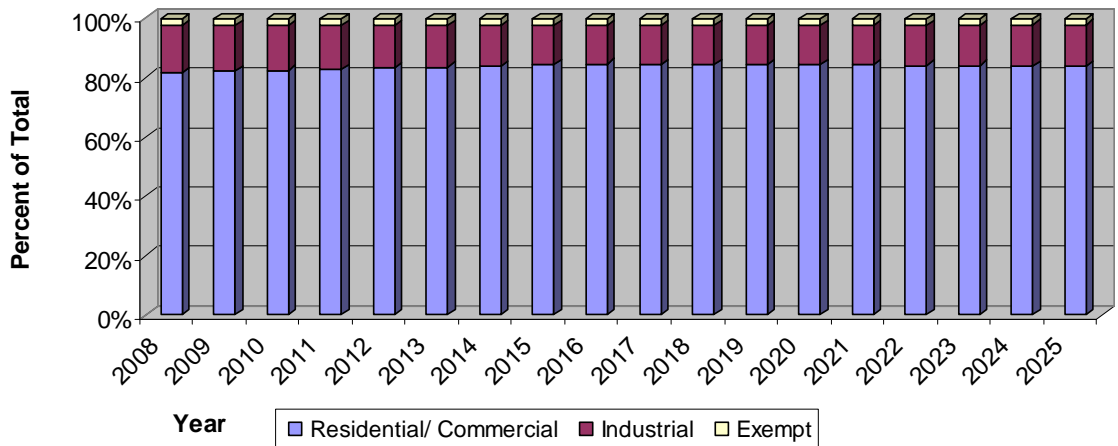


Figure II-23 depicts waste generation by sector as a percentage of the total waste generation.

Figure II-23 – SWACO Total Waste Generation by Sector (2008 – 2025)



4. Projections for Waste Stream Composition

SWACO does not anticipate any major changes in the composition of the waste stream during the planning period.

5. Waste Reduction and Recycling Strategies through the Planning Period

SWACO offers numerous recycling programs designed to assist the Residential, Commercial and Industrial Sectors divert solid

waste from the landfill. SWACO must continue to develop recycling and waste reduction strategies to meet the goals established in the 1995 State plan.

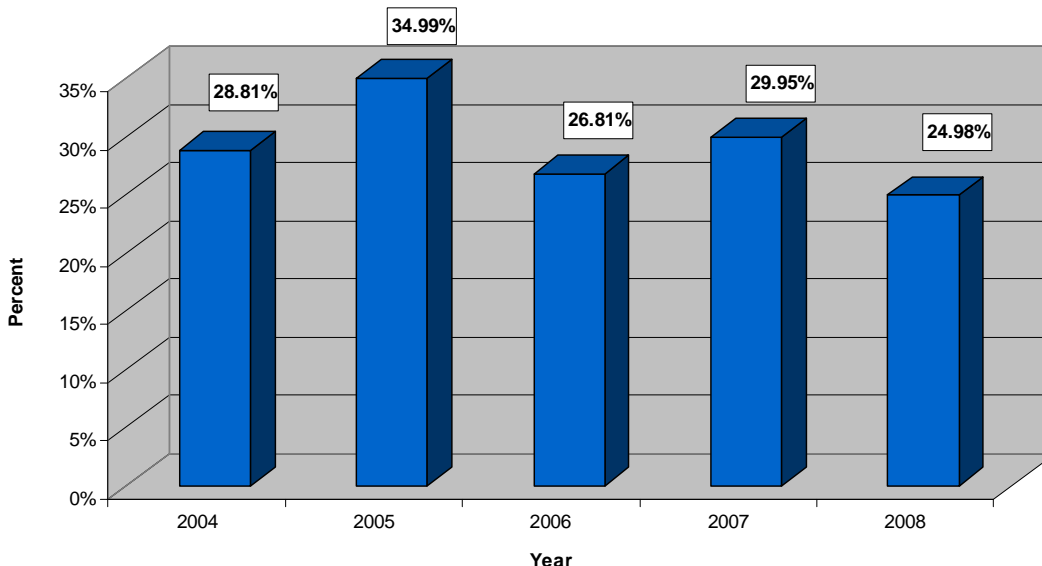
Residential/Commercial Waste Reduction/Recycling and Education Strategies

Estimated future Residential/Commercial Sector waste reduction projections were based on the following:

- Average annual rate of District population change over the planning period (0.62 percent);
- Recycling potential of each individual recycling and source reduction program; and
- Length of time the program has been in existence.

Figure II-24 depicts SWACO’s historical waste reduction rate for the Residential/Commercial Sector.

