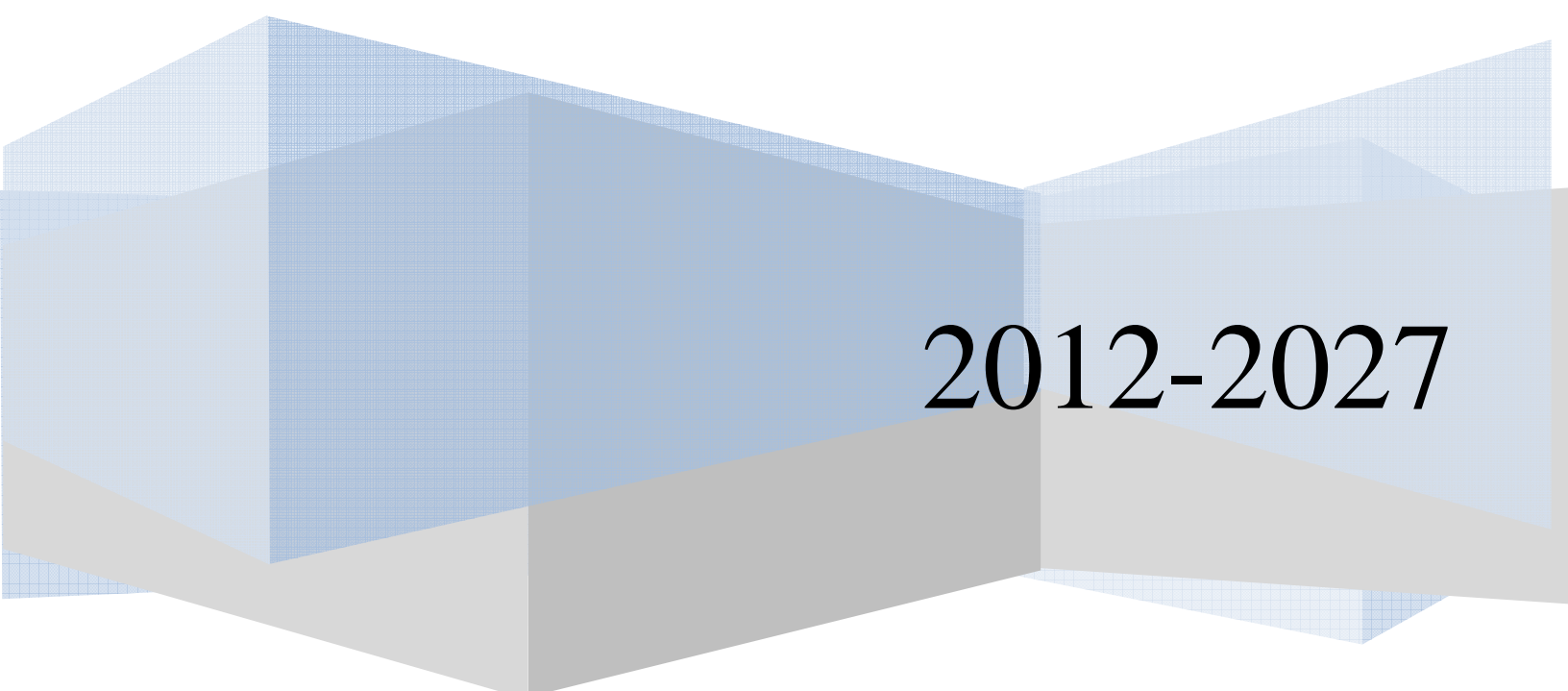


**VAN WERT  
SOLID WASTE  
MANAGEMENT  
DISTRICT**  
Revised Draft Plan



2012-2027

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## I. THE 2012-2027 PLAN

Included herein is the mandatory five year update to the Van Wert Solid Waste Management District (District) Solid Waste Management Plan. This update replaces the plan approved by the Ohio Environmental Protection Agency (EPA) on October 24, 2005. The updated plan will be in effect from the approval date through 2027. This plan update has been written by District staff under the direction of the District Policy Committee with technical support provided by the Ohio EPA.

The planning process follows:

1. District generates a draft plan for Van Wert County Commission (Board) and District Policy Committee (PC) approval;
2. the Board and PC approved draft plan submitted to Ohio EPA;
3. plan made available for thirty (30) day review and comment period;
4. the PC will review and evaluate comments and, if necessitated by the review process, make adjustments to the plan;
5. the plan will be presented to each municipality and township legislative body for approval within a ninety (90) day ratification period;
6. upon approval of the Board, the largest municipality within the District, and municipal and township authorities representing at least sixty percent (60%) of the District Population, the plan will be returned to the Ohio EPA for final approval.

In addition to the aforementioned five year update, Ohio law requires that solid waste management district plans be updated when the District Board, determines that there has been a material change in circumstances from those addressed in the approved plan. If a change in material circumstances necessitates a plan update said update will address the portion(s) of the plan correlating to the needed change. The Board will determine a material change in circumstances pursuant to Ohio Revised Code (ORC) 3734.56(D) through the assessment of changes including:

1. facility designations (addition of a facility to the list of designated facilities need not be a material change);
2. waste generation;
3. capacity available for disposal, transfer, composting, etc.;
4. strategies for waste reduction and/or recycling;
5. availability of revenues for plan implementation;
6. procedures to be followed for plan implementation; and
7. other matters the Board deems prudent to necessitate change in circumstances.

### **District, District formation and administration**

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

The District was formed in 1992 under the mandates of House Bill (H.B.) 592 to prepare and administer a plan for the safe and sanitary management of solid waste generated in the District for a minimum of ten years.

The **District Policy Committee** (PC) is responsible for the creation and monitoring of the plan. The District PC includes the following members:

1. Gary Adam's, representing the Board of County Commission
2. Al Arnold, representing high school, vocational and post high school education
3. Greg Germann representing the Township Trustees (Chair)
4. Steve Hall, advisory representing the waste industry

5. John Marshall, representing the City of Van Wert
6. Jason Menchhofer, representing the Van Wert Area Health Department (Vice Chair)
7. Pat Morris, representing elementary education and public sector
8. Kyle Wendel, county engineer/public sector
9. Robert Wolke, representing commercial and industrial

Because the District is a single county district, the **District Board of Directors** (Board) includes all three members of the Van Wert County Commission. The Board consists of the following members that corporately are responsible as the main governing body of the District:

1. Gary Adams, Chairman
2. Clair Dudgeon
3. Thad Lichtensteiger

The day-to-day administration of the District is the responsibility of the District Director, George Brake. District contact information is as follows:

George Brake, Director  
Van Wert Solid Waste Management District  
1135 North Washington Street  
Van Wert, OH  
45891-9491

Telephone: 419 238-7767  
Fax 419 238-7244  
Email: [recyclevw@bright.net](mailto:recyclevw@bright.net)  
Web: [recyclevw.org](http://recyclevw.org)

On occasion, as deemed prudent by the Board and/or PC, an advisory committee is created for a specific endeavor such as compost facility upgrades or building project planning. Otherwise the District does not have a standing technical or advisory committee.

## II. EXECUTIVE SUMMARY

The District has been successful in providing recycling opportunities and services that offer cost effective and convenient access to virtually every resident and to the commercial, industrial and institutional community. Curbside recycling collection continues to be provided for seven villages and the city of Van Wert and numerous small commercial, institutional and industrial accounts. Drop-off recycling collection is provided for eleven of the twelve townships including a drive-through drop-off located in Van Wert adjacent to the largest shopping center within the District. All District collected materials are processed through the District Material Recovery Facility (MRF) located in conjunction with the recycling center and the compost facility.

A reliable and diverse funding mechanism is in place that requires a minimal tax burden on the District population. The core sources of the funding include designation fees applied to waste generated within the District, an assessment on improved parcels based on the level of service provided, service fees, and recycling materials sales. The District has also been successful in obtaining Ohio Department of Natural Resources, Division of Recycling and Litter Prevention, grant funds and equipment donations to lessen the budgetary impact of infrastructure investment. Labor from the County Correctional facility has helped control the cost of processing at the District Material Recovery Facility (MRF). Additional free labor is provided through the court system community service programs and through the Job and Family Services Agency. Intergovernmental recycling service contracts provide additional revenue to the District and a reliable recycling collection and processing service for Allen and Putnam Counties.

In 2009 the District's budget was severely impacted by a considerable drop in the recycling markets in 2008. This impacted the ability to fund nonessential programs and activities, provide in-kind grant match dollars and pursue program growth. It also resulted in the loss of staff and reduction in staff labor hours.

The District, as outlined herein, will continue to evaluate and, when prudent, pursue opportunities for program expansion and greater public outreach and education.

### **Implementation Status of Previously Approved Plan Overview**

Because of the economy, activity cost, and limitations in staff the District was unable to fully complete all of the activities of the current plan. The program activities that had the greatest impact on waste reduction were given the highest priority. The HHW collection event and the creation of an industrial newsletter and recycling awards program were not fully executed. Some of these programs are not included in the Plan rewrite because of what is now perceived as a limited return on the investment in staff and dollars. A HHW collection event or smaller HHW collection activities will remain as potential activities of this Plan update.

### **Implementation status of existing plan Section V. (3) Planning period goals and strategies**

The MRF expansion project was completed and a new auto tie baler was purchased and installed. Four additional vertical balers were purchased to process/store materials allowing for the capability of accepting a greater number of materials without the need for preprocessing storage space. A material flow monitoring system and central recycling bin gate control system have been installed on the baler operations platform improving baler efficiency and safety. Numerous other improvements in operations and safety have been implemented.

Education/information (awareness) programs have been expanded to include monthly news releases, full and half page ads, facility tours, presentations for schools and civic groups, an ongoing banner on a local internet paper, television and radio spots, parade participation, printed material distribution, a web page, interaction with commercial and industrial representatives at social events, Earth Day events, and other activities.

District staff consults with all the area school systems to continually improve the effectiveness of their recycling program. Regular and special application recycling bins are provided for classroom and commons areas as well as athletics and other special venue activities. These other special venue activities include entities such as the City of Van Wert Parks and Recreation Department and the Van Wert County Fair Board.

The recycling center now accepts appliances, e-waste, florescent bulbs, lead acid batteries, tires, used motor and hydraulic oil. Printed material for proper disposal of latex paint and other special waste materials are available at the recycling center.

The recycling center has new signs, new library space for used books, new overhead door control system in the office, a video monitoring system, drop and swap rack for gently used items, refurbished bins and additional bins for plastic bags, vinyl siding and scrap metal, improved lighting, and additional collection bins for the addition of materials collected. The general large truck and commercial drop-off area located at the north end of the MRF building is improved with a 60' x 40' concrete approach and new signage.

The list of recyclables increased in response to commercial and industrial sector needs as detailed in the strategic planning initiative of year 2000. Added were vinyl siding, florescent light tubes, plastic shopping bags, shrink wrap, ABS & PS plastic, mixed bulk plastic, and one through seven residential use plastics.

The small commercial, institutional and industrial collection has expanded from single digit numbers to include over 120 participants within the District. Facility waste audits are performed at no cost to the facility. The District also encourages key facility staff to tour the MRF as an opportunity to provide visual recognition of the potential value of their facilities recycling program. The District partners and consults with public and private sectors to provide educational outreach and recycling services.

A twenty-six foot long box truck and a roll-off collection trailer system with six roll-off bins were purchased for nonresidential collection. Grant dollars were used every year but 2009 on major capital asset acquisitions. In 2009 the District did not have the necessary matching dollars to support a grant proposal.

The District did not increase waste designation fees as per the existing plans 2009 schedule. The Board added a one dollar (\$1.00) per improved parcel fee increase to cover fund administration cost incurred by the county auditor.

### **Inventories**

The reference year for the Plan is 2008. Specific information on the reference year inventories can be found in Section III, "Inventories".

**Table ES-1** summarizes District population, waste generation, disposal and recycling estimates for reference year 2008, year 2010, and projections for 2015, 2020, and the last Plan year 2027.

**Table ES-2** provides information on landfills and transfer stations serving the District. Also servicing the District are seven waste haulers, one auto scrap yard and two scrap yard/brokers.

All waste generated in the district, with a few exceptions, is transported to BOARD designated disposal facilities in Ohio and Indiana as detailed in Section III. These facilities contain adequate capacity to serve the Districts solid waste disposal needs during the planning period. Seven landfills, three transfer stations and one compost facility were identified as receiving waste from the District in 2008. These facilities, along with additional information pertaining to them, are listed in **Table III-1, III-2 and III-6**.

There are no incinerators or ash, foundry sand, and slag disposal site located in the District.

The District maintains a comprehensive recycling collection program that includes: a Recycling Center complex with a drive through drop-off, a material recovery facility, and a Class 4 compost facility; ten township drop-offs; weekly curbside recycling service and; school, nonprofit, com/industrial recycling collection. In total, there are nine known recycling activities, brokers and/or services listed in Section III.

It is the Districts intention to continue the existing programs and services through the life of the planning period unless precluded from doing so by budgetary restraint, changes in applicable law, or other unforeseen challenges. The District will also respond to, and if deemed prudent, pursue as-of-yet unforeseen opportunities, not listed in this Plan, that improve upon the District's ability to fund, enforce rules, improve efficiency and provide services to the communities and individual units served. More specific information on the reference year inventories can be found in Section III.

### **Reference Year Population, Waste generation, and Waste Reduction**

The population of the county has been adjusted to calculate an accurate number of residents in the District. The populations of the City of Delphos and Scott Village have been deducted from the District's population. Both are split by county boundaries with the largest population located outside of the District.

According to the disposal rate prepared by Ohio EPA "**Annual District Review and Report for 2008**" 14,573 tons of District residential/commercial waste was disposed of in landfills in 2008. According to the data from the aforementioned sources the District maintained a residential/commercial disposal rate of 3.04 pounds-per-person-per-day for the reference year. There were 5,328 tons (26.77%) of residential/commercial waste reduced or recycled during the reference year. More specific information on reference year population, waste generation, and waste reduction can be found in Section IV.

### **Planning Period Projections and Strategies**

The 15 year period for population projections coincides with the planning period for the District. The District population is adjusted to subtract portions of Delphos (3,043 people) and Scott (204 people) villages that are included in the county boundaries but are not part of the District. The population projections for the District from 2010 to 2027 are shown in Table V-1. The population projections were computed by the Ohio Department of Development, Office of Strategic Research, for the years 2010, 2015, 2020 and 2025. The remaining years were calculated by interpolating a straight-line projection. The District's population is expected to decrease from 26,221 residents in 2008 to 25,303 residents in 2027.

The District used Ohio EPA per capita residential/commercial waste generation recommendations, dated 9/4/02 to calculate the residential/commercial waste generation through 2010. Beyond 2010 the District extrapolated the .02 pounds-per-person-per-day annual increase.

Throughout the planning period, 2010 to 2027, the total residential/commercial/industrial generation of waste will see a gradual decrease from 35,728 tons in 2008 to 34,756 tons in 2027. The district will see a decrease in population by approximately 687 persons. Information on total waste generation during the planning period can be found in **Tables V-4**. Estimated residential, commercial and industrial waste composition can be found in **Tables IV-10** and **IV-11**.

The District is planning only moderate program modification for the planning period. The Plan includes:

Over the term of this update the District intends to:

- Continue to invest in upgrading or replacing an ageing fleet of collection vehicles. These investment are considered normal expenditures
- Continue to seek opportunities to improve and expand education and outreach as they become available and reasonably fundable
- Continue to seek opportunities to improve and expand recycling collection including the evaluation of single stream collection
- Continue to seek opportunities to improve and expand material processing including the evaluation of single stream processing
- Continue to seek opportunities, events and/or activities that will reduce household hazardous waste inventories within the District.
- Implement data gathering and processing system improvements

More specific information on planning period projections and strategies can be found in Section V.

### Methods of Management: Facilities and Programs to be Used

All waste generated in the district is exported to BOARD designated landfills in Ohio and Indiana as detailed in Chapter III. These facilities contain adequate capacity to serve the District's solid waste disposal needs throughout the planning period. More information on methods of management, facilities and programs can be found in Section VI.

### Measurement of Progress Towards Waste Reduction Goals

The District is currently in compliance with Goal #1 of the State Solid Waste Management Plan (1995). This goal requires that recycling opportunity for at least seven of eleven materials are available to 90 percent of the District population and that each sector of waste generators has access to at least four of the aforementioned materials. The District's referenced sectors of the waste generating population include residential, commercial and institutional facilities.

This plan is based on maintaining compliance by providing recycling access as described as Goal #1 of the state plan. The District estimates an access rate of 159 percent. More information on measurement of progress towards waste reduction goals can be found in Section VII.

### Cost and Financing of Plan Implementation

Funding for District programs is provided through a two tier improved parcel assessment, a waste designation fee on all solid waste generated in the District, revenue from the sales of recyclables, and grants from the ODNR and other sources. The planned expenses for the District include the following areas: Plan preparation/monitoring, office overhead & gen/administration, Recycling Center/MRF operation and improvement, curbside recycling collection, rural drop-off & commercial, industrial, institutional and residential collection programs, recycling center drop-off, compost facility and the education/information programs. More information on cost and financing of plan implementation is in Section VIII.

### District Rules

On April 20, 1999, the District implemented a "flow control" program per ORC 343.014 to provide funding for Plan implementation. District rules are addressed in Section IV District Rules.

**Table ES-1 Plan Data Summary**

Plan Data		Reference year 2008	2010	2015	2020	2027
<b>Population:</b>		26,211	26,325	26,197	26,041	25,303
<b>Waste Generation</b>	Industrial	12,867	12,867	12,867	12,649	12,343
	Res/Commercial	19,900	19,801	19,671	19,562	19,210
	Exempt	2,960	2,960	2,960	2,960	2,960
	Other	00	00	00	00	00
	Total:	35,727	35,628	35,498	35,171	34,513
<b>Waste Reduction</b>	Industrial Source Reduction	N/A	N/A	N/A	N/A	N/A
	Industrial Recycling	8,365	8,365	8,365	8,365	8,365
	Res/Com Source Reduction	N/A	N/A	N/A	N/A	N/A
	Res/Com Recycling	5,328	5,352	5,472	5,603	5,742
	MSW Composting	3,201	3,201	3,201	3,201	3,201
	Waste Reduction Total:	13,693	13,717	13,837	13,968	14,107
Total Landfill		22,034	18,925	18,701	18,215	17,689



**Table ES-2****Existing Disposal Facilities**

Existing Disposal Facilities Used In the Reference Year		
Name	County	District Tons
VW Refuse Transfer Station	Van Wert, OH	6,482
National Serv-All landfill	Allen IN	5,246
WMI Lima Transfer Station	Allen OH	2,048
Defiance County landfill	Defiance, OH	3,145
Wyandot County landfill	Wyandot, OH	1,440
Celina sanitary landfill	Mercer, OH	865
Jay County landfill	Jay, IN	3
Caldwell landfill	IN	1

Source of Information: Ohio EPA "2008 Facility Data Report", IDEM-OLQ. Jay County and Caldwell landfills were not designated by the BOARD to receive waste from the District in 2008.

