

Solid Waste Support Document
A Comprehensive Plan for Washtenaw County

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Actors

The Board of Public Works

The Board of Public Works operates pursuant to Public Act 185, and guides the Division of Public Works on its sewage disposal and collection, water treatment and supply, lake management and solid waste projects and activities in Washtenaw County.

The Ecology Center

The Ecology Center (EC) is a membership-based, nonprofit environmental organization based in Ann Arbor, Michigan. The Ecology Center works for a just and healthy environment through grassroots organizing, advocacy, education and demonstration projects.

Michigan Department of Environmental Quality (Solid Waste Program)

The solid waste program includes the review of construction permit and operating licenses for municipal and industrial non-hazardous solid waste disposal facilities including landfills, transfer stations and processing plants; inspection of those facilities to ensure compliance with operating requirements, management of the disposal area financial assurance program; administration of solid waste management planning and solid waste alternatives grants and loans.

Michigan Department of Environmental Quality - The Waste and Hazardous Materials Division

The Waste and Hazardous Materials Division (WHMD) administers a diverse number of prevention programs to protect the environment and the public's health through proper management of hazardous products; solid, liquid, medical, and hazardous waste; and radioactive materials.

Onyx Services Inc., Arbor Hills Landfill

Arbor Hills Landfill is the only active landfill in the county and is located in Salem Township. As of January 2004, this landfill has 15.44 years of capacity remaining. In June of 1992, Washtenaw County entered into a 23-year contract with the Arbor Hills Landfill. The contract guarantees landfill capacity (air space) for Washtenaw County for the period of the contract and requires the operator to pay the county three percent of its gate revenues to support county recycling programs.

Recycle Ann Arbor

Recycle Ann Arbor is dedicated to providing education and innovative services in the collection, processing and distribution of recyclable materials. Nationally recognized as an established leader in recycling programs, Recycle Ann Arbor has been instrumental in diverting recyclable waste from landfills and reducing pressure on natural resources. In 2002, Recycle Ann Arbor recovered and recycled more than 28 million pounds of material.

Washtenaw County Consortium of Solid Waste Management (WCCSWM)

The WCCSWM was established in 1991 to foster communication and collaboration between local governments and public agencies on solid waste and recycling issues. Membership is voluntary and limited to local units of government and public agencies.

Western Washtenaw Recycling Authority

Eight western communities in the county formed the Western Washtenaw Recycling Authority (WWRA) to provide recycling services to its predominately rural residents. The WWRA assesses its residents for 24-Hour unmanned recycling drop-off stations and/or curbside recycling services. Curbside recycling service is offered to the Village of Chelsea and Village of Manchester residents and these residents are assessed at a higher rate than the other member communities.

Solid Waste Facts and Figures, 2003

Waste Generation Composition

- Commercial 63%
- Residential 37%

Waste Diversion Rates

- United States 30%
- Great Lake States 26%
- Michigan 20%
- **Washtenaw County 32%**
- Ann Arbor City 40%

Waste Generation Rates

Average Household Rates (lbs/person/day)

- National 4.40
- Washtenaw County 3.07

Average Commercial Rate

(lbs/employee/day)