Figure II-24 – SWACO Historical Residential/Commercial Waste Reduction Rate



Residential/Commercial Recycling and Collection Programs

The following programs will continue:

- SWACO-RP-1 - Non-Subscription Curbside Recycling
- SWACO-RP-2 - Subscription Curbside Recycling
- SWACO-RP-3 - Drop-off Recycling
- SWACO-RP-4 - Yard Waste Management
- SWACO-RP-5 - HHW Collection and Processing

- SWACO-RP-6 - Facility Solid Waste Management Planning
- SWACO-RP-7 - Electronics Recycling
- SWACO-RP-8 - Tire Recycling
- SWACO-RP-9 - City of Columbus Recycling Programs
- SWACO-RP-10 - Organics Collection and Processing System

Specific changes to existing programs listed above are provided in Section V.

The following program will no longer continue:

- Just In Time Recycling (JITRS)

Education and Community Awareness Programs

The following programs will continue:

- SWACO-EA-1 - Smart Communities
- SWACO-EA-2 - School District Recycling
- SWACO-EA-3 - Teacher Technical Assistance
- SWACO-EA-4 - Teacher Workshops
- SWACO-EA-5 - Classroom Presentations
- SWACO-EA-6 - News From SWACO
- SWACO-EA-7 - Landfill Tours
- SWACO-EA-8 - Special Events
- SWACO-EA-9 - Central Ohio Emeralds Awards
- SWACO-EA-10 - SWACO Website
- SWACO-EA-11 - Environmental Steward Office - City of Columbus Partnership

The following programs are new programs:

- SWACO-EA-12 - Social Media
- SWACO-EA-13 - Communications Plan

Specific changes to existing programs listed above are provided in Section V.

The following programs will no longer continue:

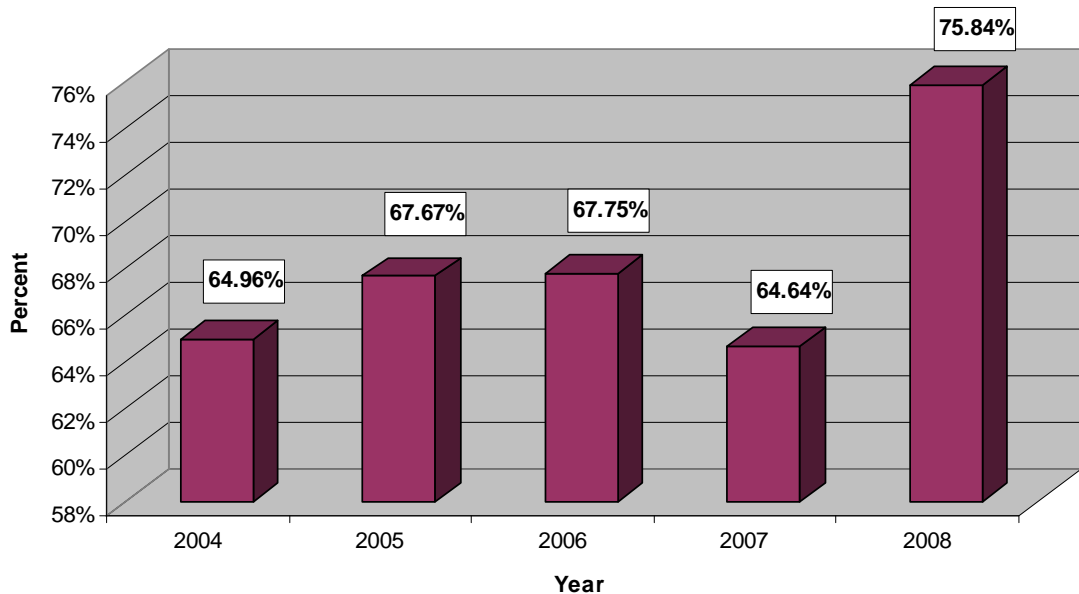
- Center of Science and Industry (COSI)
- Columbus Zoo & Aquarium (CZA) My House/Education Grant
- Resource Library

Industrial Waste Reduction Strategies

SWACO projects that the amount of Industrial Sector recycling will stay constant throughout the planning period. Industrial Sector recycling is held constant relative to the projected Industrial Sector waste generation. Since Industrial Sector generation is projected to decrease and then increase, the Industrial Sector recycling tonnages are projected to decrease and increase as well. The relative rate of recycling (percentage) is held constant at 53 percent, which is the rate of recycling in the reference year.

Figure II-25 depicts SWACO’s historical waste reduction rate for the Industrial Sector.

Figure II-25 – SWACO Historical Waste Reduction Rate



Industrial Recycling and Waste Reduction Programs

The following programs will continue:

- SWACO-IP-1 - Solid Waste Assessments
- SWACO-IP-2 - OMEG and Local Recyclers (link provided on SWACO website)
- SWACO-IP-3 - Business Round Table

Specific changes to existing programs listed above are provided in Section V.