**Plan Data Summary** Although source reduction is addressed in the Plan and expected to occur, no reliable data or formulas are available to the District that justify inclusion of source reduction in forecasting. Waste reduction rate is calculated using this formula:  $WRR = \text{Landfill Disposal (DL)} + \text{Total Waste Reduction (TWW)} / \text{Total Waste Reduction (TWW)}$ .

### III. Inventories [ORC Section 3734.53(A)(1)-(4)]

#### A. The Reference Year

The reference year for the Van Wert Solid Waste Management District is 2008.

#### B. Existing Solid Waste Landfills

Seven landfills were identified as receiving waste from the District in 2008. These facilities, along with additional information pertaining to them, are listed in **Table III-1**.

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

Facility Name	Type	Location County State		Waste Received from District (TPY)			District Waste (TPY)	Remaining Capacity	
				Res/ Com	Indust	Exmpt		Years	Airspace Gross (tons)
Out-of-District /1									
Defiance Cnty	PA	Defiance	OH	3,137	8	1,195	4,340	>100	10,321,043
Wyandot Cnty	PA	Wyandot	OH	18	1,382	0	1,400	>100	19,874,352
Mercer Cnty	PA	Mercer	OH	0	865	1,645	2,510	9.9	802,462
Hancock	PA	Hancock	OH	5	0	0	5	42.3	5,147,963
Total In-State				3,160	2,255	2,840	8,255		
Out-of-state /2									
National Serv-All	PA	Allen	IN	3,136	1,990	116	5,246		
Jay County	PA	Jay	IN	0	3	0	3		
Caldwell landfill	PA		IN	0	1	0	1		
Total out-of-state				3,136	1,994	116	5,250		
Total Waste hauled direct to landfills				6,296	4,249	2,960	13,505		
Transfer Station Waste from Table III-3									
VW Transfer Station Waste to National Serv-All				6,482			6,482		
Lima Transfer Station Waste to Jay County				1,795	253		2,048		
Total Transfer Station Waste				8,277	253		8,530		
Total District Waste Landfilled				14,573	4,502	2,960	22,035		

PA - Publicly available. /1 Information Source: Ohio EPA "2008 Facility Data Report", /2 Indiana Department of Environmental Management, Office of Land Quality, NS-A Facility Manager Bob Walls.

A total of 22,035 tons of MSW, originating in the District, were disposed of in Ohio and Indiana landfills in 2008. The National Serv-All (Indiana) landfill is the principle recipient of solid waste generated in Van Wert County. National Serv-All has an operating lease with the County Commissioners for the transfer facility (see appendix G for more information regarding the operating lease). In addition to the operating lease National Serv-All entered into a disposal agreement with the BOARD, dated December 15, 1995. The agreement provides for twenty years of disposal of solid waste generated in the District. No limit in the quantity of solid waste is stipulated in the agreement.

The Jay County and Caldwell landfills were not designated by the BOARD to receive waste from the District during the reference year. It is not considered likely that the Caldwell landfill will seek designation in the future due to the extended transportation distance from the District.

**C. Existing Incinerators and Resource Recovery Facilities**

There are no known solid waste incinerators and waste-to-energy facilities operating in the District.

**D. Existing Transfer Facilities**

There is one licensed waste transfer facility operating in the District. The BOARD owned facility is in a twenty year operating contract with the National Serv-All company of Fort Wayne, Indiana. The contract expires in December of 2014. The waste collected at the transfer station is disposed of at the National Serv-All landfill located in Fort Wayne, IN.

Young’s Trash Service is in the process of licensing a transfer station in the District. The facility is expected to be fully licensed and operational in 2012. It currently receives waste within the limitations set on an unlicensed facility from the majority of the small volume haulers. A limited amount of recycling takes place at this facility. The recycling tonnage is processed through the Century Trading Company and District MRF.

A Waste Management of Ohio transfer station in Lima Ohio also receives District waste. Waste collected at this facility is transported to the Waste Management’s Jay County facility in Indiana. Further information is provided in Table III-3.

**Table III-2 Solid Waste Transfer Facilities Used by the District**

Facility Name	Type	Location County State	Waste Received from District (TPY)			Total Waste (TPY)	Recyclables Recovered
			Res/Com	Indust	Exemp		
VW Refuse Transfer	PA	Van Wert OH	6,482	0	0	6,482	0
Lima Transfer WMI	PA	Lima OH	1,795	253	0	2,048	0
1/ Young’s Waste Service 2012	PA	Van Wert OH	N/A	N/A	N/A	N/A	N/A
TOTAL			8,277	253	0	8,530	0

PA - Publicly Available Source of information: Ohio EPA 2008 Facility Data Report.

1/ Young’s Waste Service is not a licensed transfer station as of this writing but is expected to achieve that status in 2012. Waste from the facility was transferred to Defiance and Mercer County landfills in the reference year.

**E. Existing Recycling and Household Hazardous Waste Activities**

Seven facilities/activities are identified as providers of recycling opportunities in the District. Facilities listed in **Table III-3**.

**Table III-3 Residential Weekly Curbside Recycling Activities Used by the District**

Facility name	Type	Homes offered served	Homes using service / %	Service Area in SWMD	Material Accepted	SWMD TPY
SWMD Curbside	NS	5,733	2,981 52 %	Convoy, Middle Point, Van Wert, Ohio City, Willshire, Wren, Elgin, Venedocia	ONP, OCC, PBD, OFP, GL MXP, ALC MAG, PHBK, Foil OTPA, Books, STCS, 1-7 Plast	961

Information sources: District scale records for weight and staff estimates for participation.

The District provides weekly curbside recycling for eight cities/villages and regularly scheduled, call as needed and special event, collection service to community groups, religious, government, commercial/industrial and other nonprofit organizations. The District provides recycling collection services to all the school systems located within the District. Eleven of the twelve Townships located within the District participate in the SWMD rural drop-off recycling activities.

A drive-through recycling drop-off located at the District Recycling Center provides recycling opportunities for residential/commercial and industrial segments of the District. The expanded services at the drive through include wet cell batteries, appliances, bulk plastic, ferrous and nonferrous metal, plastic film, industrial ABS & PS plastic, e-waste, motor oil and tire recycling.

The District MRF provides processing for all recycling materials collected by the District. The MRF and the District Class 4 Compost Facility are part of the SWMD Recycling Center.

There are three salvage yards and/or buyback facilities located within the District: Century Trading Company, Van Wert Auto Salvage and Ohio City Auto Salvage. Five other scrap yards: Kohart Surplus and Salvage of Paulding, OH and Omni Source, with locations in Fort Wayne, IN and St Mary's, Lima and Defiance, OH are also within a reasonable driving distance of the District.

City Waste Paper provides commercial and industrial OCC bale collection and a publicly available OCC drop-off location. City waste paper is the principle commercial OCC hauler/broker in the District. Some of the local commercial industrial units recycle waste they produce through their parent company and are not considered publicly available.

The District collects used motor oil and hydraulic fluid, tires, e-waste including televisions, florescent tube lights, and wet cell batteries at the recycling center. Otherwise, there has been no formal HHW collection event held in the District.

All SWMD activity weights listed in **Table III-4** are from SWMD records. The City Waste Paper, Century Trading Company, Ohio City Auto Salvage, Van Wert Auto Salvage, and Van Wert Refuse Transfer Station estimates were obtained through a personal phone call with facility owner or manager. Century Trading Co, City Waste Paper, Drainage Products (Haviland Tile) and Omni Source Lima serve as brokers for the materials processed through the MRF.

**Table III-4 Drop-offs, Buy backs, Hauler Collection, Other Recycling and HHW Activities**

Name Address	Type	Materials Accepted	Service Area	Public access hours	SWMD Material processed TPY	Capacity TPD TPY
SWMD Nonprofit Collection	PA, HC	ONP, OCC, PBD, OFF, MXP, MAG, PHBK, OTPA, Books GL, ALC, AF, STCS PETM, HDPM, LDPE	All SWMD	N/A	39	8 TPD 2,000 TPY
SWMD Township House Drop-off	PA, DO	Same as above	10 Twnshps all SWMD	Monthly 10 - 1:00	75	6 TPD 720 TPY
SWMD Recycling Center Drive-Through	PA, DO	Above + ALS, ABS, PS, UO, PVC, LAB, STCS, OTFE, CEL, STR, APP,	All SWMD	M, W, F 9-5 1 <sup>st</sup> /2 <sup>nd</sup> S 8-12	343	14 TPD 2,380 TPY
Century Trading 1224 W Main, Van Wert OH	PA BR SY DO BB	ALC, ALS, STCS, OTNF, OTFE, LAB	VW County	8 - 5 M-F 8 - 12 Sat	2,481	20 TPD 5,000 TPY
VW Auto Salvage 7167 Lincoln Convoy OH	PA, SY	OTFE	VW County Area	8 - 5 M-F	730	N/A TPD N/A TPY
Ohio City Auto Salvage 11408 Snyder, Ohio City OH	PA, SY	OTFE	VW County area	8 - 5 M-F	4,300	N/A TPD N/A TPY
City Waste Paper P.O. Box 26, Van Wert OH	PA, DO, BR, HC	OCC	VW County	No fixed hours for DO	583	N/A TPD N/A TPY

**Table III-5 Acronym Key:** BR-broker, BB-Buy back, DO-drop-off, HC-hauler collector, PA-publicly available, SY-scrap yard, AF-Aluminum foil, ALC-Aluminum cans, ALS-Aluminum scrap, APP-Used appliances, CEL-Computers/electronics, GL-Glass, HDPE-High density polyethylene mixed, LAB-Lead-acid batteries, LDPE-Low density polyethylene, OFF-Office paper, MAG-Magazines, MXP-Mixed paper, OCC-Old corrugated containers, ONP-Newspaper, OTFE-Other ferrous, OTNF-Other nonferrous, OTPA-Other paper, PETM-Polyethylene mix, PHBK-Phone books, PBD-paper board, PVC-vinyl siding, PS-Poly Styrene, STCS-Steel cans and Scrap, STR-tires, UO-Used oil

## F. Existing Composting/Yard Waste Management Facilities

The District Class IV compost facility is located at the District Recycling Center, 1135 North Washington Street, Van Wert. During the reference year (2008) the facility processed 3,201 tons of material. The facility accepts woody and herbaceous vegetation. The materials are collected in three streams: Firewood, Brush, and nonwoody vegetation.

**Table III-5 Composting/Yard waste Management Facilities used by the District**

Facility Name	Type	Location County Address	Waste from the SWMD		TPY Received	Process Capacity- tons		Compost Produced
			Type	Amount		Daily	Annual	
SWMD	PA C- IV	Recycling Center 1135 N Washington	Woody and herbaceous	3,201	3,201	16	5000 est.	1,200 Est.
Traveling & Recycle Wood Products	Pallet Manuf acterer	Van Wert, Middle Point OH	Pallet rebuilding Old pallets	N/A	N/A	N/A	N/A	N/A

PA - Publically Available

**Table III-6 Facilities Used by the District Located Outside Ohio: Additional Data**

Name	Address & Phone #	Owner	Manager	TPD limit	TPY limit
National Serv-All Landfill	6231 MacBeth Rd Fort Wayne, IN 46809 (260) 747-4117	Republic Services	Bob Walls	N/A	N/A

Jay County and Caldwell landfills, both located in Indiana, are not included in Table III-7 because of the trivial amount of waste received from the District.

**G. Existing Open Dumps and Waste Tire Dumps**

There are no known open dumps or waste tire dumps in the District. **Table III-8** has been omitted from this plan. The District provides ongoing one day per month tire drop-off collection at the recycling center.

**H. Ash, Foundry Sand, and Slag Disposal Sites**

No ash, foundry sand, or slag disposal sites were identified in the District. **Table III-9** has been omitted.

**I. Map of Facilities and Sites**

A map of the District is located in Appendix D.

**Table III-7 Solid Waste Haulers Operating in the District**

Company Name	Mailing Address Telephone	Description of Collection Routes	Materials Collected	TPY collected from District	Name of Facilities Used by Haulers
Reidenback and Son	Box 700, Convoy OH 45832 (419) 749-2313	Van Wert and surrounding areas	Residential Commercial	<1000	VW Refuse TS Young's TS
Jeff's Trash Service	9888 Dull Robinson Rd Van Wert, OH (419) 238-0416	Van Wert and surrounding areas	Residential Commercial	<1000	VW Refuse TS Young's TS
Murphy's Trash Service	920 East Main Van Wert, OH (419) 238-3991	Van Wert City and outer limits	Residential Commercial	<1000	VW Refuse TS Young's TS
Young's Trash Service	618 S Harrison Van Wert, OH (419) 238-2962	Van Wert City and outer limits	Residential Commercial Industrial	3,000	Defiance landfill Mercer Cnty LF Young's TS
Jeff Keller	401 North Tyler Van Wert, OH (419) 238-2330	Van Wert City Ohio City	Residential Commercial	<1000	VW Refuse TS Young's TS
National Serv-All (Republic)	6231 Macbeth Rd Fort Wayne, IN 46809	Van Wert City and County	Residential Commercial Industrial	11,728	Van Wert Refuse TS and NSA Landfill
Waste Management	1550 E 4 <sup>th</sup> St Lima OH 4584	Van Wert City	Commercial Industrial	2,048	Lima Transfer

## **J. Existing Collection Systems - Haulers**

The District is served by a diverse assembly of waste haulers. There are five locally based waste collectors in addition to Republics Service (National Serv-All) and Waste Management of Ohio that collect and transport waste in the District. The residents choose the type of disposal method (bag, can or pile) and the service provider. There are no city/village waste disposal contracts. This diversity is a challenge to pay-as-you-throw systems and collecting hauler data as many of the smaller haulers do not maintain accurate disposal records and are cash customers of the local transfer station. National Serv-All is the largest waste hauler by tonnage operating in the District. The hauler information is provided by the Van Wert County Health Department, Van Wert refuse transfer station, the IDEM and personal contacts with waste haulers. **Table III-7** provides information on haulers operating in the District.

## IV. Reference Year Population and Waste Generation Projections

[ORC Section 3734.53(A)(5)-(6)]

### A. Reference Year Population and Residential/Commercial Waste Generation

The population of the county has been adjusted to calculate an accurate number of residents in the District. A portion of the populations of the city of Delphos (3,043) and Scott Village (204) have been removed from the District's population. Both are split by county boundaries with the largest population located outside of the District. The planning period for the District is January 1, 2011 through January 1, 2027.

The 15 year period for population projections coincides with the planning period for the District. The population projections for the District are shown in **Table V-1**. The population projections were computed by the Ohio Department of Development, Office of Strategic Research, for the years 2010, 2015, 2020 and 2027. The remaining years were calculated by interpolating a straight-line projection. The District's population is expected to decrease from 26,081 residents in 2010 to 25,303 residents in 2027.

According to the disposal rate prepared by Ohio EPA "Annual District Review Form for 2008" 14,523 tons of District residential/commercial waste was disposed of in landfills in 2008. The District maintained a residential/commercial disposal rate of 3.04 pounds-per-person-per-day for the reference year

**Table IV-1. Reference Year (2008) Population and Residential/Commercial Generation**

	District Population			Generation Rate (lbs./person/day)	Total Res/Com Generation (TPY)
	Before adjustment	Adjustment	After adjustment		
A Total generation	29,439	(3,247)	26,221	4.16	19,900
B Disposed landfill	29,439	(3,247)	26,221	3.04	14,573

Row "A" represents total District res/com waste disposed of in landfills and recycled - used in Plan forecasting.

Row "B" represents total District res/com waste disposed of in a landfill - included as a reference.

### B. Reference Year Population and Industrial Waste Generation

According to the disposal rate prepared by Ohio EPA "Annual District Review Form for 2008" 4,502 tons of District industrial waste was disposed of in landfills in 2008. According to the report the District maintained an industrial disposal rate of .94 pounds-per-person-per-day.

**Table IV-2. Reference Year (2008) Population and Industrial Generation**

	District Population			Generation Rate (lbs./person/day)	Total Industrial Generation (TPY)
	Before adjustment	Adjustment	After adjustment		
A Total generation	29,439	(3,247)	26,221	2.69	12,867
B Disposed landfill	29,439	(3,247)	26,221	.94	4,502

Row "A" represents total District industrial waste disposed of in landfills and recycled - used in Plan forecasting.

Row "B" represents total District industrial waste disposed of in a landfill - included as a reference.

Industrial survey data was collected (**see Table IV-3**) via mail and telephone surveys conducted by the District during the winter/spring of 2009 for the 2009 Annual District Report (ADR). Eighteen of the industries, representing over eighty-six percent of industrial waste generation, surveyed provided waste and recycling data. Additional data was provided from 2006, 2007 and 2008 survey respondents for a small number of industries that had no response to the 2009 inquiry. The District assumed that survey

data from previous or following years would provide more accurate data of waste generation and reduction than applying a SIC based formula. Additional recycling data is from District recycling collection records.

Industrial listings and standard industrial classification codes for **Table IV-3** were taken from the 2007 Harris Ohio Industrial Directory. Of the 57 Van Wert SWMD industries listed in the directory, 51 are considered industrial in nature. Historically the District has received data from a total of 50 industries to establish baseline data. The non-respondent's waste generation was projected using the *Ohio Industrial Waste Generation Rates by SIC Category (data as of 2/23/93): District Solid Waste Management Plan Format, Appendix JJ (Table JJ-2) (1994)*. The District will utilize the EPA "Annual District Report Review Form" total industrial disposal and recycling estimates to provide continuity throughout the plan. The data from the "Annual District Report Review Form" correlates with District Industrial waste and recycling data.

**Table IV-3 2008 Industrial Waste Generation Survey Respondents vs. Unreported**

SIC	Survey Respondents			Survey Non-Respondents			Total Waste Generated (TPY)
	Number Industries	Number Employees	Tons Waste Generated	Number Industries	Number Employees	Tons Waste Generated	
20	3	188	380	1	6	27.24	407
23	2	180	64	0			64
24	3	70	143	0			143
26	3	275	1,772	0			1,772
27	4	40	338	0			338
28	5	32	84	0			84
30	5	1,727	7,798	0			7,798
32	1	2	9	0			9
33	1	13	108	0			108
34	8	417	1,419	0			1,419
35	9	91	42	0			42
36	1	750	566	0			566
37	4	133	111	0			111
39	2	21	6	0			6
TOTALS	51	3,939	12,840	1	6	27.24	12,867

Sample Calculation for estimating industrial waste generation (ferrous can example):

$$4\text{cy (size of bin)} \times 150\# \text{ (weight of 1cy Ferrous cans from Table II-1)} = 600\# \text{ full bin weight (FBW)}$$

$$600\# \text{ FBW} \times 52 \text{ (pulls per year)} \times 75\% \text{ (average \% of bin capacity per pull)} = 23,400\#$$

Facilities providing information in total yards were converted to tonnage using the rates provided by the Ohio Administrative Code 3745-27-03: *District Solid Waste Management Format, Appendix II (Table II-1) (1994)*. A sample calculation using *Appendix II (Table II-1) (1994)* data for converting cubic yards of whole ferrous cans into pounds is listed below

### C. Exempt Waste

According to Ohio/Indiana landfill records, 2,956 tons of District waste was disposed of as exempt waste in the reference year. **Table IV-4** provides information on exempt waste.