The following program is a new program:

- SWACO-IP-4 - Business Outreach

Other Programs

Litter and Illegal Dumping Programs

The following programs will continue:

- SWACO-LID-1 - Anti-Litter and Illegal Dumping Programs
 - Adopt-a-Roadway
 - Environmental Crimes Task Force of Central Ohio (ECTF) (Formerly: Nail-a-Dumper)
 - Litter Marshall
 - Litter Management
- SWACO-LID-2 - Franklin County Emergency Management Agency (FCEMA) Debris Management Plan
- SWACO-LID-3 - Health Department Support

Specific changes to existing programs listed above are provided in Section V.

Other Programs

The following programs will continue:

- SWACO-OP-1 - Strategic Planning and Program Development
- SWACO-OP-2 - Solid Waste Plan Update and ADR
- SWACO-OP-3 - Market Development
- SWACO-OP-4 - SWACO General Grants Program
- SWACO-OP-5 - Surveys - SWACO Computer Survey Systems
- SWACO-OP-6 - SWACO Solid Waste Consortiums

Specific changes to existing programs listed above are provided in Section V.

The following programs are new programs

- SWACO-OP-7 - Programs and Facilities Advisory Committee (PFAC)
- SWACO-OP-8 - Wasteshed Planning

6. SWACO Infrastructure

The following components of the infrastructure program will continue:

- Franklin County Sanitary Landfill
- SWACO Transfer Facilities
- Green Energy Centre Landfill Gas Recovery
- Central Ohio Transformation Center (formerly WTEF Multi-Plex Enterprise)
- Anaerobic Digester
- Other Infrastructure Facilities

Specific changes to existing programs listed above are provided in Section V.

The following programs are new programs:

- Digital-On-Container Tracking System (DOTS)
- SWACO Collection Operations
- SWACO Waiver Program

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

Section VI presents the District's methods for managing solid waste. It includes management methods, a siting strategy and a demonstration of capacity for the planning period 2011-2025.

1. SWACO Methods for Management of Solid Waste

The following Figures II-26, II-27, II-28, II-29 and II-30 depict the District's overall landfill disposal, residential/commercial landfill disposal, industrial landfill disposal, yard waste and waste reduction projections for all sectors for the entire planning period.

Figure II-26 – Total Landfill Tons to be Managed by SWACO (2008 – 2025)

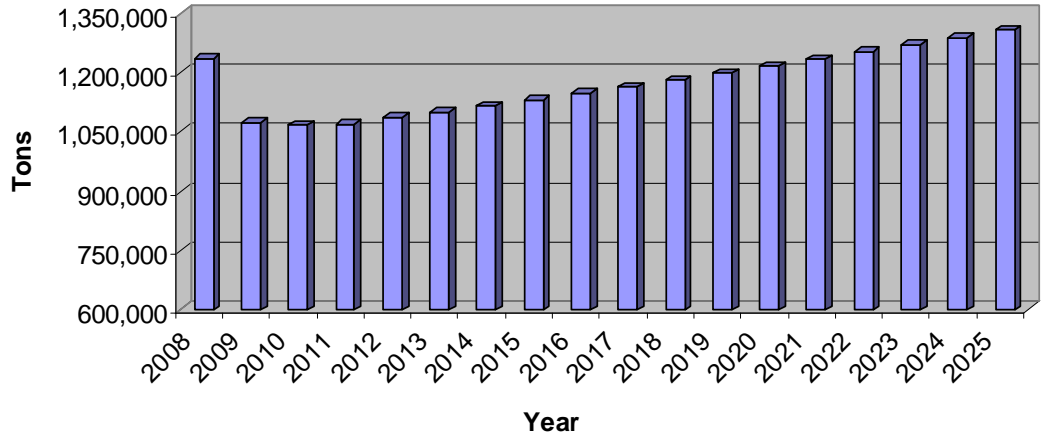


Figure II-27 – SWACO Residential/Commercial Landfill Projections (2008 – 2025)

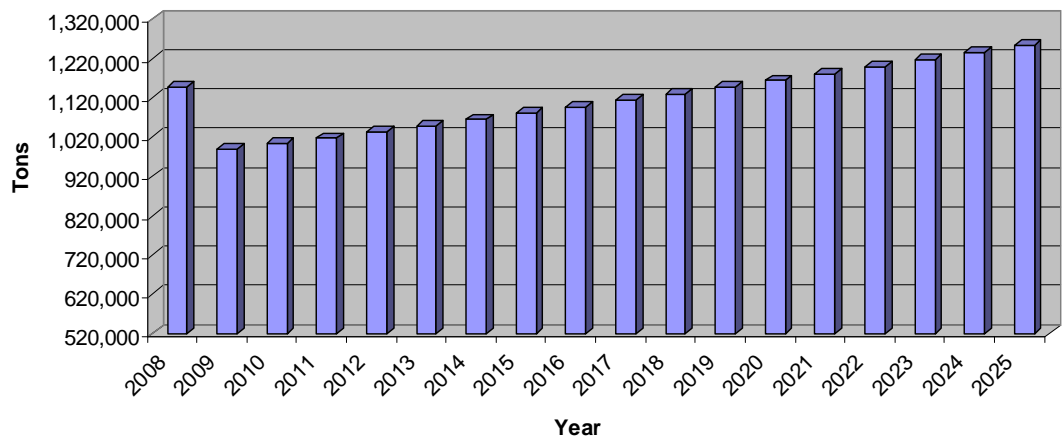


Figure II-28 – SWACO Industrial Landfill Projections (2008 – 2025)

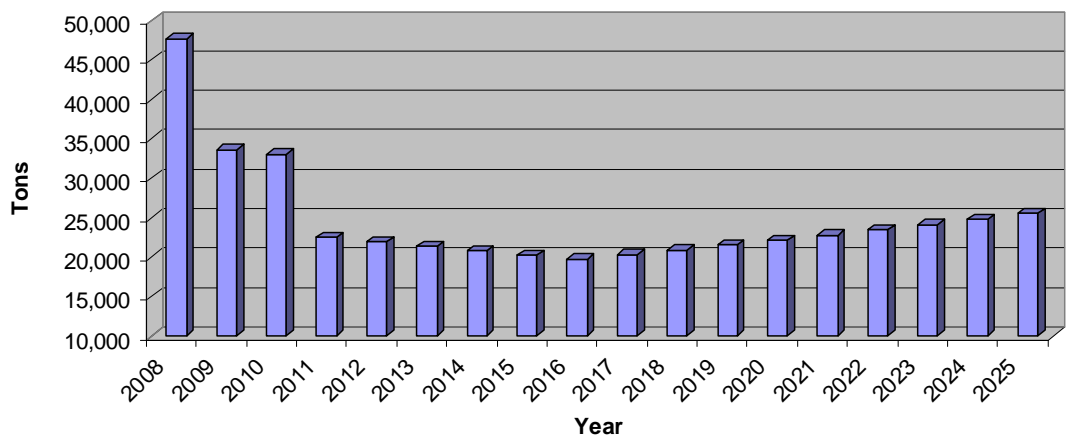


Figure II-29 – SWACO Waste Reduction Projections (2008 – 2025)

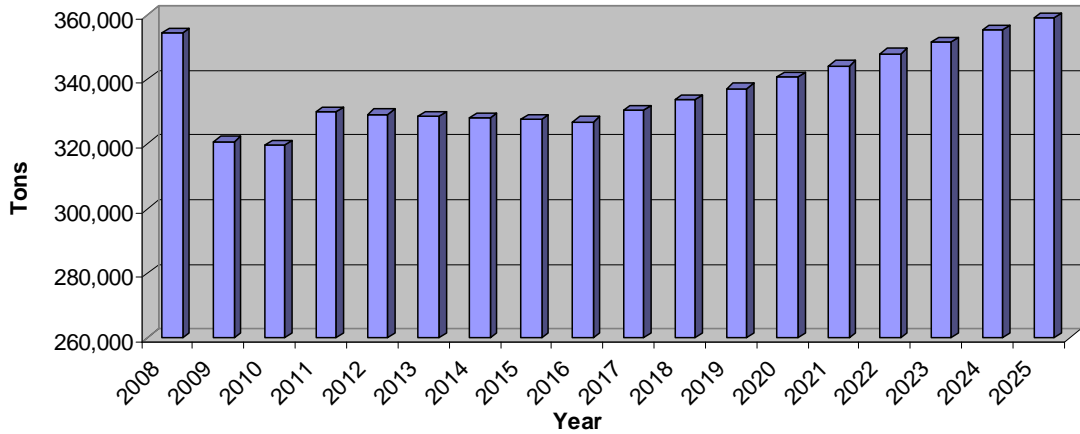
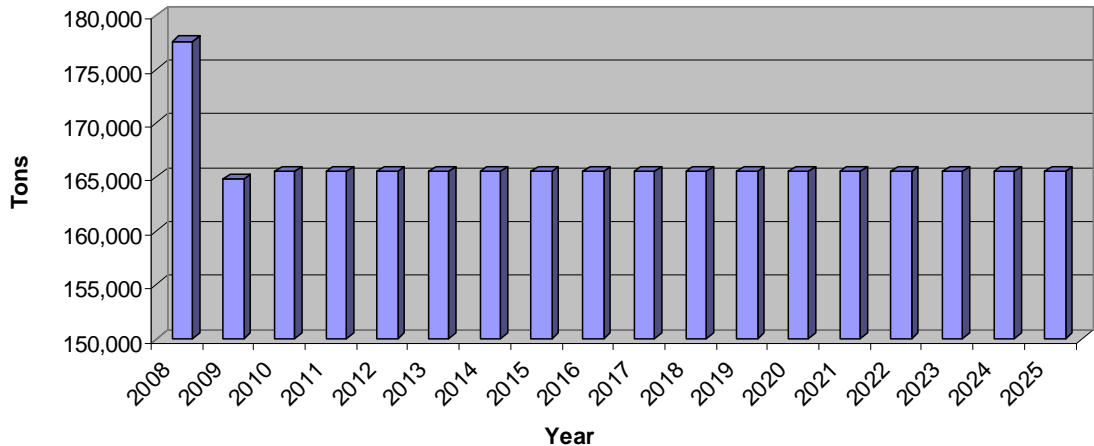