**Table IV-4 Exempt waste Generated in the District and Disposed in Landfills**

Type of Waste Stream	Generation Rate (lbs./person/day)	Total Exempt Waste Generation (TPY)
Construction and Demolition	.62	2,960

$$\text{Sample calculation } \frac{2,960 \text{ tons} \times 2000 / 26,221 \text{ population}}{365} = .62$$

**D. Total Waste Generation**

The generation rate and total waste generated (disposed) from **Table IV-1**, **Table IV-2** and **Table IV-4** are used to determine the total waste generated within the District, as shown in **Table IV-5**. Please note the column in **Table IV-5** Disposed of in Landfills is included here as a point of reference. The total generation rate (lbs./person/day) using total generated waste including recovered is 7.47.

**Table IV-5 Total Waste Generation**

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year	Disposal Rate (lbs/person/day)	Tons/Year
		Total Generated/Recovered		Disposed in Landfills
Res/Comm	4.16	19,901/5,328	3.04	14,573
Industrial	2.69	12,867/8,365	0.94	4,502
Exempt	0.62	2,960/0	0.62	2,960
<b>Total Waste</b>	<b>7.47</b>	<b>35,728/13,693</b>	<b>4.60</b>	<b>22,035</b>

Exempt waste includes waste data from IDEM.

**E. Reference Year Waste Reduction Programs Facilities and Activities****1. District operated collection and processing****Financial Incentives for Recycling**

The District does not provide financial incentives outside of school recycling program donations. If at some point during the planning period the District determines that financial incentives are an effective option the District will implement financial incentives.

**Materials Collected**

The District will continue to investigate opportunities to expand the list of materials collected during the planning period. The following materials were collected and processed by the District in the reference year (2008) through curbside, township house drop-off, nonprofit and Recycling Center drop-off collection:

Plastics (#1 through #7 food and beverage containers, ABS, PS, shrink wrap, shopping bags, vinyl siding, bulk); steel and aluminum cans; aluminum foil, brown, blue, clear and green glass bottles; hardcover and paperback books; cardboard; pasteboard, magazines and glossy paper; mixed paper including junk mail, newsprint and office paper. In addition to the aforementioned materials the District will link producers with recycling brokers or processors whenever possible to do so. The following additional materials were collected and processed by the District in the reference year through the Recycling Center drop-off collection: E-waste including televisions and computer monitors (CRT's), florescent light tubes; large and small used appliances (white goods) and metal scrap; used motor and hydraulic oil and; used tires and rims. The drive-through houses an area for dropping off gently used items that can be collected free by someone who will make use of them.

**Strength and Weaknesses****Collection Programs**

Strengths: The overall strength of the District's collection programs comes from their convenience and minimal expense to the consumer and the commercial, industrial or industrial entities participating. The District, in continually seeking to expand the list of materials recovered and collection infrastructure and support services, creates recycling opportunities.

Weaknesses: There are a number of challenges to collection programs involving transportation. They include the service cost (equipment capital investment and maintenance, fuel, labor and administration), efficiencies (density of collection points, amount and type of material collected), and scheduling conflicts.

### **Curbside Recycling Collection**

A weekly curbside collection service for single and multifamily dwellings within the City of Van Wert and for seven surrounding villages located within the District. The service is also available through prescription to households located outside of city/village limits but within reasonable distance to existing curbside routes. The weekly curbside recycling service has an estimated 52 percent participation rate of 5,733 possible households within city/village boundaries. An additional 36 households located outside of city/boundaries participate in the program. In the reference year 961.45 tons of materials were collected through weekly curbside recycling. The following communities participate in the curbside recycling program: Convoy, Elgin, Middle Point, Ohio City, Van Wert, Venedocia, Wilshire, Wren. The District is anticipating a slow but continual growth in curbside recycling participation throughout the planning period based on current trends.

### **Nonprofit Collection**

A scheduled or call-as-needed recycling collection service for schools, churches, government entities and other nonprofit organizations located within the District. When possible the nonprofit collection is incorporated in the drop-off or curbside collection services. The District stations compartmentalized trailers or roll-off bins at the larger schools for regular collection. The District does not have accurate weight information on some of the collection program because the individual material from one collection point is blended with the materials of others. Participating organizations include all schools located within the District, federal, state, and local government offices, religious and other institutions.

Another facet of the nonprofit collection program is the participation in annual and/or biannual community cleanup days. The District provides truck(s) and trailer(s) for recycling tires, appliances, and other recyclable materials. Three villages (Convoy, Ohio City and Wilshire) have participated in the program. The District also provided equipment and assistance for recycling materials resulting from proms and other large single event activities.

### **Township House Drop-Off**

The Township House Drop-off is a rural one-day-per-month recycling drop-off program that provides recycling access to township residents and other segments of the District community. The staff person and truck and trailer are parked at one of the ten participating township buildings from 10:00 a.m. through 1:00 p.m. In the reference year, 74.76 tons of materials were collected through this activity. Washington township residents can utilize a neighboring township drop-off, the Pleasant township drive-through drop-off. With the exception of Washington Township, all Van Wert County townships participate in the drop-program including:

Harrison (3 <sup>rd</sup> Wednesday)	Hoaglin (2 <sup>nd</sup> Friday)	Jackson (3 <sup>rd</sup> Friday)
Jennings (4 <sup>th</sup> Monday)	Liberty (2 <sup>nd</sup> Wednesday)	Pleasant (see drive-through)
Ridge (3 <sup>rd</sup> Monday)	Tully (1 <sup>st</sup> Monday)	Union (2 <sup>nd</sup> Monday)
Wilshire (1 <sup>st</sup> Friday)	York (1 <sup>st</sup> Wednesday)	

The District will continue to offer this service throughout the planning period in some fashion. The convenience and expanded hours of the Recycling Center drive-through have attracted many of the township house drop-off customers away from the service. The District will evaluate consolidating some of the locations where minimal participation is taking place. The District does not anticipate any significant increase in the use of the rural drop-offs through the planning period.

### **District Recycling Center & Drive-Through Drop-off**

The District Recycling Center includes the Drive-through drop-off, Office, MRF and compost facility. Located in the northern edge of the City of Van Wert on Washington Street, the Recycling Center is centrally located in the District at the intersection of the major highways U.S. 30 and U.S. 127. In addition, the recycling center serves as a drop-off

location for appliances, lead acid batteries, books, e-waste, used oil, smaller amounts of ferrous and nonferrous metals and tires.

The drive-through drop-off service provides recycling opportunities for residential, commercial and industrial segments of the District. The drive-through is open Monday, Wednesday and Friday from 9:00 a.m. through 5:00 p.m. and the first and third Saturdays from 8:00 a.m. through noon. The drive-through drop-off is overseen by District staff with the assistance of Experience Works volunteers. In the reference year, 391 tons of materials, including tires, motor oil, e-waste and batteries were collected through this activity.

The District will continue to offer this service throughout the planning period. The District anticipates the increased focus on educational activities will continue to increase program participation.

### **Material Recovery Facility (MRF)**

All the recycled material collected by the District within or outside of the District is processed at the MRF. Approximately eight tons-per-day are processed at the facility. The operation is overseen by District staff with supplemental labor provided by Department of Job and Family Services, Van Wert County Correctional facility work crews, Experience Works, and community service workers. The District uses ODNR "Recycle Ohio" grant dollars for MRF capital investments. The MRF currently utilizes a two-stream sort line and a horizontal and four vertical balers to process materials. An additional horizontal baler, located in the Recycling Center, is used to process ABS plastic from electronics.

The District will continue to offer this service throughout the planning period. The District anticipates the increased focus on educational activities will increase demand on MRF processing capacity. Building modifications and/or equipment replacement or upgrades may occur that are not specifically detailed herein due to changes in technology, new material recycling opportunities, increased demand on processing capacity or efficiency, or other unforeseen opportunities. The strengths and weaknesses of both dual and single stream processing will be evaluated.

### **Composting Facility**

A Class IV composting facility incorporated into the Recycling Center accepts woody and herbaceous vegetation for processing into firewood, wood mulch and compost. This popular District service is available five days per week to residents, commercial/industrial segments and cities, villages and other units of government. The District provides keys for 24 hour access to requesting government units. The finished products are given back to District residents. A fee is charged for loading of materials. The facility processed 3201 tons of materials in the reference year.

Free loading service is provided for not-for-profit activities. The District contracts with commercial grinding and trammel screening service providers to process the woody/herbaceous vegetation.

The District will continue to offer this service throughout the planning period and does not anticipate any significant growth, barring a natural disaster, in program participation during the planning period.

### **Other Collection Commercial/Industrial**

The District offers a diverse commercial/industrial recycling collection program focusing on commercial/industrial units that may fail to attract private sector collection providers. The small commercial, institutional and industrial collection has expanded from single digit numbers to include over 120 participants within the District. Facility waste audits are performed at no cost to the facility. The District also encourages key facility staff MRF tours to provide visual recognition of the recycling program potential. The District partners and consults with public and private sectors to provide educational outreach and recycling services. The District will continue to expand this service through the planning period.

## **Intergovernmental Contract Collection**

The District provides recycling drop-off collection and processing services to communities in Allen (6) and Putnam (2) counties through intergovernmental contracts. The District will continue to offer these services throughout the planning period as long it proves to be mutually beneficial to do so.

## **HHW Collection**

The District collects e-waste, florescent tube lights, freon based appliances, wet cell batteries, used motor and hydraulic oil, and tires at the recycling center. Information is provided on the safe disposal of latex paint and other HHW materials. There has been no formal HHW collection event held in the District. The District may host a limited HHW event and/or taking advantage of other HHW special collection opportunities.

## **2. Collection and processing facilities and activities not operated by the District**

There are three salvage yards located within the District. Van Wert Auto Salvage is primarily an auto recycling facility. While Ohio City Auto Salvage does recover some automobiles, it is more focused on the buy back and processing of commercial and residential metals. Century Trading is a nonautomotive broker facility. All of these facilities collect ferrous and non-ferrous metals.

Five other scrap yard: Kohart Surplus and Salvage of Paulding, OH and Omni Source, with locations in Fort Wayne, IN and St Mary's, Lima and Defiance, OH are also within reasonable driving distance of the District.

City Waste Paper provides commercial and industrial OCC bale collection and a publicly available OCC drop-off location. City waste paper is the principle commercial OCC hauler/broker in the District. There are a number of commercial and industrial brokers that operate within the District depending on market pricing and competition that are not known to be consistent service providers in the District and are discussed here only as a point of reference. The District did not include them in **Table III-3**.

Some of the local commercial/industrial units recycle waste they produce through their parent company and are not publicly available. Examples of these companies include: Big Lots, Pick-N-Save, Brown Publishing and Greif Brothers.

## **3. Existing Education/Information Outreach Activities**

Educational activities are focused on the school age and adult populations of Van Wert and adjacent counties. The District does not have a designated education/information (E/I) staff person and is not planning to create a position to fulfill that shortfall. Therefore, education/information activities are performed by the District Director or other capable District staff. Although the District does not have a designated E/I staff it does have equipment and facilities that offer E/I opportunities to all facets of the communities served by the District. The District intends to continue existing educational activities throughout the planning period although the continuance of some of the activities is dependent on funding and multi entity collaborations.

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

## **Recycling Center Tours**

Guided tours through the MRF and/or Compost Facility are given to civic, church, classroom and other groups. During the reference year the District staff provided Recycling Center tours to numerous groups

### **Recycling Process Training and Consulting**

The District provides consulting and training services to commercial, industrial and institutional units. The District also offers inside and outside recycling containers when available.

### **Earth Day Open House Celebration**

An annual event that offers public tours, information, giveaways, free hot dogs and refreshment, free trees, free mulch loading services and other promotional services and materials to attract residents to the recycling center. The open house, coordinated with community clean-up events, is used to showcase new programs, services and/or investments. Annual participation is from 300 to 500 area residents.

### **Community Parades**

The District generally participates in three or more parades each year (only two in the reference year) using District recycling vehicles. The parades include: Peony Festival and Holiday at Home in Van Wert, Lambert Days in Ohio City, Pioneer Parade in Wilshire, Homecoming Parade in Wren, and the Community Days parade in Convoy.

### **School/Civic Event Participation and Presentations**

District staff provides educational presentations for school assemblies, individual classrooms, scouts, and to senior, church, service clubs adult organizations.

### **Not Just Cows And Plows Day**

The District participates in the annual "Not Just Cows and Plows Day" involving all Van Wert city and county sixth grade students as well as area parochial and home school students. This activity employs multiple stations focusing on agriculture and natural resource conservation. The District supplies opening and closing ceremonies and printed materials.

### **News Media (Goal #3), (Goal #4)**

The District produces numerous written news releases covering scheduled activities, program promotion and special events. In addition, the District is featured in news media interviews and feature stories. The monthly recycling schedules are presented through four newsprint papers, two internet papers, and one radio station. Annually the District produces 26-30 scheduling and topical news releases, participates in 2-5 feature stories for print or broadcasting mediums. The District also takes advantage of local advertising promotions to run full or half page ads in local newspapers.

### **Radio Advertising**

During the reference year the District contracted with a local radio station to run 42 ad spots per month. These ads, some of which were created by the District, promoted the activities of the Plan. The District will continue the radio ads to a greater or lesser degree as funding is available.

### **Distribution of Printed Material**

The District inventories printed E/I material produced by the OEPA, ODNR, District and others. The printed material is distributed by the District at various locations within the District including department stores, government offices, and schools. Printed material is also distributed as part of the Not Just Cows and Plows Day, Earth Day Open House, facility tours and other E/I activities.

### **Internet Advertising & Web Page**

The District has a continual ad banner in one of the local electronic newspapers that is evaluated monthly. The District has developed a web page at [recyclevw.org](http://recyclevw.org).

## F. Reference Year Waste Reduction

### 1. Residential/Commercial Sector

The District does not have reliable methodology to estimate residential/commercial source reduction. Therefore, although the District assumes source reduction occurs, there is no accounting of source reduction in **Table IV-6** and **Table IV-7**. Auto scrap yard tonnage is not included in **Table IV-6**.

All SWMD activity weights listed in **Table IV-6** are from SWMD records. The City Waste Paper and Century Trading Company estimates were obtained through a personal phone call with the facility owner or manager.

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

Type of Waste	TPY Source Reduced	TPY of Waste Recycled	Incineration, Composting and Resource Recovery		
			Total waste received	Residual Landfilled	Net Waste Processed
District collection: AF, ALC, GL, HDPE LDPE, PETM, STCS, MAG, OCC, OFF, ONP, OTPA, PHBK, PBD	N/A	1,377	N/A	N/A	N/A
Recycling Center Drop-off Used Oil	N/A	15			
Recycling Center Appliances /*	N/A	41			
Recycling Center Tires	N/A	20			
Other OCC, appliance, tire, ferrous, office paper, plastic film collection including grocery/department stores, brokers/haulers	N/A	674			
Compost Facility Yard Waste /*	N/A	3,201	3,201		3,201
<b>Total</b>	N/A	5,328			

/\* Adjusted from the 2008 ADR. A more detailed breakdown of the District Residential/Commercial waste stream can be found in **Table IV-10**.

Double counting was eliminated in instances where the District used brokerage companies that provide services to other nonprofit, commercial and industrial units within the District. Other OCC collections include commercial businesses that recycle through a parent company. The District contacted each included business to attain recycling tonnage and hauler information to eliminate double counting.

### 2. Industrial Sector

The District does not have reliable methodology to estimate industrial source reduction. Therefore, although the District assumes source reduction occurs, there is no accounting of source reduction in **Table IV-7**. Auto scrap yard tonnage is not included in **Table IV-7**.

Industrial recycling was identified through industrial surveys and surveys of recycling collection programs and activities. This information is presented in **Table IV-2** and **Table IV-3**. If recycling facilities were identified in the industrial surveys, double-counting of materials was eliminated. The District estimated that a minimum of four tons of yard waste is collected by lawn service providers and delivered to the District compost facility. The survey composition estimates are intended for establishing reference data for planning purposes and will be updated by the District with data obtained through industrial surveys throughout the planning period.

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

Type of Waste	TPY of Waste Source Reduced	TPY of Waste Recycled	Incineration, Composting and Resource Recovery		
			Total waste received	Residual Landfilled	Net Waste Processed
Ferrous metal	N/A	4,315	N/A		
Nonferrous metal	N/A	418			
OCC	N/A	3,506			
Newspaper	N/A	46			
Pallets/ spools	N/A	8			
Plastics	N/A	68			
Yard Waste	N/A	4	4	N/A	4
Total	N/A	8,365			

In cases where industrial recycling was taking place without actual records of volume of material the District would follow the following formula: Volume of the container multiplied by the percentage filled at collection multiplied by the number of times container(s) are emptied multiplied by the estimated weight (EPA) of the material recycled. In some cases involving small industries the District relied on the owner's best estimate.

**G. Total Waste Generation: Historic Trends of Disposal Plus Waste Reduction**

The District does not have reliable methodology to estimate residential/commercial and industrial source reduction. Therefore, although the District assumes source reduction occurs, there is no accounting of source reduction in **Table IV-7**. Auto scrap yard tonnage is not included in **Table IV-7**. Total waste generation estimates including reduction and landfill disposal are detailed in **Table IV-8**.

**Table IV-8 Total Waste Generation Based Upon Disposal Plus Waste Reduction**

Year	Management Method Used in Tons-per-Year						Total Waste
	Source Reduction/Recycling	Yard Waste Composting	YW Land Application	Incineration	MSW Composting	Landfill Disposal	
2008	10,492	3,201	N/A	N/A	N/A	22,035	35,728
2007	9,554	3,353	N/A	N/A	N/A	22,833	35,740
2006	16,784	3,335	N/A	N/A	N/A	24,120	44,239
2005	15,067	3,009	N/A	N/A	N/A	25,270	43,346

Source Reduction/Recycling does not include quantities of yard waste composted.

**H. Reconciliation of Waste Generation**

There have been no District case studies or industrial surveys which indicate the amount of waste reduced as a result of source reduction efforts in the residential, commercial or industrial sectors during the reference year. The District ADR data is limited by the scope of private sector reporting. Consequently, District reported generation and disposal may not duplicate all the data provided by the Ohio EPA.

**Table IV-9 Adjusted Reference Year Total Waste Generation for the District**

Type of Waste	Generation Rate (lbs/person/day)	Tons-Per-Year
Residential/Commercial	4.16	19,901
Industrial	2.69	12,867
Exempt	0.62	2,960
Total Waste Generation	7.47	35,728

In lieu of actual residential/commercial waste audit information the District, in **Table IV-10**, is using values presented in “Characterization of Municipal Solid Waste in the United States: 1994 Update” as prepared by Franklin and Associates to estimate residential/commercial waste composition.