Figure II-30 – SWACO Yard Waste Composting Projections (2008 – 2025)



2. Demonstration of Access to Capacity

During the 2008 reference year, 12 landfills managed 1.2 million tons of solid waste generated by SWACO residents, businesses and industries. SWACO’s Landfill managed nearly 846,000 tons in 2008 or sixty-eight percent of the waste that was landfilled.

The Franklin County Sanitary Landfill has over twenty-nine years of landfill capacity remaining based on 2008 average daily waste receipts.

Regional Capacity Analysis

SWACO conducted a review of landfill capacity in Central Ohio. The purpose of the review is to determine whether alternative

landfill capacity is available in the event SWACO's Landfill is unable to landfill waste at the Franklin County Sanitary Landfill. Figure II-31 identifies selected nearby landfill facilities that could provide SWACO with additional landfill capacity if necessary. The remaining capacity was determined at the end of 2008.

Figure II-31 Regional Landfill Capacity and Distance From SWACO		
Landfill	Remaining Capacity (Years)	Distance From SWACO (Miles)
Cherokee Run Landfill	6	48
Pine Grove Landfill	52	27
Suburban South Landfill	15.2	52
Wyandot Landfill	109.8	74
Beech Hollow Landfill	42.3	80
Stony Hollow Landfill	5.6	74

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

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

SWACO recognizes that community input and involvement is vital to the successful management of material within the District including development of emerging waste reduction strategies, viable new facilities, and thriving District programs. Therefore, SWACO will establish a new "Programs and Facilities Advisory Committee" ("PFAC") to assist SWACO in the evaluation of new programs and proposals to site, construct and operate any new solid waste facilities within the District.

4. Identification and Designation of Facilities

SWACO has designated the Franklin County Sanitary Landfill and Georgesville Road, Morse Road and Jackson Pike Transfer Facilities as facilities that can accept solid waste generated within SWACO.

5. Authorization Statement to Designate

The Board of Trustees of SWACO is authorized to establish facility designations in accordance with Section 343.013 or 343.014 of the Ohio Revised Code. The facilities listed in Table II-32 are facilities designated by the Board of Trustees.

Figure II-32 – Facilities Currently Designated	
Facility Name	Location
SWACO Franklin County Sanitary Landfill	Franklin County, Ohio
SWACO-Jackson Pike Transfer Facility	Franklin County, Ohio
SWACO-Georgesville Road Transfer Facility	Franklin County, Ohio
SWACO-Morse Road Transfer Facility	Franklin County, Ohio

6. Waiver Process for the Use of Undesignated Facilities

The District’s waiver process is detailed both in scope and context. The full version of the process is included in Section VI.

7. Siting Strategy for Facilities

The District’s siting strategy is detailed both in scope and context. The full version of the process is included in Section VI.

8. Contingencies for Capacity Assurance and Authority Program Implementation

SWACO does not anticipate capacity assurance or program implementation issues during the planning period. The Franklin County Sanitary Landfill has more than fifteen year’s capacity available. There are several landfills in Central Ohio with the capability to provide capacity if an emergency arose with the Franklin County Sanitary Landfill.

SWACO is in the process of evaluating proposals for a facility to contract for capacity assurance. SWACO will deliver the waste at a time and in amounts as SWACO determines to be necessary. This contract is part of SWACO’s contingency for capacity assurance. If an emergency arises with the SWACO Franklin County Sanitary Landfill, the Board of Trustees will meet to determine potential action.

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

Compliance with Goal #1

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

1. Residential Sector

Figure II-33 summarizes the total population access credit and access rate in SWACO for the reference year (2008) and the first year of the planning period (2011).

Figure II-33 – Total Population Access Credit		
SWACO Service Area	Reference Year 2008	First Year of Planning Period 2011
Population with Access	1,371,941	1,337,449
Population	1,160,301	1,184,472
90 Percent of Population	1,044,271	1,066,025
Percent Access	118%	113%

If the City of Columbus implements a non-subscription curbside recycling program in 2012, the access credit for the City of Columbus will increase to match the 2012 population projection for the City of Columbus. The addition of population access credit for the entire City of Columbus will assist SWACO in far exceeding the access requirement.

2. Commercial/Institutional Sector

Methods of providing access for the Commercial/Institutional Sector entities include hauler pickup, and drop-off (or buyback) availability. SWACO has designated four materials for the Commercial/Institutional Sector including cardboard, office paper, aluminum containers and steel containers. The entities identified in Figure II-34 supply drop-off and/or pick-up services for the entire service area and are organized by material.

Figure II-34 – Commercial/Institutional Sector Access		
Material	Entity	
	Hauler/Pick Up	Drop-off
Cardboard	Royal Document Destruction Commercial	Recycling Exchange North, Royal Document

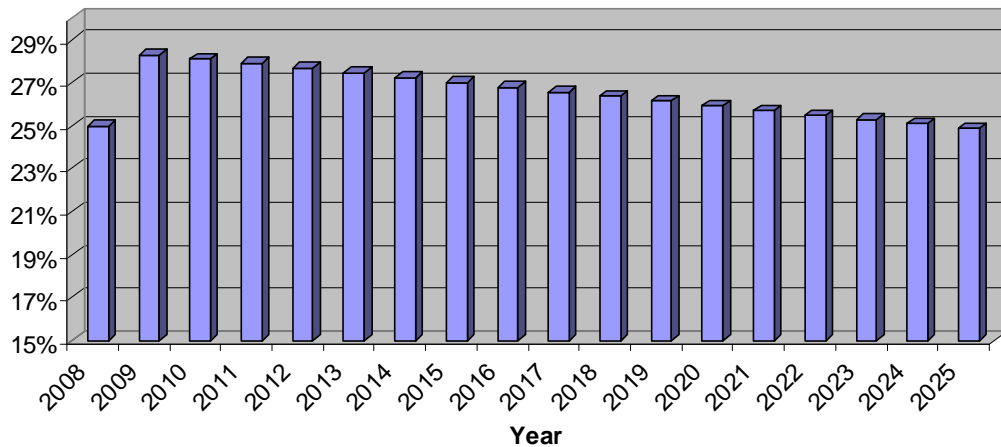
Figure II-34 – Commercial/Institutional Sector Access		
Material	Entity	
	Hauler/Pick Up	Drop-off
	Collection Route, Waste Management Commercial Collection Route, Rumpke Commercial Collection Route, Republic Services Commercial Collection Route, Local Waste Commercial Collection Route	Destruction, Shred-It, The Grossman Group, Inc., SWACO Recycling Drop-offs
	Hauler/Pick Up	Drop-off
Office Paper	Royal Document Destruction Commercial Collection Route, Waste Management Commercial Collection Route, Rumpke Commercial Collection Route, Republic Services Commercial Collection Route, Local Waste Commercial Collection Route	Abitibi Bowater, Royal Document Destruction, Shred-it, The Grossman Group, Inc., SWACO Recycling Drop-offs
	Hauler/Pick Up	Drop-off
Aluminum Containers	Waste Management Commercial Collection Route, Rumpke Commercial Collection Route, Republic Services Commercial Collection Route, Local Waste Commercial Collection Route	CycleMET, Inc., I.H. Schlezinger, Inc., PSC Metals, Recycling Exchange North, SWACO Recycling Drop-offs
	Hauler/Pick Up	Drop-off
Steel Containers	Waste Management Commercial Collection Route, Rumpke Commercial Collection Route, Republic Services Commercial Collection Route, Local Waste Commercial Collection Route	CycleMET, Inc., I.H. Schlezinger, Inc., PSC Metals, SWACO Recycling Drop-offs

The four primary waste haulers operating in SWACO’s jurisdiction all collect the four designated materials from the Commercial/Institutional Sector as well as glass, plastic and mixed paper. All of SWACO’s recycling drop-offs accept the four designated materials as well as glass, plastic and mixed paper from the Commercial/Institutional Sector. There are also a number of facilities listed in the figure above, which have drop-offs or allow businesses to bring their materials to the facilities.

3. Residential/Commercial Sector Annual Rate of Waste Reduction

In the reference year 2008, SWACO had a reduction rate of 25 percent in the Residential/Commercial Sector. In the first year of the planning period (2011), the waste reduction rate for the Residential/Commercial Sector waste is projected to be 27 percent. The District anticipates the waste reduction will decrease to 24 percent by the end of the planning period (2025). This trend may be observed in Figure II-35.