### I. Waste Composition

The District received 24 completed commercial and 19 completed industrial responses to the recycling program assessment surveys as a function of the 2000 Strategic Planning Initiative (SPI). In addition, five respondents contacted the District for specific waste reduction needs. The survey, executed independent of the ADR survey, focused on determining the recycling needs within the District for the aforementioned sectors. Although the survey data did not establish quantities it did establish focus areas for planning purposes. The focus areas are units not served by private sector because the low volume of material, low material values, materials difficult to recycle or other unstated reasoning.

**Table IV-10 Estimated District Res/Com Waste Stream Composition for the Reference Year**

<b>Waste Stream</b>	<b>Tons</b>
Major Appliances (1.5)/1	393.17
Furniture and Furnishing (3.7) Carpets and Rugs (1.1)	1,258.13
Rubber Tires (1.1) Batteries, Lead-Acid (1)	550.43
Miscellaneous Durables (6.2)	1,625.08
Newspapers (6.8) Office Papers (3.6) Third Class Mail (2)	3,250.16
Books (0.5) Magazines (1.6) Telephone Books (0.3) Other Commercial Printing (2.8)	1,362.97
Tissue Paper/Towels (1.7) Paper Plates/Cups (0.3)	524.22
Plastic Plates/Cups (0.3) Trash Bags (0.5) Disposable Diapers (1.4)	576.64
Other Nonpacking Paper (1.9)	498.01
Clothing/Footwear (1.9) Towels/Sheets/Pillow Cases (0.5) Other Misc. Nondurables (2.1)	1,179.50
Glass Beer/Soft Drink Bottles (2.7) Wine/Liquor Bottles (1.1) Food/Other Bottles/Jars (2)	1,520.24
Steel Beer/Soft Drink Cans (0.1) Food/Other Cans (1.1) Other Steel Packaging (0.1)	340.74
Aluminum Beer/Soft Drink Cans (0.8) Foil/Closures (0.2)	262.11
Paper Corrugated Boxes (12.2)	3,197.74
Paper Milk Cartons (0.2) Folding Cartons (2.2) Other Paperboard Packaging (0.1)	655.28
Paper Bags/Sacks (1.2) Wrapping Paper (0.1) Other Paper Packaging (0.5)	471.80
Plastic Soft drink Bottles (0.3) Plastic Milk Bottles (0.2) Other Plastic Containers (1.3)	471.80
Plastic Bags/Sacks (0.6) Plastic Wraps (0.8) Other Plastic Packaging (1.0)	629.06
Wood Packaging (4.3) Other Miscellaneous Packaging (0.1)	1,153.28
Food Waste (6.4)	1,177.50
Yard Trimmings (16.2)	4,246.18
Miscellaneous Inorganic Waste (1.4)	366.95

/1 (. )Value in parentheses represents percentage of total waste generation.



## 1. Residential/Commercial Sectors

The District has not performed a residential/commercial waste audit due to limitations in staff and funding. **Table IV-10** provides estimated quantities of the District Residential/Commercial waste composition. This data is based on multi jurisdiction averages and is not considered to be more than a rough estimate.

**Table IV-11 Estimated Industrial Waste Composition for the District**

Waste Type	Standard Industrial Classification (SIC)												Total
	20	24	25	26	27	28	30	32	33	34	35	37	
Aluminum	7	00	1	99	2	1	2	00	86	10	00	39	245
Ash	144	1	00	00	00	24	17	4	00	1	1	23	215
Cardboard	264	2	130	1,170	17	6	293	15	1	16	1	223	2,140
Concrete	32	00	00	00	00	1	3	16	00	10	00	70	132
Textiles	1	00	20	00	00	00	9	24	00	1	00	5	60
Food wastes	832	00	11	24	4	1	17	00	00	5	00	93	988
Glass	37	00	00	1	1	1	5	00	00	4	00	14	64
Ferrous	127	00	42	26	1	3	67	5	43	197	4	228	743
Non-ferrous	28	2	2	12	1	00	3	00	00	12	00	38	97
Mixed Waste	68	00	00	229	32	13	113	55	2	35	1	51	601
Non-Haz. Chem	4	00	00	2	00	1	14	1	00	00	00	1	23
Non-Specified	72	00	28	305	58	11	622	15	9	3	1	47	1,172
Oil	4	00	00	1	00	00	1	00	00	00	00	23	29
Paper, Office	20	1	139	696	85	1	71	8	00	12	1	23	1,027
Paper, Misc.	56	00	29	160	136	2	24	3	00	4	1	122	542
Newsprint	00	00	00	00	2	00	2	00	00	00	00	00	4
Plastics	39	00	50	144	5	3	328	6	00	1	00	32	613
Rubber	29	00	00	1	2	1	151	00	00	1	00	93	278
Sawdust	00	174	00	00	00	00	00	00	00	00	00	00	174
Sludge	242	00	7	00	00	14	8	00	16	7	1	36	330
Stone/Clay/Sand	36	00	2	00	00	3	17	598	21	5	00	116	799
Scrap Wood	39	72	116	114	7	2	82	5	1	16	1	117	572
Yard waste	2	00	7	00	1	00	00	1	00	00	00	9	20
TOTALS	2,101	253	582	2,983	355	88	1,847	756	185	340	14	1,400	10,909

**Table IV-11 footnotes:** Table IV-3/JJ-3/IV-8 Conversion Factor: .91(SIC 30 Table IV-3) / 6.0605(SIC 30 Table JJ-3) = .1501526 (Conversion Factor CF). 501526(CF) X 1.0776 (Table JJ-3plastics generation rate) = .1618 (estimated District plastics generation rate) .1618(plastics generation rate) X 1872(District SIC employee population from Table IV-3) = 303 tons  
Adjusted Total TPY Conversion Factor: 11,632(Tons Generated)/10,052 (Table IV-11 Total TPY) = .38685 Conversion Factor  
Adjusted Total TPY : 18 (Total Tons Yard Waste) X 1.0845014(Conversion Factor) = 19.52 (19 Adjusted Total TPY)

**Table IV-11** Modifications and Omissions:

1. All waste stream materials are rounded to the nearest whole ton. Less than one ton quantities omitted.
2. The two SIC 39 units produce less than 5 tons of waste per year therefore they were omitted.
3. Tree bark omitted from SIC 24 because District's only SIC 24 produces no tree bark waste.
4. The two District SIC 26 industries do not produce sludge or ash waste therefore it was omitted.

**2. Industrial Sector**

**Table IV-11** contains a more comprehensive synopsis of the estimated District industrial waste stream. In the absence of reliable survey generated waste stream breakdown the District used the Solid Waste Management Plan Format, Appendix JJ (Table JJ) (1994). **Table IV-11** includes a general estimated census of the District industrial waste stream. This data is based on multi jurisdiction averages and is not considered to be more than a rough estimate. This table remains unchanged from the previous plan.

## V. Planning Period Projection and Strategies [ORC Section 3734.53(A)(6)]

### A. Planning Period Population Projections

The planning period is 2010-2025. The population of the county has been adjusted to calculate an accurate number of residents in the SWMD. The populations of the city of Delphos and Scott Village have been removed from the District's population. Both are split by county boundaries with the largest population located outside of the District. Any change in the population of the removed communities is considered trivial and therefore not calculated. **Table V-1** contains the Van Wert county population, population adjustments and total estimated District population for the reference year and the planning period.

**Table V-1. District Population Projections**

Year	County Population	Adjustments		Total District Population
		Delphos	Scott Village	
2008	29,439	3,043	204	26,221
2010	29,328	3,043	204	26,081
2011	29,290	3,039	204	26,047
2012	29,252	3,035	203	26,014
2013	29,213	3,031	203	25,979
2014	29,175	3,027	203	25,945
2015	29,136	3,023	203	25,910
2016	29,104	3,020	203	25,881
2017	29,071	3,016	203	25,852
2018	29,039	3,013	202	25,824
2019	29,007	3,010	202	25,795
2020	28,974	3,006	202	25,766
2021	28,907	2,999	202	25,706
2022	28,841	2,992	201	25,648
2023	28,774	2,985	201	25,588
2024	28,708	2,978	200	25,530
2025	28,641	2,972	200	25,469
2026	28,551	2,965	200	25,386
2027	28,461	2,958	200	25,303

Populations provided by the Ohio Department of Development, other years estimated using straight linear calculations. Van Wert is a single county solid waste management district. The population adjustments are for the populations of Delphos and Scott Village that are partially located within the District but are not part of the District.

Sample Calculations for 2025 Van Wert County Population:  
 $(28,708 \text{ 2024 population}) = \frac{[28,641(2025 \text{ population}) - 28,974(2020 \text{ population}) \times 4]}{5} - 3,178 \text{ adjustment} = 25,530$

The population projections were computed by the Ohio Department of Development, Office of Strategic Research, for the years 2010, 2015, 2020 and 2025, published in September 2008. The remaining years were calculated by interpolating a straight-line projection. The District's population is expected to decrease from 26,081 residents in 2010 to 25,303 residents in 2027.

## B. Waste Generation Projections

### 1. Residential/Commercial Sector

Due to the erratic nature of economic factors effecting waste generation within the District will continue to use the reference year generation rate from **Table IV-1** through the planning period. This should be relatively accurate through the five year period before the next Plan update. The adjusted population data is from **Table-VI**.

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

Year	District Adjusted Population	Per Capita Generation Rate	Total Res/Com Generation (TPY)
2008	26,221	4.16	19,900
2010	26,081	4.16	19,801
2011	26,047	4.16	19,775
2012	26,014	4.16	19,750
2013	25,979	4.16	19,723
2014	25,945	4.16	19,697
2015	25,910	4.16	19,671
2016	25,881	4.16	19,649
2017	25,852	4.16	19,627
2018	25,824	4.16	19,606
2019	25,795	4.16	19,583
2020	25,766	4.16	19,562
2021	25,706	4.16	19,516
2022	25,648	4.16	19,472
2023	25,588	4.16	19,426
2024	25,530	4.16	19,382
2025	25,469	4.16	19,336
2026	25,386	4.16	19,273
2027	25,303	4.16	19,210

Reference year per capita generation rate taken from "Annual District Report Review for 2008" by Ohio EPA.

Sample Calculation for waste generation in 2020:  

$$\frac{25,766 \text{ (pop. for 2020)} \times 4.16 \times 365 \text{ (days in year)}}{2,000 \text{ (pounds per ton)}} = 19,562$$

## 2. Industrial Sector

The District reviewed the industrial projection data from the “Ohio Department of Job and Family Services 2016 Ohio Job Outlook West Central Ohio, Economic Development Region 3” Industry Employment Projections Report, 2008-2016”. According to the report region three, including the District, would experience an overall growth of 3.9% but a manufacturing employment loss of 7.3% between 2006 and 2016. This report does not include the employment impact of the economic recession that began in 2007 and is therefore considered to be flawed by the District.

The District is forecasting that a modest economic recovery will return and maintain industrial employment to reference year levels over the first five years of the planning period. For years 2015 through 2027 the District will use, derived from the aforementioned report, a -3.4% multiplier to calculate the loss of industrial employment. The -3.4% multiplier represents the difference between the overall industrial employment forecasted gain of 3.9% and forecasted manufacturing loss of 7.3%.

**Table V-3A Projected Industrial Employment 2008, 2010 & 2020**

2008 employed	Tons Waste Gen	2010 employed	2015 employed	2020 employed	2025 Employed
3,939	12,867	3,939	3,939	3,872	3,805

The forecast is generated by multiplying the number of employees by the percent of employment change for the given period of time. 2015-2025 Example: 3,939 (# employees) -3.4% (134 employees) = 3,805 employees

Using the aforementioned forecasting data the District is assuming a 437 ton decrease in Industrial waste generation will take place during the planning period and a decrease of 134 employees in the industrial sector. Table V-3B contains the 2010-2025 industrial waste generation forecast. Because the high concentration (3,643 of 3,939) of industrial employment that is manufacturing based the District did not calculate industrial employment by individual SIC.

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

Year	Employees	Industrial waste generation TPY
2008 reference year	3,939	12,867
2010	3,939	12,867
2011	3,939	12,867
2012	3,939	12,867
2013	3,939	12,867
2014	3,939	12,867
2015	3,939	12,867
2016	3,926	12,823
2017	3,912	12,780
2018	3,899	12,736
2019	3,885	12,692
2020	3,872	12,649
2021	3,859	12,605
2022	3,845	12,561
2023	3,832	12,517
2024	3,818	12,474
2025	3,805	12,430
2026	3,792	12,386
2027	3,778	12,343

Sample Calculation for determining waste generation between forecasted years 2015 & 2025:

$$\frac{[12,867 \times .966(-3.4\%) = 12,430] - 12,867}{10 \text{ (number of years)}} = -43.7 \text{ (annual amount of decrease)}$$

10 (number of years)

It is plausible that the District industrial sector could experience a greater change in a single year than forecasted for the entire planning period. A new large industrial facility, the closing of an existing facility of significant size, or economic factors effecting the production of the existing facilities could dramatically impact industrial waste generation and reduction during the planning period. Van Wert has a highly motivated Economic Development Committee that has partnered with business and local governments to develop infrastructure and land for an industrial super site in 2010-2011. Van Wert and Paulding counties are also in the 152 turbine construction phase one of a wind generation project. The ADR will provide more accurate information on changes in industrial waste generation.

### 3. Total Waste Generation and Composition

The District assumes the waste stream will remain relatively static in composition during the planning period. There are no significant changes in waste composition anticipated in the residential/commercial or industrial sectors of the District. Section IV contains information on waste composition.

**Table V-4** represents total waste generation from **Tables V2** and **V3**. The per person generation rate is forecasted to increase from 7.47 pounds-per-person-per-day to 7.35 pounds-per-person-per-day through the planning period.

**Table V-4 Total District Planning Period Waste Generation**

Year	Adjusted Population	Res/Com	Industrial	Exempt	Total	Gen Rate (lbs/person/day)
2008 reference	26,221	19,900	12,867	2,960	35,727	7.47
2010	26,081	19,801	12,867	2,960	35,628	7.42
2011	26,047	19,775	12,867	2,960	35,602	7.42
2012	26,014	19,750	12,867	2,960	35,577	7.42
2013	25,979	19,723	12,867	2,960	35,550	7.42
2014	25,945	19,697	12,867	2,960	35,524	7.42
2015	25,910	19,671	12,867	2,960	35,498	7.42
2016	25,881	19,649	12,823	2,960	35,432	7.42
2017	25,852	19,627	12,780	2,960	35,367	7.41
2018	25,824	19,606	12,736	2,960	35,302	7.41
2019	25,795	19,583	12,692	2,960	35,235	7.41
2020	25,766	19,562	12,649	2,960	35,171	7.40
2021	25,706	19,516	12,605	2,960	35,081	7.39
2022	25,648	19,472	12,561	2,960	34,993	7.38
2023	25,588	19,426	12,517	2,960	34,903	7.37
2024	25,530	19,382	12,474	2,960	34,816	7.36
2025	25,469	19,336	12,430	2,960	34,756	7.35
2,026	25,386	19,273	12,386	2,960	34,619	7.35
2,027	25,303	19,210	12,343	2,960	34,513	7.34

### **C. Planning Period Goals and Strategies**

The District is currently in compliance with Goal #1 of the State Solid Waste Management Plan (1995). This goal requires that recycling opportunity for at least seven of eleven materials be available to 90 percent of the District population and that each sector of waste generators have access to at least four of the aforementioned materials. The referenced sectors of the waste generating population within the District include residential, commercial and institutional facilities. The previous plan was based on reaching compliance through a percentage of waste reduction as described as Goal #2 of the state plan. This plan is based on maintaining compliance by providing recycling access as described as Goal #1 of the state plan.

The 1995 State Plan requires the District to propose or continue implementation of waste reduction strategies which will enable the District to meet the 1995 State Plan goals. In general they are as follows:

Goal #1 insure availability of reduction/ recycling opportunities/programs for residential/commercial waste.

Goal #2 reduce and/or recycle at least 50 percent of the total waste generation by the year 2000.

Goal #3 provide information and technical assistance on source reduction.

Goal #4 provide informational and technical assistance on recycling, reuse, and composting opportunities.

Goal #5 develop strategies managing scrap tires and household hazardous waste (HHW).

Goal #6 prepare a market development strategy (optional).

#### **1. Existing District Recycling Programs**

The District currently has an expansive recycling infrastructure that provides access to all segments of District population including commercial, industrial and institutional. The access is provided through weekly curbside, drop-off, scheduled and on-call recycling collection, a MRF, and a composting facility. There are also educational programs in place that reach a large percentage of the District population through the news media, facility tours, presentations to school and civic groups, brochures and handouts, parades and special event such as the Earth Day Open House. The existing infrastructure and programming is further detailed in Section IV.

#### **Curbside Recycling Collection (Goal #1)**

- 1) Weekly program managed and staffed by the District since 1999
- 2) Recycling collection for commercial, industrial, institutional, residential segments of District population.
- 3) Existing program evaluation method: Number of participating households and weight of material.
- 4) Serving City of Van Wert, Villages of Convoy, Elgin, Middle Point, Ohio City, Venedocia, Wilshire, Wren (52 % residential participation rate of 5,733 households possible).
- 5) Nine hundred and sixty-one tons of material collected in the reference year (2008)
- 6) Trucks are weighed prior to offloading at the District MRF. Scale tickets are provided.

#### **Nonprofit Collection (Goal #1)**

- 1) Program managed and staffed by the District
- 2) The District uses weekly curbside, weekly or on-call, roll-off or trailer rotation or box truck collection.
- 3) There are trailers or roll-offs permanently stationed at the four largest schools (Crestview, Lincolnview, Vantage Vocational and Van Wert) collecting 39 tons in the reference year.
- 4) Existing program evaluation method: Number of participants and weight of material.
- 5) Scheduled or call-as-needed recycling collection service to all nonprofit entities in the District.
- 6) An undetermined amount of material was collected in the reference year
- 7) The District uses multiple program/vehicle routes to provide collection.
- 8) Existing program evaluation method: Number of participants and weight of material.

#### **Community Clean-up Collection (Goal #1)**

1. Participation in annual and/or biannual community cleanup days in villages within District
2. Provide staff and equipment to collect recycling materials based on community need

### **Township House Drop-Off (Goal #1)**

- 1) A Monthly program managed and staffed by the District since 1994.
- 2) The District uses a pickup truck and box trailer for the collection.
- 3) Serving Harrison, Hoaglin, Jackson, Jennings, Liberty, Ridge, Tully, Union, Wilshire and York townships.
- 4) The District uses scale weight tickets for material weight.
- 5) Existing program evaluation method: Number of participants and weight of material.

### **District Recycling Center (Goal #1) (Goal #5)**

1. The District Recycling Center (RC) includes the District's office, a drive-through drop-off, MRF and compost facility.
2. The RC is centrally located in the northern edge of the City of Van Wert on Washington Street at the intersection of U.S. 30 and U.S. 127 within one half mile of the largest shopping mall in the District.
3. In addition, the recycling center serves as a drop-off location for appliances, lead acid batteries, books, e-waste, florescent tube lights, used oil, vinyl siding, smaller amounts of ferrous and nonferrous metals and tires. This activity is evaluated by the weight of material.
4. Exchange area for gently used items. Drop and swap.

### **Drive-Through Drop-off (Goal #1)**

1. The District facility provides recycling access to all segments of the District population.
2. It is open on Monday, Wednesday and Friday and two Saturdays per month.
3. The drive-through is housed in a 75' by 100' building heated with used motor oil.
4. The activity is evaluated by the number of participants (cars) and weight of material.

### **Material Recovery Facility (MRF) (Goal #1)**

1. All the recycled material collected by the District within or outside of the District is processed at the MRF.
2. Approximately eight tons per day is processed at the facility.
3. The operation is overseen by District staff with supplemental labor provided through the court systems, Job and Family Services, and the Federal Experience Works program.
4. The MRF currently processes in two streams although a single stream collection and processing evaluation is scheduled to take place during this planning period.
5. A Marathon Nexgen autotie is the principal baler used for sorted material. A second horizontal baler is used for computer ABS plastic. The District uses four vertical balers for processing and storing low volume materials such as shopping bags, vinyl siding and aluminum foil.

### **Composting Facility (Goal #1)(Goal #4)**

1. A Class IV composting facility, open five days per week and two Saturdays per month, is incorporated into the Recycling Center and provides access to all segments of the District population.
2. Woody and herbaceous vegetation are accepted for processing into firewood, single and double ground wood mulch and screened and unscreened compost.
3. The finished regular products are provided free to District residents for hand loading. A fee, based on the processing cost of the material, is charged per backhoe scoop for loading of materials. Free loading service is provided for not-for-profit activities. A dumping fee is charged to commercial tree trimmers for brush disposal.
4. The District uses a backhoe to handle materials. Grinding/screening contractors provide their own equipment.
5. The facility is annually evaluated based on tons of materials processed. In the reference year (2008) 3,201 tons of materials were processed. The District estimates volume of material by measuring piles and applying EPA provided weight formulas.

### **Other Collection Commercial/Industrial (Goal #1)**

1. The commercial/industrial recycling collection program, focusing on commercial/industrial units that may fail to attract private sector collection providers is ongoing.



2. The growing program, managed and staffed by the District, uses a variety of collection equipment for commercial/industrial collection.
3. Regularly scheduled or scheduled on call and often included in multi-unit collection activities.
4. Facility waste audits are performed at no cost to the facility and key company staff members are encouraged to tour the District MRF as an opportunity to gain understanding and motivation.
5. The District will continue to expand this service through the planning period.
6. The continued program growth is illustrated by the number of participants and weight of materials.

#### **Other Programs: Out-Of-District Collection**

1. The District has an intergovernmental contract with Allen and Putnam County to provide recycling drop-off collection and processing for two communities in Putnam County and six communities in Allen County.
2. The collection is managed and staffed by the District using a variety of collection equipment.
3. All materials collected are weighed and credited to the generating SWMD.
4. A fee is charged for the collection and processing service.

#### **2. Existing Education/Information Outreach Activities**

Educational activities are focused on all segments of Van Wert and adjacent counties. The District does not have a designated education/information (E/I) staff person and is not planning to create a position to fulfill that shortfall. Therefore, education/information activities are performed by the District Director or other capable District staff. Although the District does not have a designated E/I staff it does have facilities that offer E/I opportunities to all facets of the communities served by the District. It is challenging to quantify the success of E/I activities beyond immediate feedback from targeted audience.

#### **Collaborative Partnership Clean and Green Committee (Goal #3), (Goal #4)**

1. The Clean and Green committee is a collaborative partnership of natural resource conservation groups, and other entities and organizations to promote common resource, conservation and beautification agendas.
2. Includes contributing to and participating in non District sponsored activities and opening District sponsored activities to other like minded groups.
3. A web site sponsored in part by the District and under the banner of "Van Wert County Clean and Green" serves as an informational hub for various organizations activities relating to natural resource conservation.
4. Participants include OSU extension, Van Wert Soil and Water Conservation District, Starr Commonwealth, Van Wert city/county school curriculum coordinators, Van Wert County Township Association and the Van Wert YMCA.

#### **Recycling Center Tours (Goal #3), (Goal #4)**

1. Guided tours through the Recycling Center (MRF and Compost Facility) are provided to 5-12 civic, church, school, scouting and other groups each year.
2. The District hosts tour groups ranging in size from two to sixty people from cub scouts to senior groups.
3. The educational tours provide first hand exposure to the impact of recycling activities.
4. District staff serves as tour guides and recycling guides and/or fact sheets are given to tour guest.

#### **Recycling Process Training and Consulting (Goal #3), (Goal #4)**

1. Training and consulting service is provided to commercial, industrial and institutional units investigating disposal alternatives. This service has proven very effective in increasing recycling efforts and tonnage in facilities that, in most cases, generate recoverable material in quantities or qualities that do not interest commercial recycling brokers because of smaller quantities.
2. The District uses printed materials, public presentations, news media, word-of-mouth, and individual social interaction with decision makers to continually expand this activity. In many cases the District returns to the facility to reevaluate waste reduction programs.
3. District staff facilitates these services.

### **Earth Day Open House Celebration (Goal #3), (Goal #4)**

1. An annual promotional celebration takes place on the Saturday that falls closest to April 22 or Earth Day
2. 300-500 participants have the opportunity to learn how their recycling is collected and processed
3. Informative displays, printed materials and District staff answer questions and discuss programs
4. Tree seedlings and other promotional items are given away and food and refreshments are provided
5. District provides free mulch loading services to attract residents to the recycling center

### **Community Parades (Goal #3)**

1. The District participates in a number of parades each year with District recycling vehicles.
2. The parades include: Peony Festival and Holiday at Home in Van Wert, Lambert Days in Ohio City, Pioneer Parade in Wilshire, Homecoming Parade in Wren, and the Community Days parade in Convoy.

### **School/Civic Event Participation and Presentations (Goal #3), (Goal #4)**

1. Staff provides presentations for school assemblies, classrooms, scouts, and school age groups.
2. The District staff also provides educational presentations to church, service clubs and other adult groups.

### **Not Just Cows and Plows Day (Goal #3), (Goal #4)**

1. Annual activity involving all city and county, parochial and home school sixth grade students
2. Employs multiple stations focusing on agriculture and natural resource conservation
3. The District supplies opening and closing ceremonies and printed materials

### **News and Other Media (Goal #3), (Goal #4)**

1. District produces 26-30 scheduling and topical news releases and participates in 2-5 feature stories
2. The District also takes advantage of local print advertising promotions to run full or half page ads
3. Use Chamber of Commerce and other organization publications

### **Radio Advertising (Goal #3), (Goal #4)**

1. During the reference year the District contracted with a local radio station to run 42 ad spots per month
2. District will continue the radio ads to a greater or lesser degree as funding is available

### **Distribution of Printed Material (Goal #3), (Goal #4)**

1. Printed materials generated and/or provided by the District, Ohio EPA, ODNR
2. Distribute to schools, civic and social clubs and groups and at high traffic areas
3. Provides a roadmap for waste reduction programs and services and promote the goals of the Plan

### **Internet Advertising & Web Page (Goal #3), (Goal #4)**

1. Current continual ad banner in one of the local electronic newspapers that is evaluated monthly
2. District has developed a web page at [recyclevw.org](http://recyclevw.org)

**Individual Contact (Goal #3), (Goal #4)** The District places a high value on individual contacts and social interaction to promote service opportunities and the goals of the Plan.

**Other Programs: Grant Application** District uses ODNR, Department of Recycling and Litter Prevention, to supplement capital investments in buildings, grounds and collection and processing equipment.

### **Other Programs: Strategic Planning (Goal #1) (Goal #3) (Goal #4)**

The District manages a strong and diverse program going into this planning process. Much of the current strategies are an expansion or tweaking of existing programs. Therefore, not a lot of emphasis is placed on new waste reduction strategies. Needed improvements were also addressed for safety, facility appearance, traffic control, staffing, and other areas. All of the areas of concern have been addressed under the 2004-2020 Plan. The District will stay abreast of

program issues and opportunities through future strategic planning research activities and implement cost effective improvements that increase the effectiveness and efficiency of District strategies.

**Existing/ongoing:** The District intends to continue and when possible expand the existing Planning Period Goals and Strategies throughout the planning period although the continuance of some of the activities is dependent on funding and multi-entity collaborations.

### **3. Expanded Recycling Strategies**

#### **Evaluate Collection and Processing Capacity and Efficiency Though Planning Period (Goal #1)**

The District will research single stream recycling collection and processing for possible implementation as a long term project. If the evaluation is positive and approved by Board and PC the project will enter the scheduling phase. The cost of a single stream sorting system would require the District to accumulate funding over a period of years and/or finance the investment. If the project is approved it is not anticipated that there will be any significant expense to the District prior to the next Plan update. The District will evaluate the effectiveness of the Township Drop-off program as well for possible site mergers. The evaluations will be completed by District staff for PC and Board consideration. Planned 2011-2012.

#### **Residential/Commercial Sector**

##### **Equipment and Program expansion (Goal #1)**

The District will continue to increase the amount and improve the quality of the collection equipment used for commercial, industrial and institutional collection in order to continually expand the program. The funds are included in "Recycling Collection" in Table VIII-5 as part of an ongoing investment using ODNR Community Development grant and local funds to expand collection services. This equipment includes trucks, roll-off trailers and bins, compartmentalized trailers, recycling receptacle containers and special venue collection equipment. Ongoing activity

##### **HHW (Goal # 5)**

The District will continue to pursue ongoing opportunities to safely reduce HHW inventories as its primary HHW focus. The objective of the HHW management program in the District will be to assure that environmentally sound and cost effective generation reduction and disposal options are available to District residents. These options are coupled with HHW generation reduction and disposal educational activities. Priority will be given to HHW programs that are the most cost effective. The District is considering hosting a limited HHW collection event when and if funds are available and doing so will not place a burden on the funding of other programs. Ongoing activity

##### **Education/Information Outreach Activities(Goal #3) (Goal #4)**

District will continue to pursue opportunities to increase the effectiveness of education/information activities

##### **Other Activities: Facility Improvements Though Planning Period**

Continue to improve all facilities traffic lanes and customer access. Existing/ongoing

##### **Other Activities: Data system Improvements**

Improve data gathering and processing systems for all district programs and activities. 2010 ongoing

##### **Industrial Sector (see also Equipment and Program Expansion) Goal #1**

##### **Industrial, Other Collection and Consulting Programs/Activities (Goal #1) (Goal #3) (Goal #4)**

The District will continue to expand this service through the planning period using aforementioned outreach programs and equipment expansion. Existing/ongoing

No reliable residential/commercial recycling forecasting data is available for the individual District strategies beyond the District's own historic data. More reliable forecasting data continues to be established through annual program reporting.

The District is anticipating that the educational programs will continue to stimulate growth in the residential commercial recycling rate. In **Table V-5** the District is anticipating a one percent annual rate of total increase through the planning period to all activities except the Township Drop-off and Recycling Center Drop-off programs. The Township House will remain unchanged throughout the planning period due to the shift in participation to the Recycling Center Drop-off. The Recycling Center Drop-off is anticipated a minimum of two percent through the planning period.

The District is anticipating an overall reduction in the amount of industrial waste generated but expects recycling tonnage to maintain the reference year amount during the planning period based on growing interest in recycling within the District. The District will use the reference year industrial recycling tonnage throughout the planning period. The reference year data should be reliable though the next plan update.

**TABLE V-5 Strategies for Residential/Commercial Source Reduction and Recycling**

Year	Source Reduction	District Curbside Recycling	District Nonprofit Collection	Township House Drop-off	Recycling Center Drop-off	Drop-off/ Broker/ other collection	District Compost Facility	Totals
REF	N/A	961	39	75	297*	755*	3,201	5,328
2010	N/A	971	39	75	303	763	3,201	5,352
2011	N/A	980	40	75	310	770	3,201	5,376
2012	N/A	990	40	75	315	778	3,201	5,399
2013	N/A	1,000	41	75	321	786	3,201	5,424
2014	N/A	1,010	41	75	328	794	3,201	5,449
2015	N/A	1,020	41	75	334	801	3,201	5,472
2016	N/A	1,030	42	75	341	809	3,201	5,498
2017	N/A	1,041	43	75	348	818	3,201	5,526
2018	N/A	1,051	43	75	355	826	3,201	5,551
2019	N/A	1,062	44	75	362	834	3,201	5,578
2020	N/A	1,072	44	75	369	842	3,201	5,603
2021	N/A	1,083	44	75	377	851	3,201	5,631
2022	N/A	1,094	45	75	384	859	3,201	5,658
2023	N/A	1,105	45	75	392	869	3,201	5,687
2024	N/A	1,116	46	75	400	877	3,201	5,715
2025	N/A	1,127	46	75	408	885	3,201	5,742
2026	N/A	1,138	47	75	417	894	3,201	5,772
2027	N/A	1,150	47	75	424	903	3,201	5,800

Although source reduction is addressed in this plan and expected to occur, no sound data is available to forecast tonnage, therefore it is not included in the table. 2. Curbside includes some commercial/industrial collection. 3. To avoid double counting Recycling Center Drop-off does not include white goods and ferrous and nonferrous scrap. Scrap yard materials not included.

**Table V-6 Source Reduction/Recycling Tons From Industrial Waste Strategies**

Year	Source Reduction Strategies /1	Combined Recycling Strategies Projected Increase In TPY 0% Annual	Total Recycled
REF.	N/A		8,365
2010		00	8,365
2025		00	8,365

*/1 Although source reduction is addressed in this plan and is expected to occur, no sound data is available to forecast tonnage, therefore it is not included in the table.*

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

## A. District Methods for Management of Solid Waste

### 1. Calculation of Capacity Needs

Table VI-1 includes management methods and total waste to be managed during the planning period.

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

Year	Tons of Waste Generated	Tons Source Reduced	Net Tons to be Managed by SWMD	Management Method Used and Processing Capacity Required			
				Recycling	Transfer	Yard Waste Composting	Landfilling
2008	35,728	0	35,728	10,492	8,530	3,201	22,035
2011	35,602	0	35,602	10,540	8,460	3,201	21,861
2012	35,577	0	35,577	10,563	8,432	3,201	21,813
2013	35,550	0	35,550	10,588	8,403	3,201	21,761
2014	35,524	0	35,524	10,613	8,373	3,201	21,710
2015	35,498	0	35,498	10,636	8,346	3,201	21,661
2016	35,432	0	35,432	10,662	8,316	3,201	21,569
2017	35,367	0	35,367	10,690	8,285	3,201	21,476
2018	35,302	0	35,302	10,715	8,256	3,201	21,386
2019	35,235	0	35,235	10,742	8,225	3,201	21,292
2020	35,171	0	35,171	10,767	8,197	3,201	21,203
2021	35,081	0	35,081	10,795	8,152	3,201	21,085
2022	34,993	0	34,993	10,822	8,109	3,201	20,970
2023	34,903	0	34,903	10,851	8,064	3,201	20,851
2024	34,816	0	34,816	10,879	8,020	3,201	20,736
2025	34,726	0	34,726	10,906	7,976	3,201	20,619
2026	34,619	0	34,619	10,930	7,924	3,201	20,488
2027	34,513	0	34,513	10,955	7,872	3,201	20,357
Landfilling includes construction and demolition debris							

**Table VI-2** includes the summary for residential and commercial waste and the management methods and total waste to be managed during the planning period. **Table VI-3** includes the summary for industrial waste and the management methods and total waste to be managed during the planning period. Exempt waste is included in disposal capacity analysis.

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

Year	Tons of Res/Comm Waste Generated	Tons Source Reduced	Net Tons to be Managed by SWMD	Management Method Used and Processing Capacity Required			
				Recycling	Transfer	Yard Waste Composting	Landfilling
2008	19,901	0	19,901	2,127	8,277	3,201	14,573
2011	19,775	0	19,775	2,175	8,207	3,201	14,399
2012	19,750	0	19,750	2,198	8,180	3,201	14,351
2013	19,723	0	19,723	2,223	8,150	3,201	14,299
2014	19,697	0	19,697	2,248	8,121	3,201	14,248
2015	19,671	0	19,671	2,271	8,093	3,201	14,199
2016	19,649	0	19,649	2,297	8,066	3,201	14,151
2017	19,627	0	19,627	2,325	8,038	3,201	14,101
2018	19,606	0	19,606	2,350	8,011	3,201	14,055
2019	19,583	0	19,583	2,377	7,983	3,201	14,005
2020	19,562	0	19,562	2,402	7,957	3,201	13,959
2021	19,516	0	19,516	2,430	7,914	3,201	13,885
2022	19,472	0	19,472	2,457	7,874	3,201	13,814
2023	19,426	0	19,426	2,486	7,831	3,201	13,739
2024	19,382	0	19,382	2,514	7,790	3,201	13,667
2025	19,336	0	19,336	2,541	7,749	3,201	13,594
2026	19,273	0	19,273	2,565	7,699	3,201	13,507
2027	19,210	0	19,210	2,590	7,649	3,201	13,419
Transfer = Waste landfilled x .57 (the percentage of landfilled waste sent through a transfer station in 2008)							
Landfilling does not include construction and demolition debris							

Although source reduction is addressed in this plan and is expected to occur, no sound data is available to forecast tonnage, therefore it is not included in this table.

The District controls a large capacity of the District recycling processing needs and 100 percent of its composting needs. For more information on the Districts compost facility see **Table VI-3**. The District assumes that there is a growing market for recycled material and therefor there will be brokers and haulers competing for recycling opportunities with the Districts largest commercial and industrial generators. Prior to the 1999 National Serv-All and Waste Management provided curbside recycling service to the District.

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

Year	Tons of Industrial Waste Generated	Tons Source Reduced	Net Tons to be Managed by SWMD	Management Method Used and Processing Capacity Required			
				Recycling	Transfer	Yard Waste Composting	Landfilling
2008	12,867	0	12,867	8,365	253		4,502
2011	12,867	0	12,867	8,365	252		4,502
2012	12,867	0	12,867	8,365	252		4,502
2013	12,867	0	12,867	8,365	252		4,502
2014	12,867	0	12,867	8,365	252		4,502
2015	12,867	0	12,867	8,365	252		4,502
2016	12,823	0	12,823	8,365	250		4,458
2017	12,780	0	12,780	8,365	247		4,415
2018	12,736	0	12,736	8,365	245		4,371
2019	12,692	0	12,692	8,365	242		4,327
2020	12,649	0	12,649	8,365	240		4,284
2021	12,605	0	12,605	8,365	237		4,240
2022	12,561	0	12,561	8,365	235		4,196
2023	12,517	0	12,517	8,365	233		4,152
2024	12,474	0	12,474	8,365	230		4,109
2025	12,430	0	12,430	8,365	228		4,065
2026	12,386	0	12,386	8,365	225		4,021
2027	12,343	0	12,343	8,365	223		3,978
Transfer = Waste landfilled x .56 (the percentage of landfilled waste sent through a transfer station in 2008)							

## 2. Contingencies for Capacity Assurance and District Program Implementation

The expansion project at the National Serv-All landfill added twenty years of life to that facility. Over sixty percent of the Districts landfill use in the reference year is at the National Serv-All facility. **Table III-1** demonstrates adequate capacity for all District solid waste existing within reasonable transportation distance. The District does not foresee any challenges to landfill disposal capacity over the life of the plan.