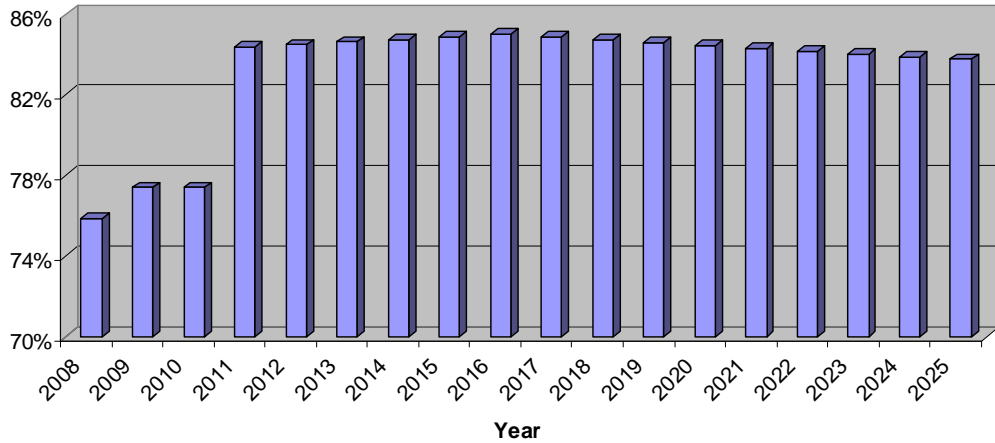
Figure II-35 – SWACO Residential/Commercial Sector Waste Reduction Percentage (2008 – 2025)



4. Industrial Sector Annual Rate of Waste Reduction

In the reference year 2008, SWACO had a reduction rate of nearly 76 percent in the Industrial Sector. During the first year of the planning period, SWACO projects waste reduction in the Industrial Sector will reach 84 percent. The District anticipates the waste reduction will remain within one percent of 84 percent for the duration of the planning period. This trend is depicted in Figure II-36.

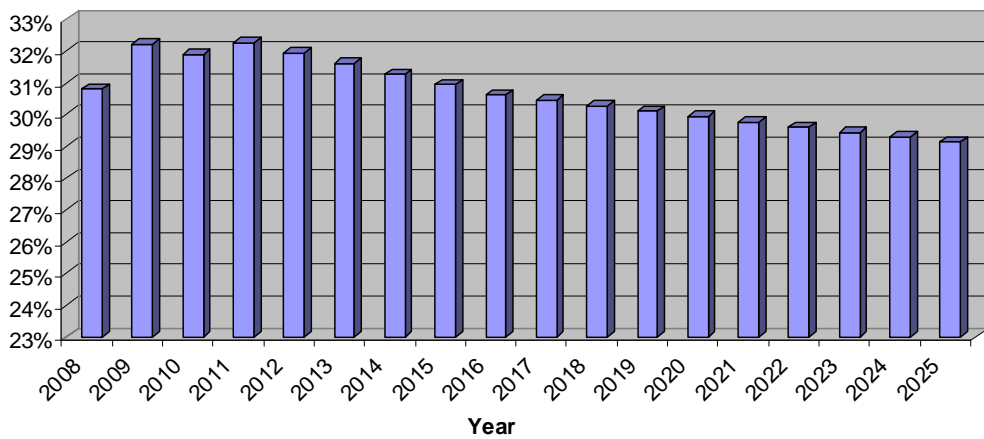
Figure II-36 – SWACO Industrial Sector Waste Reduction Percentage (2008 – 2025)



5. District Total Rate of Waste Reduction

In the reference year 2008, SWACO had a total waste reduction rate of 30.8 percent. In the first year of the planning period (2011), the total waste reduction rate is projected to be 32.3 percent. The rate decreases to 29.1 percent by the end of the planning period (2025). This downward trend may be observed in Figure II-37 and it is attributed, primarily, to the projected increase in waste generation from the Residential/Commercial Sector and decrease in Industrial Sector generation.

Figure II-37 – SWACO Total Waste Reduction Percentage (2008 – 2025)



G. Section VIII. Cost and Financing of Plan Implementation**1. Funding Mechanisms****Generation Fee**

SWACO does not collect a disposal fee. SWACO receives revenue from a \$5.00 per ton generation fee established under Division (A) of ORC Section 3734.573. The generation fee provides funding for plan implementation programs and activities. The generation fee schedule is projected to provide \$5.2 million in revenues in the first year of the planning period. Generation fee funding is projected to increase to \$6.4 million by 2025 based on waste disposal projections. The economic downturn has significantly impacted the revenues from the generation fees during the past two years. Actual generation fee revenues may be lower than the projections presented in the Plan. SWACO will make adjustments to internal budget processes to account for actual revenues received during the planning period.

Revenues

Estimated revenues include Generation Fees, Grants and Project income. Tipping fees and waiver fees are not included. Revenues from grants include ODNR and other government agency grants. SWACO is not including grant funding for the planning period due to the uncertainty of grant funding availability, and the fact that the requirements and opportunities to obtain grants change annually. Other income includes sale of recyclables, other program revenues, and program reimbursements.