Because the District owns and operates the recycling infrastructure there should not be any interruption to recycling access. In addition, National Serv-All, Waste Management of Lima, and Porter sanitation of Paulding provide recycling collection services in the general area.

This plan and the schedule of implementation contained herein represent the Districts forecast based on the best available data. However, unforeseen budgetary restrictions could force the District to adjust the Plan implementation schedule. If so the District intends to complete planned activities within the planning period as soon as it becomes possible to do so. See also “Process to Determine Material Change in Circumstances” in Section 1 [C].



**TableVI-4 Waste Management Method: Landfill**

Facilities Used by District: name (county, state)	AMDWRL (tons/day)	Remaining Capacity				Tons of SW managed by each facility							
		Years	Data Source	Airspace (cubic yards)		2008	2011	2012	2013	2014	2015	2016	2017
				Gross	Net								
Celina Sanitary Landfill (Mercer, OH)	499	10	2008 FDR, Table 13	1,055,871	Unknown	2,510	2,405	2,399	2,394	2,388	2,383	2,373	2,362
Defiance County Sanitary Landfill (Defiance, OH)	500	> 100	2008 FDR, Table 13	12,640,592	Unknown	4,339	4,372	4,363	4,352	4,342	4,332	4,314	4,295
Wyandot County Environmental Sanitary Landfill (Wyandot, OH)	4,500	> 100	2008 FDR, Table 13	21,839,947	Unknown	1,400	1,312	1,309	1,306	1,303	1,300	1,294	1,289
Hancock County Sanitary Landfill (Hancock, OH)	750	42	2008 FDR, Table 13	7,626,612	Unknown	5	0	0	0	0	0	0	0
National Serv-All Landfill (Allen, IN)	N/A	20	Republic	7,200,000	Unknown	11,728	13,772	13,742	13,709	13,677	13,646	13,588	13,530
Jay County Landfill (Jay, Indiana)	N/A	Unknown	N/A	Unknown	Unknown	2,048	0	0	0	0	0	0	0
Other Indiana Landfills	N/A	Unknown	N/A	Unknown	Unknown	4	0	0	0	0	0	0	0
Totals						22,035	21,861	21,813	21,761	21,710	21,661	21,569	21,476
2008 FDR, Table 13 refers Ohio EPA's 2008 Facility Data Report, Table 13													
At the end of 2008, the Celina Sanitary Landfill had enough remaining capacity to accept waste through 2018. Beginning in 2019, waste that ordinary would go to the Celina Sanitary Landfill was attributed to the National Serv-All Landfill													
No waste was attributed to the Jay County Landfill for the planning period because that facility has not been designated by the District. That waste was attributed to the National Serv-All Landfill													

**TableVI-4 Waste Management Method: Landfill, continued**

Facilities Used by District (county, state)	Tons of SW Managed by each facility									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Celina Sanitary Landfill (Mercer County, Ohio)	2,352	0	0	0	0	0	0	0	0	0
Defiance County Sanitary Landfill (Defiance County, Ohio)	4,277	4,258	4,241	4,217	4,194	4,170	4,147	4,124	4,098	4,071
Wyandot County Environmental Sanitary Landfill (Wyandot County, Ohio)	1,283	1,278	1,272	1,265	1,258	1,251	1,244	1,237	1,229	1,221
Hancock County Sanitary Landfill (Hancock County, Ohio)	0	0	0	0	0	0	0	0	0	0
National Serv-All Landfill (Allen County, Indiana)	13,473	15,756	13,358	13,284	13,211	13,136	13,064	12,990	12,907	12,825
Jay County Landfill (Jay County, Indiana)	0	0	0	0	0	0	0	0	0	0
Other Indiana Landfills	0	0	0	0	0	0	0	0	0	0
Totals	21,386	21,292	21,203	21,085	20,970	20,851	20,736	20,619	20,488	20,357

**Table VI-5: Waste Management Method: Transfer Facility**

Facilities Used by District name, (county, state)	Tons of SW managed by each facility																	
	2008	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
WMI Lima Transfer Facility (Allen, OH)	2,048	2,030	2,024	2,017	2,010	2,003	1,996	1,988	1,981	1,974	1,967	1,956	1,946	1,935	1,925	1,914	1,902	1,889
Van Wert County Refuse Transfer Station	6,482	6,430	6,408	6,386	6,363	6,343	6,320	6,297	6,275	6,251	6,230	6,196	6,163	6,129	6,095	6,062	6,022	5,983
Totals	8,530	8,460	8,432	8,403	8,373	8,346	8,316	8,285	8,256	8,225	8,197	8,152	8,109	8,064	8,020	7,976	7,924	7,872
The flow of waste to transfer facilities could change if the Young's Waste transfer facility beings operating in 2012 as is expected.																		
In 2008, about 44% of the solid waste disposed in landfills was first routed through a transfer facility.																		
In 2008, of the waste routed through transfer facilities, 76% went to the Van Wert facility and 24% to the WMI Lima facility																		

**Table VI-6 Composting/Yard waste Management Facilities used by the District**

Facility Name	Type	Location County Address /1	Waste from the SWMD		TPY Received	Process Capacity-		Compost Produced
			Type	Amount		tons Daily	Annual	
SWMD Compost	PA Class IV	SWMD Recycling Center	Woody and herbaceous vegetation	3,201	3,201	16	4000	1,200 Estimated

PA - Publically Available Processing capacity limited by existing equipment.

**Table VI-6A Recycling Facilities used by the District**

District MRF	MRF	Same as SWMD Nonprofit	All SWMD	8 - 4 M - F	1,368	77 %	14 TPD  2,380 TPY
						22 %	
						1 %	
Century Trading 1224 W Main Van Wert OH 45891	PA BR SY DO BB	ALC, ALS, STCS, OTNF, OTFE, LAB	Van Wert County	8 - 5 M-F 8 - 12 Sat	2,481	N/A	20 TPD  5,000 TPY
						N/A	
						N/A	
City Waste Paper P.O. Box 26 Van Wert OH 45891	PA, DO, BR, HC	OCC	Van Wert County	No fixed hours for DO	583	N/A	N/A TPD  N/A TPY
						N/A	
						N/A	

**B. Demonstration of Access to Capacity**

The highest amount of annual disposal capacity the District will need, from **Table VI-1**, is 21,861 tons in 2011. Adequate capacity exists in northwest Ohio and Northeast Indiana to meet the Districts disposal needs over the life of the planning period. In accordance with ORC Section 3734.53(A)(12)(a), identification of the solid waste landfill, transfer and resource recovery facilities have been identified in **Table VI-4** and **Tables VI-5**. Additional information about transfer stations and landfills serving the Districts disposal needs can be found in **Table III-1** and **Table III-2**.

A total of 22,034 tons were disposed of in Ohio and Indiana landfills by the District in 2008. The National Serv-All (Indiana) landfill is the principal recipient of solid waste generated in Van Wert County. National Serv-All has an operating lease with the County Commissioners for the transfer facility. In addition to the operating lease National Serv-All entered into a disposal agreement with the BOARD, dated December 15, 1995. The agreement provides for twenty years of disposal of solid waste generated in the District. No limit in the quantity of solid waste is stipulated in the agreement.

National Serv-All received approval for a landfill expansion that added 20 years to the capacity of the landfill. The National Serv-All expansion will provide the District with adequate disposal capacity for the planning period. The District

anticipates the majority of District generated waste will go to the National Serv-All facility through the planning period. It is difficult to capture the nature of waste flow and therefore no expectations are placed on other facilities.

The Jay County and Caldwell landfills were not designated by the BOARD to receive waste from the District during the reference year. The District does not anticipate that the Caldwell facility will seek designation in the future due to the extended transportation distance from the District. The Jay County landfill in Indiana and the Hancock County Landfill in Ohio has expressed interest in being designated.

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

The District will evaluate single stream collection and processing and continue to take advantage of new opportunities, as they become available, to better manage the District’s waste stream. The District will also continue to improve existing programs and facilities and evaluate their effectiveness. Young’s Waste is in the process of developing a transfer station that will be fully licensed in 2012.

**D. Identification of Designated Facilities**

The Facilities in Table VI-7 are designated by the BOARD to accept solid waste generated in the District until May 2014. Prior to the conclusion of the existing designations the District request new and renewal proposals for designation.

**Table VI-7 Designated Facilities Used by District**

Facility Name	Type	Location		Years	Remaining Capacity	
		County	State		Airspace	
					Gross (tons)	Net
Defiance County Landfill	PA	Defiance	OH	7.3	629,700	629,700
Wyandot County Landfill	PA	Wyandot	OH	49.5	19,456,000	19,456,000
Celina Sanitary Landfill	PA	Mercer	OH	4.5	478,631	478,631
Evergreen WMI Landfill	PA	Wood	OH	17.3	13,237,547	13,237,547
National Serv-All Landfill	PA	Allen	IN	21	2,400,000	2,400,000
Van Wert Refuse Transfer Station	PA	Van Wert	OH	N/A	N/A	N/A
Lima Transfer Station	PA	Allen	OH	N/A	N/A	N/A

**E. Authorization Statement to Designate**

The Board of Directors of the Van Wert SWMD is hereby authorized to establish facility designations in accordance with Section 343.014 of the Ohio Revised Code. The BOARD will designate facilities, pursuant to Section 343.014 of the Ohio Revised Code, through the following steps:

- 1) BOARD adopts resolution stating procedures established by the BOARD for solid waste transfer or disposal facilities located within or outside of the State of Ohio to be designated by the BOARD.

- 2) Legal notices published requesting proposals from facilities seeking to be designated.
- 3) After review of approval of qualifying proposals BOARD adopts Resolution of Intent to Designate Listed Facilities and establishes a public comment period. Legal notice published.
- 4) Notices of intent to designate facilities are sent to the fifty largest waste generators.
- 5) BOARD adopts resolution of final designation.
- 6) Letter of notification of designation sent to all known waste haulers operating in District.
- 6) Facilities become designated on appointed date.

**F. Waiver Process for Non-designated Facilities**

The District BOARD reserves the right, under special circumstances, to grant waivers allowing solid waste to flow to non-designated facilities during the planning period. The BOARD will review any waiver request and determine if granting the waiver, pursuant to 343.01 (1)(2) of the Ohio Revised Code, is consistent with the projections made in the Plan or adversely affects the District’s implementation or financing of the Plan.

**Table VI-8 Processing Capacity Needs Based on Historic Trends**

Year	Management Method Used and Res/Com and Industrial MSW Processing Capacity Required Tons-per-Year						
Year	Source Reduction /Recycling	Yard Waste Composting	YW Land Application	Incineration	MSW Composting	Landfill Disposal	Total Waste
2010	10,516	3,201	N/A	N/A	N/A	18,295	32,642
2015	10,636	3,201	N/A	N/A	N/A	18,701	32,538
2020	10,767	3,201	N/A	N/A	N/A	18,215	32,211
2025	10,906	3,201	N/A	N/A	N/A	17,689	31,796

**Table VI-9**

**Implementation Schedule**

Reference page #	Program Activity	Location Service area	Start Date Ending Date	Goal
<b>Recycling Center, 1135 N. Washington St, Van Wert</b>				
4, 11, 16, 17, 20, 30, 33	Appliance drop-off	All District	Existing/ongoing	Goal 1
4, 30	Drop and swap gently used items	All District	Existing/ongoing	Goal 1
4, 11, 30	Used book collection	All District	Existing/ongoing	Goal 1
4, 11, 30	Vinyl siding collection	All District	Existing/ongoing	Goal 1
<b>Recycling Center Drive-Through Drop-off, PT, Urban</b>				
4, 10, 30, 48	Drive-through	All District	Existing/ongoing	Goal 1
<b>Recycling Collection Curbside, weekly non-subscription</b>				
5, 6, 16, 29, 48	Curbside recycling	Convoy	1993, ongoing	Goal 1
		Elgin	1993, ongoing	Goal 1
		Wren	1993, ongoing	Goal 1
		Middle Point	1993, ongoing	Goal 1
		Ohio City	1993, ongoing	Goal 1
		Venedocia	1993, ongoing	Goal 1
		Van Wert	1993, ongoing	Goal 1
		Willshire	1993, ongoing	Goal 1
		Wren	1993, ongoing	Goal 1
33	Single Stream Collection Evaluation	Collection system evaluation	2011-2012	Goal 1
<b>Recycling Collection Drop-off, PT, Rural</b>				
5, 10, 16, 29	Rural Township House	Harrison,	1994, ongoing	Goal 1
		Hoaglin	1994, ongoing	Goal 1
		Jackson	1994, ongoing	Goal 1
		Jennings	1994, ongoing	Goal 1
		Liberty	1994, ongoing	Goal 1
		Ridge	1994, ongoing	Goal 1
		Tully	1994, ongoing	Goal 1
		Union	1994, ongoing	Goal 1
		Willshire	1994, ongoing	Goal 1
		York	1994, ongoing	Goal 1
33	Township location merger evaluations	Improvement Evaluation	2010-2012	Goal 1

**Table VI-9 Continued**

Ref page #	Program Activity	Service area	Start Date Ending Date	Goal
<b>Community Clean-up Collection in individual Villages</b>				
16, 29	Community clean-up events	Convoy, Ohio City, and Wilshire, other	Existing, ongoing	Goal 2
<b>Recycling Collection Schools</b>				
4, 5, 6, 29	Recycling collection using roll-off bins, Other	All Crestview, Delphos Jefferson, Marsh, Lincolnview, Vantage, St Mary's, Van Wert City	Existing, ongoing	Goal 2
<b>Recycling Collection Commercial</b>				
4, 5, 17, 30	Commercial collection expansion	All District	Existing/ongoing	Goal 2
33	Collection equipment expansion and upgrades	All District	Availability of local and grant funding. Ongoing	Goal 2
<b>Recycling Collection Industrial</b>				
4, 6, 17, 30	Industrial Collection expansion	All District	Existing/ongoing	Goal 2
3, 33	Industrial drop-off MRF	All District	Existing/ongoing	Goal 2
4, 33	Collection equipment expansion and upgrades	All District	Availability of local and grant funding. Ongoing	Goal 2
<b>Education Awareness</b>				
3, 4, 18, 31	Recycling Center Tours	All District	Existing/ongoing	Goals 3, 4
19, 31	Com/Ind consulting	All District	Existing/ongoing	Goals 3, 4
19, 31	Institutional consulting	All District	Existing/ongoing	Goals 3, 4
19, 32	Earth Day Open House Celebration	Recycling Center All District	Existing/ongoing	Goals 3, 4
19, 32	Not Just Cows and Plows day	Fair grounds All District	Existing/ongoing	Goals 3, 4
19, 32	Community Parades	All District	Existing/ongoing	Goal 4
19, 32	School/Civic Event Presentations	All District	Existing/ongoing	Goals 3, 4
19	News Media	All District	Existing/ongoing	Goals 3, 4
19, 32	Full page ads	All District	Ongoing based on \$\$	Goals 3, 4
19, 32	Distribution of Printed Material	All District	Existing/ongoing	Goals 3, 4
19	Banner in web paper	All District	Existing/ongoing	Goals 3, 4
32	Web page	All District	Existing/ongoing	Goals 3, 4
32	Radio spots	All District	Existing/ongoing	Goals 3, 4
32	News Releases	All District	Existing/ongoing	Goals 3, 4
33	Expand info/education	All District	Existing/ongoing	Goals 3, 4
32	Com/Ind focus article in newsletters	All District	Existing/ongoing	Goals 3, 4
33	One on one contacts	All District	Availability of local and grant funding. Ongoing	Goals 2, 3, 4



**Table VI-9 Continued**

Reference page #	Program Activity	Location Service area	Start Date Ending Date	Goal
<b>Restricted Waste Streams, Residential, Recycling Center drop-off, 1135 N. Washington St, Van Wert</b>				
3, 18, 20, 33	HHW Collection activities	Recycling Center All District	Not scheduled-optional based on funding	Goal 5
18, 20	Used tire collection	Recycling Center All District	Existing/ongoing	Goal 5
18, 49	Used motor and hydraulic oil collection	Recycling Center All District	Existing/ongoing	Goal 5
18, 20, 30	E-waste, television collection	Recycling Center All District	Existing/ongoing	Goal 5
18, 30	Wet cell battery collection	Recycling Center All District	Existing/ongoing	Goal 5
18, 30	Florescent tube light collection	Recycling Center All District	2008 ongoing	Goal 5
18	HHW Hotline assistance	Recycling Center All District	Existing/ongoing	Goal 3, 4, 5
18, 19	HHW Awareness/Education	Recycling Center All District	Existing/ongoing	Goal 3, 4, 5
<b>Material Recovery Facility (MRF) at the Recycling Center, 1135 N. Washington St, Van Wert</b>				
30, 33	MRF single stream processing evaluation	All District	2011-2012	Goal 1
4, 15	Expand list of processed materials	All District	Existing/ongoing	Goal 1
33	Improve facility layout and traffic flow	All District	Existing/ongoing	Goal 1
<b>Composting Facility</b>				
5, 11,17, 30, 33	Class IV Composting Facility	All District	Existing/ongoing	Goal 1
<b>Other Programs</b>				
3, 33	Grant Application	Recycling Center Administration	Existing/ongoing	Goal 1
4, 33	Data management system improvements	Recycling Center Administration	2010-2012	
32,	Strategic planning SWOT analysis, surveys	Recycling Center Administration Res/Com/Ind	Existing/ongoing	
18, 31, 52	Intergovernmental contract collection	Currently Allen &, Putnam counties	Existing/ongoing	Goal 1

**G. Approval of Plans and Specifications and Application of Siting Strategy to Proposed Facilities**

**1. Purpose and Objective**

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

All proposed Solid Waste Facilities, whether to be sited by or on behalf of the District, or by or on behalf of any person, municipal corporation, township or other political subdivision, shall comply with the rules of the District and shall be subject to the following Siting Strategy unless granted an exemption or waiver from this requirement by the BOARD.

**For the purposes of this section, the following definitions shall apply:**

- a. **Solid Waste Facilities** shall mean all solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities.
- b. **Siting Strategy** shall mean the process by which the BOARD will review proposals for construction of any Solid Waste Facility and determine whether such proposal complies with the Plan.
- c. **General Plans and Specifications** shall mean that information required to be submitted to the BOARD for review for the construction of any proposed Solid Waste Facility and includes, but is not limited to, a site plan for the proposed facility, architectural drawings or artists renderings of the proposed facility, the projected size and capacity of the proposed facility.
- d. **Applicant** shall mean a person, municipal corporation, township or other political subdivision proposing to construct a Solid Waste Facility within the District.
- e. **Modify** shall mean a significant change in the type or manner of operation at an existing Solid Waste Facility.