2. Cost of Plan Implementation

There is an outstanding General Obligation Bond Issued in 2008. This bond included \$744,242 worth of SWACO plan activity assets, including two front packer trucks; 160 drop box containers; and a Compressed Natural Gas (CNG) recycle truck. The bond has a 4 percent interest rate with a loan length of five years. This package was part of a \$20 million dollar SWACO bond issue.

3. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 37334.573

The majority of SWACO's budget is devoted to Plan Implementation.

4. Contingent Funding

This *Plan Update* does not anticipate that SWACO will increase the generation fee during the planning period. While SWACO may use a combination of funding mechanisms to finance implementation of the Plan, SWACO may consider the option to raise the generation fee if the Board determines that funding of Plan activities is inadequate and other options are less preferable.

If additional funding or alternative funding is determined to be necessary by the Board, SWACO may consider options that include user fees, tipping fees, rates and charges, system fees, contract fees, generation fees, waiver fees or other revenue generating mechanisms to support the implementation of the Plan.

5. Summary of Costs and Revenues

SWACO has a positive year end cash flow for each of the fifteen years in the planning period. At the end of the planning period in 2025, SWACO anticipates a carryover of nearly \$1.2 million dollars.

H. Section IX. Rules

1. Existing Rules

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

2. Proposed Rules

There are no new rules proposed at this time. SWACO reserves the right to promulgate rules in accordance with 343.01(G) to assist in implementing any or all strategies necessary to achieve the waste management goals of this amended *Plan Update*.

**Table ES-1
General Information**

District Name: Solid Waste Authority of Central Ohio	
District ID #	Reference Year 2008
(for OEPA use only)	
Plan Status (underline one)	
<u>D</u> <u>RD</u> <u>DR</u> <u>Approved (date)</u> / / <u>OI (date)</u> / / <u>DA</u>	Reason for Plan Submittal: Mandatory five year update

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

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

Name: Mr. Ronald J. Mills, Executive Director	
Address: 4149 London-Groveport Rd.	
City: Grove City	State: Ohio
Phone: (614) 871-5100	Zip: 43123
Fax: (614) 871-5103	

Table ES-3
Plan Data Summary

Plan Data	Reference Year 2008	2016 (year 5)	2021 (year 10)	2025 (year 15)
Population	1,160,301	1,225,979	1,269,076	1,304,749
Industrial	197,467	131,354	145,025	156,980
Res/Comm	1,529,419	1,476,966	1,567,492	1,644,026
Exempt	40,666	30,000	30,000	30,000
Total Generation (tons)	1,767,553	1,638,320	1,742,517	1,831,006
Waste Reduction	0	0	0	0
Industrial Source Reduction	149,760	111,648	122,227	131,478
Industrial Recycling	0	0	0	0
Res/Comm Source	204,483	215,335	222,057	227,585
Res/Comm Recycling	177,596	165,500	165,500	165,500
Yard Waste Composting	0	0	0	0
MSW Composting	0	0	0	0
Incineration	0	0	0	0
Total Waste Reduction (tons)	531,839	492,483	509,784	524,564
Disposal	845,992	1,145,837	1,232,733	1,306,442
In-District Landfills	389,721	0	0	0
Out of District Landfills	1,235,713	1,145,837	1,232,733	1,306,442
Total Landfill (tons)	1,235,713	1,145,837	1,232,733	1,306,442
Waste Reduction Rate	75.8%	85.0%	84.3%	83.8%
Residential/Commercial	25.0%	25.8%	24.7%	23.9%

**Table ES-4
Existing Disposal Facilities**

Name	County	District Tons	Total Tons	Years Left
In-District Facilities				
SWACO Franklin County Landfill	Franklin	484,309	22,900,959	29.4
Out-of-District Facilities				
Cherokee Run Landfill	Logan	23	2,504,834	6.23
Pine Grove Regional Facility (Republic)	Fairfield	6,432	12,605,853	52.3
Rumpke Sanitary Landfill Colerain Twp.	Hamilton	14	30,418,628	14
Mahoning Landfill	Mahoning	12	2,123,427	7.7
Beech Hollow Landfill (Rumpke)	Jackson	8,090	19,372,000	42.3
Stony Hollow (Waste Mgmt)	Montgomery	1	1,989,180	5.6
American Landfill (Waste Mgmt)	Stark	1	69,224,116	71.8
Suburban Landfill (Waste Mgmt)	Perry	116,086	8,909,620	15.2
Evergreen Recycling & Disposal (Waste Mgmt)	Wood	2	7,198,487	26.8
Kimble Sanitary Landfill Landfill (Penn-Ohio Coal)	Tuscarawas	2	32,348,541	84.5
Wyandot Landfill (Republic)	Wyandot	0	19,874,352	100
Out-of-State				
None	N/A	0	0	0
Total (Average Years)		614,972	229,469,997	35