**2. District Rule**

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

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

**3. Siting Strategy**

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

**STEP 1: Submittal of Plans and Specifications**

Any person, municipal corporation, township or other political subdivision proposing to construct a new Solid Waste Facility or modify an existing Solid Waste Facility within the District shall:

- a. Provide General Plans and Specifications of the proposed facility to the BOARD. Such General Plans and Specifications shall include, but may not be limited to, the following documents and information:
  - i. the site plan for the proposed Solid Waste Facility;
  - ii. architectural drawings or artists renderings of the proposed Solid Waste Facility;
  - iii. availability of necessary utilities;
  - iv. projected size and capacity of the proposed Solid Waste Facility;
  - v. hours of operation;
  - vi. anticipated source of solid waste or recyclable materials. If recycling activities will be conducted at the proposed facility, a detailed description of the recycling activity including materials to be recycled, technology to be utilized and anticipated percentage of waste reduction must be submitted;
  - vii. types and anticipated number of vehicles utilizing the proposed Solid Waste facility;
  - viii. routes to be used by vehicles utilizing facility and methods of ingress and egress; and
  - ix. any other information necessary for the BOARD to evaluate whether the proposed Solid Waste Facility complies with each of the criteria listed below.
- b. Adequately demonstrate to the BOARD that the construction or modification and operation of the proposed Solid Waste Facility:
  - i. is consistent with the goals, objectives, projections and strategies contained in the Plan;
  - ii. will not adversely affect financing for the implementation of the Plan;
  - iii. will not adversely affect the BOARD's obligation to provide for the maximum feasible utilization of existing facilities;
  - iv. will be installed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the area;
  - v. will be adequately served by essential public facilities and services;

- vi. will not create excessive additional requirements at public cost for public facilities or services;
  - vii. will not be detrimental to the economic welfare of the community;
  - viii. will not involve the excessive production of traffic, noise, smoke, fumes or odors;
  - ix. will have vehicular approaches to the property that are designed not to create an interference with traffic;
  - x. will not result in the destruction, loss or damage of a natural, scenic, or historic feature of major importance; and
  - xi. will not adversely affect property values within the surrounding community.
- c. The Applicant shall submit any additional information as BOARD requests to establish to the reasonable satisfaction of BOARD, that the construction or modification and operation of the proposed Solid Waste Facility will comply with the above standards.

**STEP 2: BOARD Review**

The BOARD shall conduct a review of the information submitted for the proposed Solid Waste Facility to determine whether the Applicant has adequately demonstrated that the proposed Solid Waste Facility will be constructed or modified and operated in compliance with the standards established above. The BOARD may expend District funds to employ a consultant or consultants familiar with Solid Waste Facility construction and operation, land use planning and solid waste planning to assist the BOARD in implementing this Siting Strategy and in its determination of whether a proposed Solid Waste Facility complies with the Plan.

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

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

**STEP 3: Development Agreement**

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

**5. Waiver**

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

## VII. Measurement of Progress Toward Waste Reduction Goals

[ORC Section 3734.53 (A)]

### A. District Compliance Goal(S)

The District is currently in compliance with Goal #1 of the State Solid Waste Management Plan (1995). This goal requires that recycling opportunity for at least seven of eleven materials are available to 90 percent of the District population and that each sector of waste generators has access to at least four of eleven possible materials identified in **Table VII-1**.

The District is served by many small local and large corporate trash collection service providers. The collection service includes the use of trash cans, bags and other containers. The diversity in service providers and types of service offered has made pay-as-you-through programs an unfavorable option for the District. The District PC has discussed other financial incentives for recycling as well but does not consider the benefit to be worth the cost and potential negative public perception.

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

Eleven Material Highly Amendable to Recycling	Four Material Designated to Residential Sector	Four Material Designated to Comm/Institutional Sector	Number of Times Material is Designated
Corrugated Cardboard		X	1
Office Paper		X	1
Newspaper	X		1
Glass Containers	X		1
Steel Containers		X	1
Aluminum Containers	X		1
Plastic Containers	X		1
Wood Packaging/pallets		X	1
Lead Acid Batteries			
Major Appliances			
Yard Waste			
Totals	4	4	8

Note: Material designation into residential or commercial/institutional sectors for compliance purpose only. Individual sector recycling access is not limited by type of material.

#### 1. Residential/Commercial Access

Recycling access is provided through rural and urban part-time drop-offs and non-subscription curbside recycling service. The District provides weekly curbside recycling for eight cities/villages and regularly scheduled, call as needed and special event, collection service to community groups, religious, government, and other nonprofit organizations. The District provides recycling collection services to all the school systems located within the District. Eleven of the twelve Townships located within the District participate in the SWMD rural drop-off recycling activities.

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

Program	Reference Year (2008)	
	Population	Population with Access
<b>Non-subscription Curbside</b>		
Convoy Village	1,050	1,050
Elgin Village	48	48
Middle Point Village	564	564
Ohio City Village	759	759
Van Wert City	10,211	10,211
Venedocia Village	149	149
Willshire Village	438	438
Wren Village	197	197
<i>Subtotal</i>	<i>13,416</i>	<i>13,416</i>
<b>Subscription Curbside</b>		
None		
<b>Part-time Drop-offs (urban area)</b>		
Pleasant Township (at MRF)	10,592	2,500
<b>Part-time Drop-offs (rural area)</b>		
Harrison Township	1,060	2,500
Hoaglin Township	651	2,500
Jackson Township	492	2,500
Jennings Township	687	2,500
Liberty Township	1,623	2,500
Ridge Township	3,058	2,500
Tully Township	2,060	2,500
Union Township	830	2,500
Willshire Township	2,166	2,500
York Township	753	2,500
<i>Subtotal</i>	<i>13,380</i>	<i>27,500</i>
<b>Service Area Population</b>	<i>/1(26,211)</i>	<b>25,654</b>
<b>Population with Access (number)</b>		<b>40,916</b>
Population with Access (%)		<i>/1(156%)</i> 159%
<b>Access Percentage</b>		<b>&gt;100%</b>

/1 Please note: The populations provided in Table VII-2 were updated by the Ohio EPA (25,654) and vary slightly from the populations used by the District (26,211) in the original Draft Plan calculations. The service area population used by the District to prepare the Plan reduces the Population with Access to 156%. The District assumes the difference is not significant to the overall planning process and therefore Table VII-2 has not been altered to reflect the District population access estimates.

All District residential recycling collection programs include: ONP, OCC, PBD, OFF, MXP, MAG, PHBK, OPA, Books, GL, ALC, AF, STCS, PETM, HDPE (rigid or film), PVC and LDPE (rigid or film), PS. A drive-through recycling drop-off located at the District Recycling Center provides recycling opportunities for residential/commercial and industrial segments of the District. The expanded services at the drive through include wet cell battery, appliance, ferrous and nonferrous metal, e-waste, motor oil and tire recycling. The drive through recycling drop-off is located at the District recycling center in Pleasant township.

There are three salvage yards located within the District: Century Trading Company, Van Wert Auto Salvage and Ohio City Auto Salvage. Five other scrap yards: Kohart Surplus and Salvage of Paulding, OH and Omni Source, with locations in Fort Wayne, IN and St Mary's, Lima and Defiance, OH are also within a reasonable driving distance of the District.

City Waste Paper provides commercial and industrial OCC bale collection and a publicly available OCC drop-off location. City waste paper is the principal commercial OCC hauler/broker in the District. Maharg Inc. provided

commercial OCC collection service in conjunction with trash collection. Some of the local commercial units (examples: Wal-mart, Odd Lots) recycle waste they produce through a parent company.

## 2. Industrial Access

The District provides recycling collection services to industrial/commercial units located within the District. The District collects ONP, OCC, PBD, SOP, MXP, MAG, PHBK, OPA, Books, GL, ALC, AF, STCS, ABS, PETM, PS, Plastic film, HDPM, and LDPE.

The Recycling Center drive-through and MRF drop-off provide recycling opportunities for industrial recycling District. The expanded drive-through services include wet cell battery, appliances, ferrous and nonferrous metal, e-waste, florescent bulbs, plastic films, ABS & PS plastic, bulk plastics, used oil and tires.

There are three salvage yards located within the District: Century Trading Company, Van Wert Auto Salvage and Ohio City Auto Salvage. Five other scrap yard: Kohart Surplus and Salvage of Paulding, OH and Omni Source, with locations in Fort Wayne, IN and St Mary's, Lima and Defiance, OH are also within a reasonable driving distance of the District. Traveling & Recycle Wood Products accepts pallets and reusable wood pallet scrap for recycling. City Waste Paper provides industrial OCC collection.

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

Year	Waste Recycled	District Adjusted Population	Yard Waste Composted	Incinerated	Landfilled	Total Reduction	Waste Reduction Rate as a % (WWR)	Reduction in Pounds-Per-Person-Per-Day
2008	2,127	26,211	3,201	N/A	14,449	5,328	26.94%	1.11
2010	2,151	26,081	3,201	N/A	14,449	5,352	27.03%	1.12
2011	2,175	26,047	3,201	N/A	14,399	5,376	27.19%	1.13
2012	2,198	26,014	3,201	N/A	14,351	5,399	27.34%	1.14
2013	2,223	25,979	3,201	N/A	14,299	5,424	27.50%	1.14
2014	2,248	25,945	3,201	N/A	14,248	5,449	27.66%	1.15
2015	2,271	25,910	3,201	N/A	14,199	5,472	27.82%	1.16
2016	2,297	25,881	3,201	N/A	14,151	5,498	27.98%	1.16
2017	2,325	25,852	3,201	N/A	14,101	5,526	28.16%	1.17
2018	2,350	25,824	3,201	N/A	14,055	5,551	28.31%	1.18
2019	2,377	25,795	3,201	N/A	14,005	5,578	28.48%	1.18
2020	2,402	25,766	3,201	N/A	13,959	5,603	28.64%	1.19
2021	2,430	25,706	3,201	N/A	13,885	5,631	28.85%	1.20
2022	2,457	25,648	3,201	N/A	13,814	5,658	29.06%	1.21
2023	2,486	25,588	3,201	N/A	13,739	5,687	29.28%	1.22
2024	2,514	25,530	3,201	N/A	13,667	5,715	29.49%	1.23
2025	2,541	25,469	3,201	N/A	13,594	5,742	29.70%	1.24
2026	2,565	25,386	3,201	N/A	13,507	5,766	29.92%	1.24
2027	2,590	25,303	3,201	N/A	13,419	5,791	30.15%	1.25

WWR = Waste recycled / (Waste recycled + Landfilled)

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

Year	Waste Recycled	District Adjusted Population	Composted	Incinerated	Landfilled	Total Reduction	Waste Reduction Rate as a % (WWR)	Reduction in Pounds-Per-Person-Per-Day
2008	8,365	26,211	N/A	N/A	4,502	8,365	65.01%	1.75
2010	8,365	26,081	N/A	N/A	4,502	8,365	65.01%	1.76
2011	8,365	26,047	N/A	N/A	4,502	8,365	65.01%	1.76
2012	8,365	26,014	N/A	N/A	4,502	8,365	65.01%	1.76
2013	8,365	25,979	N/A	N/A	4,502	8,365	65.01%	1.76
2014	8,365	25,945	N/A	N/A	4,502	8,365	65.01%	1.77
2015	8,365	25,910	N/A	N/A	4,502	8,365	65.01%	1.77
2016	8,365	25,881	N/A	N/A	4,458	8,365	65.23%	1.77
2017	8,365	25,852	N/A	N/A	4,415	8,365	65.45%	1.77
2018	8,365	25,824	N/A	N/A	4,371	8,365	65.68%	1.77
2019	8,365	25,795	N/A	N/A	4,327	8,365	65.91%	1.78
2020	8,365	25,766	N/A	N/A	4,284	8,365	66.13%	1.78
2021	8,365	25,706	N/A	N/A	4,240	8,365	66.36%	1.78
2022	8,365	25,648	N/A	N/A	4,196	8,365	66.60%	1.79
2023	8,365	25,588	N/A	N/A	4,152	8,365	66.83%	1.79
2024	8,365	25,530	N/A	N/A	4,109	8,365	67.06%	1.80
2025	8,365	25,469	N/A	N/A	4,065	8,365	67.30%	1.80
2026	8,365	25,386	N/A	N/A	4,021	8,365	67.54%	1.81
2027	8,365	25,303	N/A	N/A	3,978	8,365	67.77%	1.81

Although source reduction is expected to occur, no sound data is available to forecast tonnage, therefore it is not included in this table. WWR = Waste recycled / (Waste recycled + Landfilled)

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

Year	Waste Recycled	District Adjusted Population	Yard Waste Composted	Incinerated	Landfilled	Total Reduction	Waste Reduction Rate as a % (WWR)	Reduction in Pounds-Per-Person-Per-Day
2008	10,492	26,211	3,201	N/A	18,951	13,693	41.95%	2.86
2010	10,516	26,081	3,201	N/A	18,951	13,717	41.99%	2.88
2011	10,540	26,047	3,201	N/A	18,901	13,741	42.10%	2.89
2012	10,563	26,014	3,201	N/A	18,853	13,764	42.20%	2.90
2013	10,588	25,979	3,201	N/A	18,801	13,789	42.31%	2.91
2014	10,613	25,945	3,201	N/A	18,750	13,814	42.42%	2.92
2015	10,636	25,910	3,201	N/A	18,701	13,837	42.53%	2.93
2016	10,662	25,881	3,201	N/A	18,609	13,863	42.69%	2.94
2017	10,690	25,852	3,201	N/A	18,516	13,891	42.86%	2.94
2018	10,715	25,824	3,201	N/A	18,426	13,916	43.03%	2.95
2019	10,742	25,795	3,201	N/A	18,332	13,943	43.20%	2.96
2020	10,767	25,766	3,201	N/A	18,243	13,968	43.36%	2.97
2021	10,795	25,706	3,201	N/A	18,125	13,996	43.57%	2.98
2022	10,822	25,648	3,201	N/A	18,010	14,023	43.78%	3.00
2023	10,851	25,588	3,201	N/A	17,891	14,052	43.99%	3.01
2024	10,879	25,530	3,201	N/A	17,776	14,080	44.20%	3.02
2025	10,906	25,469	3,201	N/A	17,659	14,107	44.41%	3.04
2026	10,930	25,386	3,201	N/A	17,528	14,131	44.64%	3.05
2027	10,955	25303	3201	N/A	17,397	14,156	44.86%	3.07

### 3. Education/Information

Although the District does not have a designated E/I staff it does have equipment and facilities that offer E/I opportunities to all facets of the communities served by the District. The District intends to continue the existing educational activities throughout the planning period. See section IV for greater detail on the following information/education activities and section V for planned program expansion.



## **VIII. Cost and Financing of Plan Implementation**

[ORC Section 3734.53(A)(9),(12) and (B)]

### **A. Funding Mechanisms and Amounts of Money Generated**

Funding for District programs is provided through a two tier improved parcel assessment, a waste designation fee on all solid waste generated in the District, revenue from the recycling sales and services, and grants from the ODNR, donations, and other sources. All District revenues, unless specifically addressed herein, shall be expended by the Board or Policy Committee in accordance with the District's solid waste management plan or amended plan approved under section 3734.521, 3734.55, or 3734.56 of the Revised Code. The District will consider reducing fees that place a burden on residents and businesses when revenues from other sources are deemed adequate for funding the execution of the Plan.

#### **1. Funding Mechanisms Currently Available**

##### **Property Tax**

Under Ohio Revised Code (ORC) 343.08 the District has affixed a reasonable rate to be paid by every household within the District in order to implement the SWMD plan. One (\$1.00) of each assessment is retained by the Board as a reimbursement for Board administrative expenses associated with the collection and dispersement of District funds. The current assessment is six dollars (\$6.00) annually for households located in rural areas with monthly township drop-off access and twenty-eight dollars and sixty cents (\$28.60) for households receiving weekly curbside recycling service. Both assessments are included in the properties annual tax statement. It is presently assumed that the assessment rates will remain unchanged throughout the planning period. In 2008 the fee totaled \$194,573. In 2010 the fee totaled 198,579. For planning purposes the District will use the fee amount from 2010 throughout the planning period. The District may adjust the fee only if deemed necessary to fulfill the obligations of the Plan.

##### **Waste Designation Fees**

On April 20, 1999, the District began a "flow control" program by designating seven facilities, per ORC 343.014, as the only facilities in the United States authorized to accept solid waste generated in the District. The five year contract with the designated facilities includes the collection of a five dollar and thirty cent (\$5.30) per-ton fee on waste generated in the District. A new designation RFP was issued for the contract period May 5, 2009, through May 5, 2014. Of the seven facilities designated one is located in Indiana while the others are located in Ohio. Historic designation fee amounts are based on actual fees received not on tons of waste disposed of.

The fee, directly correlated to waste tonnage, is scheduled to increase fifty cents (\$.50) per-ton in 2014 and again in 2019. The District may adjust the fee only if deemed necessary to fulfill the obligations of the Plan.

**Table VIII-1** has been modified to illustrate the projected designation fee revenue during the planning period. A copy of a designation contract is located in the appendix. Using data from monthly fee reports from designated waste facilities the District has estimated that fees for 19,074 tons of waste were collected by District in 2008. Designation fees decreased with the economic slowdown but are expected to recover to the 2012 planning estimate.

## **Recycling**

The District receives revenue from the sales of recyclables processed at the District MRF. Recycling markets are subject to dramatic demand and price swings making revenue forecasting difficult at best. The District also enters into contract with private and public entities to collect and/or process materials. These contracts increase sales revenue for the duration of that contract. Historically, the District has seen an increase in recycling revenue each of the years since the development of the MRF. From 2003 through 2008 the recycling sales revenue grew \$225,542 or thirteen percent annually. However in 2009 the recycling sales revenue dropped forty-four percent due to the 2008 fall in recycling material. The recycling material values recovered in mid to late 2009. In Contrast to the falling markets the District's 2011 recycling sales revenue was \$339,791. For planning purposes the District is applying a conservative annual recycling sales revenue growth rate of five percent throughout the planning period. The District assumes the continuing expansion of the number of materials collected and sold, collection programs, out of District collection/processing services provided and pricing increases will all contribute to the increased sales revenue. In 2011 the District added three revenue generating materials to its recovery stream.

### **Recycling Collection Service Fees**

The District provides a recycling drop-off collection and processing service for Putnam and Allen Counties. A contractual fee is paid to the District for the service. The intergovernmental contract service fees associated with the Allen and Putnam County drop-off collection and processing services should remain fairly constant throughout the planning period. A periodic adjustment may be made to allow for inflationary pressure. For planning purposes the District will use \$41,500 representing the forecasted 2010 combined collection, processing and compost facility service fees. For annual reporting purposes the District considers these fees as recycling revenue. The District will consider other out of District opportunities, not currently available, to provide collection and processing services. These services provide cost effective solutions to neighboring Solid Waste District's waste reduction challenges as well as a revenue source for Plan implementation for the District.

### **Recycling Processing Service Fees**

Recycling service fees are processing fees applied to televisions and monitors with cathode ray tubes and tires. For annual reporting purposes the District considers these fees as recycling revenue.

### **Compost Facility Service Fees**

The District charges loading fees for wood mulch and compost products created through the processing of herbaceous and woody vegetation. The fees are based on processing cost. Currently there is a twenty dollar (\$20) per scoop (1.25 CY) fee for Double ground mulch and screened compost and a ten dollar (\$10) per scoop fee for single ground mulch and unscreened compost. There is also a \$10 or \$25, dependent on the size of vehicle, fee applied to commercial tree trimmers. For annual reporting purposes the District considers these fees as recycling revenue.

## **Grants**

The District has been successful in executing a total of 18 grant funded projects, exceeding \$1,100,000 in value, during the years 1995-2010. Grant dollars are not typically accepted as a reliable long-term funding source. However, it is assumed that the District will continue to partner with the Ohio Department of Natural Resources, Division of Recycling and Litter Prevention, to invest in program growth and improvement through the Community Development and Market Development grant programs. Grant dollars are not included in Table VIII-2 but will be used to the greatest extent possible as long as they are available to fund capital investments. The District will invest grant dollars in the purchase of recycling collection vehicles, trailers, roll-off bins, MRF and other equipment and site improvement purchases. The

District will pursue other grant funding whenever said funding opportunities become available and meet the Plan objectives.

**Other**

Other revenue may include reimbursements, legal settlements, miscellaneous equipment sales and miscellaneous contract services (pop machines etc). Due to the composition of other revenue the District considers it contractual in nature for annual district reporting purposes. For planning purposes the District will use \$1,000 for other revenue.

**Table VIII-1 Designation Fee Schedule and Revenue**

Year	Tons-Per-Year-Disposed	Per-Ton-Fee	Total Designation Fee
2008	19,074	5.30	101,092
2010	18,925	5.30	100,303
2011	18,876	5.30	100,043
2012	18,813	5.30	99,709
2013	18,810	5.30	99,693
2014	18,750	5.80	108,750
2015	18,701	5.80	108,446
2016	18,609	5.80	107,932
2017	18,516	5.80	107,393
2018	18,426	5.80	106,871
2019	18,332	6.30	115,492
2020	18,215	6.30	114,755
2021	18,125	6.30	114,188
2022	18,010	6.30	113,463
2023	17,891	6.30	112,713
2024	17,776	6.30	111,989
2025	17,659	6.30	111,441
2026	17,528	6.30	110,426
2027	17,397	6.30	109,601

1/ 2008 disposal and revenue from district records from solid waste fee submittal forms received from designated facilities.

## 2. Summary of District Revenues

**Table VIII-2** includes all funding mechanisms used and the estimated total amount of revenue generated by each mechanism for each year of the planning period. The diverse ranges of funding sources should provide adequate funding to accomplish the Plan objectives as described herein.

**Table VIII-2 Summary of Revenue Generated and Mechanisms Used**

Year	Type of Revenue Mechanisms and Amount Generated						
	Assessment	Designation fees	Recycling revenue	Service Fees	Grants	Other	Total
2008	194,573	105,882	301,981	33,000	Not used for planning	6,098	641,534
2010	198,579	100,303	250,000	41,000	Not used for planning	1,000	590,882
2011	198,579	81,982	339,791	41,000	Not used for planning	1,000	662,352
2012	198,579	99,709	283,184	41,000	Not used for planning	1,000	623,472
2013	198,579	99,693	297,343	41,000	Not used for planning	1,000	637,615
2014	198,579	108,750	312,210	41,000	Not used for planning	1,000	661,539
2015	198,579	108,446	327,821	41,000	Not used for planning	1,000	676,846
2016	198,579	107,932	344,212	41,000	Not used for planning	1,000	692,723
2017	198,579	107,393	361,423	41,000	Not used for planning	1,000	709,395
2018	198,579	106,871	379,494	41,000	Not used for planning	1,000	726,944
2019	198,579	115,492	398,468	41,000	Not used for planning	1,000	754,539
2020	198,579	114,755	418,392	41,000	Not used for planning	1,000	773,726
2021	198,579	114,188	439,311	41,000	Not used for planning	1,000	794,078
2022	198,579	113,463	461,277	41,000	Not used for planning	1,000	815,319
2023	198,579	112,713	484,341	41,000	Not used for planning	1,000	837,633
2024	198,579	111,989	508,558	41,000	Not used for planning	1,000	861,126
2025	198,579	111,441	533,986	41,000	Not used for planning	1,000	886,006
2026	198,579	110,426	560,685	41,000	Not used for planning	1,000	911,690
2027	198,579	109,601	588,719	41,000	Not used for planning	1,000	938,899

2011 designated facility revenue includes has an estimated \$8,000 in delinquent fee payment.

**TABLE VIII-3 Existing and Anticipated Loans Secured by the District**

Year	Institution	Amount	Interest Rate	Loan Length	Annual Dept Service
2003	US Bank	100,000	1.80 %	20 years	6,730
2010 status	US Bank	70,000	2.20%	13 years	6,540

The loan was acquired to fund the MRF expansion project.

**TABLE VIII-4 Revenues and Allocations in Accordance with ORC 3734.57, 3734.572 & 3734.573**

Plan Year	Total Revenue	Allocations of ORC 3743.57 and 3734.573 Revenue for the Following Purposes:				
		1	2	3, 4, 5, 6, 7, 8, 9	Total Expenditures	Cumulative Balance
2011	662,352	14,360	560,221	00	574,581	207,541
2012	623,472	14,504	583,970	00	598,474	232,539
2013	637,615	15,084	594,242	00	609,326	260,828
2014	661,539	15,235	604,573	00	619,808	302,559
2015	676,846	15,387	715,702	00	731,089	248,316
2016	692,723	15,541	626,195	00	641,736	299,303
2017	709,395	15,697	636,945	00	652,642	356,056
2018	726,944	15,853	647,943	00	663,796	430,358
2019	754,539	16,012	759,188	00	755,200	429,697
2020	773,726	16,172	670,677	00	686,849	516,574
2021	794,078	16,334	682,408	00	698,742	611,910
2022	815,319	16,497	694,383	00	1,210,880	216,349
2023	837,633	16,662	706,601	00	723,263	330,719
2024	861,126	16,829	714,066	00	730,895	460,950
2025	886,006	16,997	726,890	00	743,887	603,069
2026	911,690	17,167	739,965	00	757,132	757,627
2027	938,899	17,338	853,296	00	870,634	825,892

In **Table VIII-4** the 2011 Commulative Balance actual balance as of 12/31/11, not estimated. All the Districts expenditures are allocated in "1" Preparing and monitoring of plan implementation and "2" Implementation of approved plan.

### B. Costs of Plan Implementation

All the Districts expenditures in **TABLE VIII-5** are allocated in "1" Preparing and monitoring of plan implementation and "2" implementation of approved plan in accordance with ORC 3734.57, 3734.572 & 3734.573. All District revenues, unless specifically addressed herein, shall be expended by the Board or Policy Committee in accordance with the District's solid waste management plan or amended plan approved under section 3734.521, 3734.55, or 3734.56 of the Revised Code exclusively for the following purposes:

(1) Preparation of the solid waste management plan of the district under section 3734.54 of the Revised Code, monitoring implementation of the plan, and conducting the periodic review and amendment of the plan required by section 3734.56 of the Revised Code by the solid waste management policy committee;

(2) Implementation of the approved solid waste management plan or amended plan of the district, including, without limitation, the development and implementation of solid waste recycling or reduction programs;

The District has not and does not foresee the expenditure of funds for the remaining items (3) through (9):

**Table VIII-5 Summary of District Expenditures**

Expense Category	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>Plan Prep/Monitoring</b> Total Allocation 1	14,360	14,504	15,084	15,235	15,387	15,541	15,697	15,853	16,012
<b>Plan Implementation</b> Total Allocation 2	560,221	583,970	594,242	604,573	715,702	626,195	636,945	647,943	759,188
Debt Payment Subtotal	6,430	6,320	6,210	6,100	5,990	5,880	5,770	5,660	5,550
Administration Subtotal	61,554	62,785	64,041	65,322	66,628	67,294	67,968	68,647	69,334
Facility Operation Subtotal	241,014	244,777	248,742	252,637	257,200	261,659	266,258	270,988	275,843
Grant/Match Facility Operation	Not included	Not included	Not included	Not included	Not included	Not included	Not included	Not included	Not included
MRF Facility Operation	168,500	171,870	175,307	178,814	182,390	186,038	189,758	193,554	197,424
Compost Facility Facility Operation	39,763	40,161	40,562	40,968	41,378	41,791	42,209	42,631	43,058
Recycling Center Facility Operation	27,201	27,745	28,300	28,866	29,443	30,032	30,633	31,245	31,870
Tire Collection Facility Operation	2,550	2,601	2,653	2,706	2,760	2,815	2,872	2,929	2,988
E-waste Facility Operation	3,000	2,400	1,920	1,536	1,229	983	786	629	503
Recycling Collection Subtotal	243,223	258,088	263,249	268,514	373,884	279,362	284,949	290,648	396,461
Recycling Curbside Recycling Collection	180,936	184,555	188,246	192,011	295,851 1/ 100,000	199,768	203,763	207,839	311,995 1/ 100,000
Recycling Drop-off Recycling Collection	52,287	53,333	54,399	55,487	56,597	57,729	58,884	60,061	61,263
Com/Ind/Inst Collection Recycling Collection	10,000	20,200 2/ 10,000	20,604	21,016	21,436	21,865	22,302	22,748	23,203
Education/Information Subtotal	8,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Education Events Education/Information	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Education Contract Education/Information	1,200	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Education Staff/Other Education/Information	4,800	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
<b>Total All Expenditures</b> Total Allocations 1 + 2	574,581	598,474	609,326	619,808	731,089	641,736	652,642	663,796	755,200

1/ For forecasting purposes the District included the purchase of a new or late model curbside recycling truck (\$100,000) in 2015, 2019 and 2027. 2/ The District anticipates investing in additional and replacement Com/Ind/Inst collection equipment including roll-offs bins, collection trucks and other containers for recycling collection. For planning purposes \$10,000 is added to the 2012 Com/Ind/Inst collection and thereafter, over the course of the Plan, incorporated into that expenditure.

**Table VIII-5 Summary of District Expenditures Continued**

Expense Category	2020	2021	2022	2023	2024	2025	2026	2027
<b>Plan Prep/Monitoring</b> Total Allocation 1	16,172	16,334	16,497	16,662	16,829	16,997	17,167	17,338
<b>Plan Implementation</b> Total Allocation 2	670,677	682,408	1,194,383	706,601	714,066	726,890	739,965	853,296
Debt Payment Subtotal	5,440	5,330	5,220	5,110	00	00	00	00
Administration Subtotal	70,027	70,727	71,435	72,149	72,871	73,599	74,335	75,079
Facility Operation Subtotal	280,819	285,912	791,121 3/ 500,000	296,442	301,878	307,427	313,090	318,865
Grant/Match Facility Operation	Not included	Not included	Not included	Not included	Not included	Not included	Not included	Not included
MRF Facility Operation	201,373	205,401	709,509	213,699	217,973	222,332	226,779	231,314
Compost Facility Facility Operation	43,488	43,923	44,362	44,806	45,254	45,707	46,164	46,625
Recycling Center Facility Operation	32,508	33,158	33,821	34,497	35,187	35,891	36,609	37,341
Tire Collection Facility Operation	3,047	3,108	3,171	3,234	3,299	3,365	3,432	3,501
E-waste Facility Operation	403	322	258	206	165	132	106	84
Recycling Collection Subtotal	302,391	308,439	314,607	320,900	327,317	338,864	340,540	447,352
Recycling Curbside Recycling Collection	216,235	220,560	224,971	229,471	234,060	238,741	243,516	348,386 1/ 100,000
Recycling Drop-off Recycling Collection	62,488	63,738	65,012	66,313	67,639	68,992	70,371	71,779
Com/Ind/Inst Collection Recycling Collection	23,668	24,141	24,624	25,116	25,618	26,131	26,653	27,187
Education/Information Subtotal	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Education Events Education/Information	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Education Contract Education/Information	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Education Staff/Other Education/Information	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
<b>Total All Expenditures</b> Total Allocations 1 + 2	686,849	698,742	1,210,880	723,263	730,895	743,887	757,132	870,634

1/ For forecasting purposes the District included the purchase of a new or late model curbside recycling truck (\$100,000) in 2015, 2019 and 2027. 2/ The District anticipates investing in additional and replacement Com/Ind/Inst collection equipment including roll-offs bins, collection trucks and other containers for recycling collection. For planning purposes \$10,000 is added to the 2012 Com/Ind/Inst Collection and thereafter, over the course of the Plan, incorporated into that expenditure. 3/ The District will research developing the existing two-stream MRF into single stream MRF prior to the next Plan update in 2017. Although there is no definite commitment to allocate the funds to develop the two-stream MRF \$500,000 was added to the 2022 expenditures for budgetary impact demonstration.

### **Table VIII-5 Notes and clarifications**

Years 2011 represent Board approved budgeted expenditures. The District understands that the program expenditure estimates will be useful going into the first five years of the plan assuming a modest economic recovery. There are too many economic, political and other variables to assume a functional degree of accuracy beyond the five year period.

**Debt:** Debt is the result of a \$100,000 loan through Board and US Bank in 2003 for MRF development. The current interest rate is 2.2 percent.

**>Plan Preparation and Monitoring:** (Plan Prep/Monitoring Total Allocation 1) Calculated using an annual one percent increase through the planning period. It is possible that additional expenditures may be required if the PC contracts with an outside service provider to prepare the next plan update.

**>Administration:** Administration expenditures include a percentage of one fulltime and one part-time staff person, office overhead supplies and equipment, affiliation cost with peer organizations, property and equipment insurance.

**>Facility Operation:** Facility Operation includes MRF, Compost Facility, Recycling Center (Residential Drive through and Commercial/industrial drop-off, Appliance, Library and the E-waste and the Tire collection/processing as detailed below). The District expects Grant funded capital investment projects will take place during the planning period but has omitted grant revenues and expenditures due to their uncertainty. For planning purposes the Facility Operation forecast an annual increase of two percent, with the exception of the Compost Facility and E-waste, through the planning period. The District used a one percent annual increase calculation for the Compost Facility.

Tire disposal cost varies from \$1,700 to \$3,396 per year. Based on historic data and the three year average, 2007-2009, of \$2,414 the District anticipates the cost of tire disposal to be approximately \$2,500 in 2010 and will increase at an annual rate of two percent. ( $2,500 \times 1.02 = 2,550$ ). E-waste includes the cost of processing cathode ray tube (CRT) equipped televisions and monitors that are based on historic data for services provided by Dlubak Glass Co. of Upper Sandusky, Ohio. The District anticipates the CRT processing cost will peak in 2011 then gradually diminish throughout the remainder of the planning period at an estimated twenty percent per year until household inventories are replaced. ( $3,000 \times .80 = 2,400$ ).

**>Recycling Collection:** Recycling collection includes Recycling Curbside, in and out-of District Recycling Drop-off, and Commercial/Industrial/Institutional/Residential collection expense. For planning purposes the recycling collection is forecasted to have an annual increase of two percent from 2011 through the remainder of the planning period.

Collection for Commercial/Industrial/Institutional segment is blended between curbside and drop-off collection and therefore included in the curbside and drop-off collection totals. For forecasting purposes the District included the purchase of a new or late model recycling truck (\$100,000) in 2015, 2019 and 2027. The actual replacement dates are estimates based on the current condition of the existing trucks and available funding. The purchase will also be dependent on the results of the single stream collection and processing evaluation which will determine the body style and cost of replacement vehicles. The District anticipates investing in upgrading and adding additional Com/Ind/Inst collection equipment including roll-offs bins and collection trucks and other containers for recycling collection as funding allows. For planning purposes \$20,000 is added to the 2011 Com/Ind/Inst collection and thereafter, over the course of the Plan, incorporated into that expenditure.

**>Education Information:** Education information expenditures include administrative staff as well as the listed education events and education contract (advertisement radio time and print space) cost. The District does not anticipate any significant cost increases in education information programs. The 2010 Education/Information expenditures were significantly lower due to budget restraint.

**>HHW:** The District may host a HHW single day event excluding paint when and if there is a revenue surplus. It is not anticipated that such a surplus will exist prior to the next Plan update therefore it is not budgeted.



**>Single Stream Collection and Processing:** The project evaluation will take place prior to the next Plan update (2017) at which time the District will be capable of providing a budget for the project if it is approved to go forward by the PC and Board. Anticipated cost is between \$300,000 and \$700,000 depending on building requirement, system selection and ability to incorporate existing equipment into a new system. Although there is no definite commitment to allocate the funds to develop the two-stream MRF \$500,000 was added to the 2022 expenditures for budgetary impact demonstration.

### **C. Contingency Funding or Financing**

It is possible that equipment breakdown or unforeseen opportunities for program expansion or efficiency improvements will justify an additional capital investment during the planning period that is not included in this plan. The District will strive to maintain an unencumbered target balance roughly equivalent to twenty percent of annual expenditures to maintain planned programs through economic downturns and provide base capital for major investments such as curbside trucks and possible MRF renovation. The District will rely on the expertise of the PC and BOARD to make sound investments that affect the planned budget of the District.

The District will seek supplemental funding through local financial institutions and the BOARD if need arises. The District will make necessary adjustment to current fee structures and operating expense to compensate for unforeseen expenditures or inflation. The District will also consider expanding existing program funding mechanisms and exploring new funding mechanisms as they become available.

For more detailed information on the programs identified in **Table VIII-5** see Section IV (E) and Section V (C). For more information on the implementation schedule of planned programs and activities see Section VI, **Table VI-6**.

### **D. Summary of Costs and Revenues**

The financial outlook for the District is stable. Prudent investment and service expansion has allowed for rapid program growth over the last five years of the previous Plan. It is assumed that with continued prudent program investments and diligent monitoring of revenue sources the District will remain financially stable throughout the planning period.

The annual District budget is approved by the District PC and ratified by the BOARD. The annual budget will be adjusted to compensate for changes in revenue and program cost. Program costs are estimated by using Ohio EPA Quarterly Fee Reports and other historic data.

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

### **A. Existing Rules**

#### **Siting Authority**

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

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

#### **Facility Designation**

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

#### **Waiver Process for Non-designated Facilities**

The District BOARD reserves the right, under special circumstances, to grant waivers allowing solid waste to flow to non-designated facilities during the planning period. The BOARD will review any waiver request and determine if granting the waiver, pursuant to 343.01 (1)(2) of the Ohio Revised Code, is consistent with the projections made in the Plan or adversely affects the District’s implementation or financing of the Plan.

### **B. Proposed Rules**

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

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

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