- Washtenaw County 8.99

Michigan Waste Disposal Figures

62,615,429 cubic yards with

- Michigan 75%
- Canada 15%
- Other states 10%

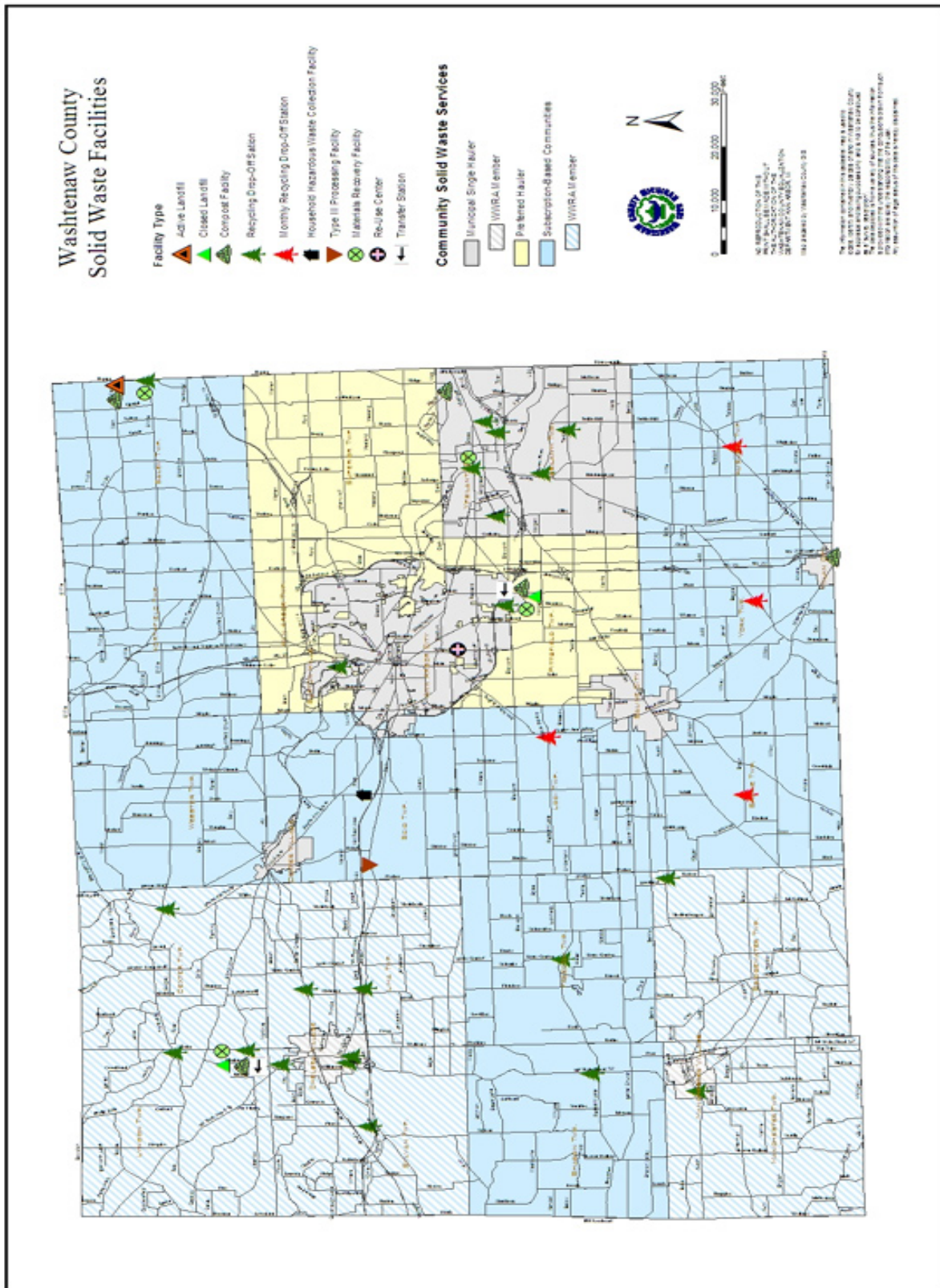
Washtenaw County Waste Disposal Figures

3,826,618 cubic yards with

- Wayne County 35%
- Canada 21%
- Oakland County 18%
- **Washtenaw County 12%**
- Macomb County 11%
- Livingston, Genesee,
and Monroe Counties 3%

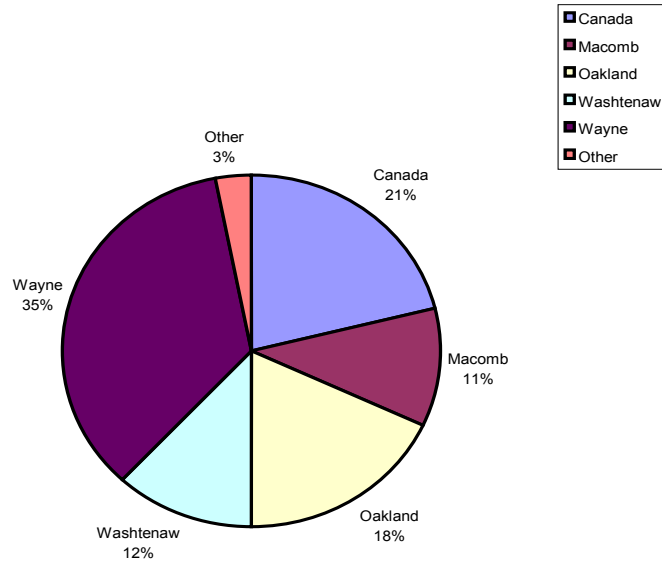
Solid Waste Facilities Map

Washtenaw County Solid Waste Facilities

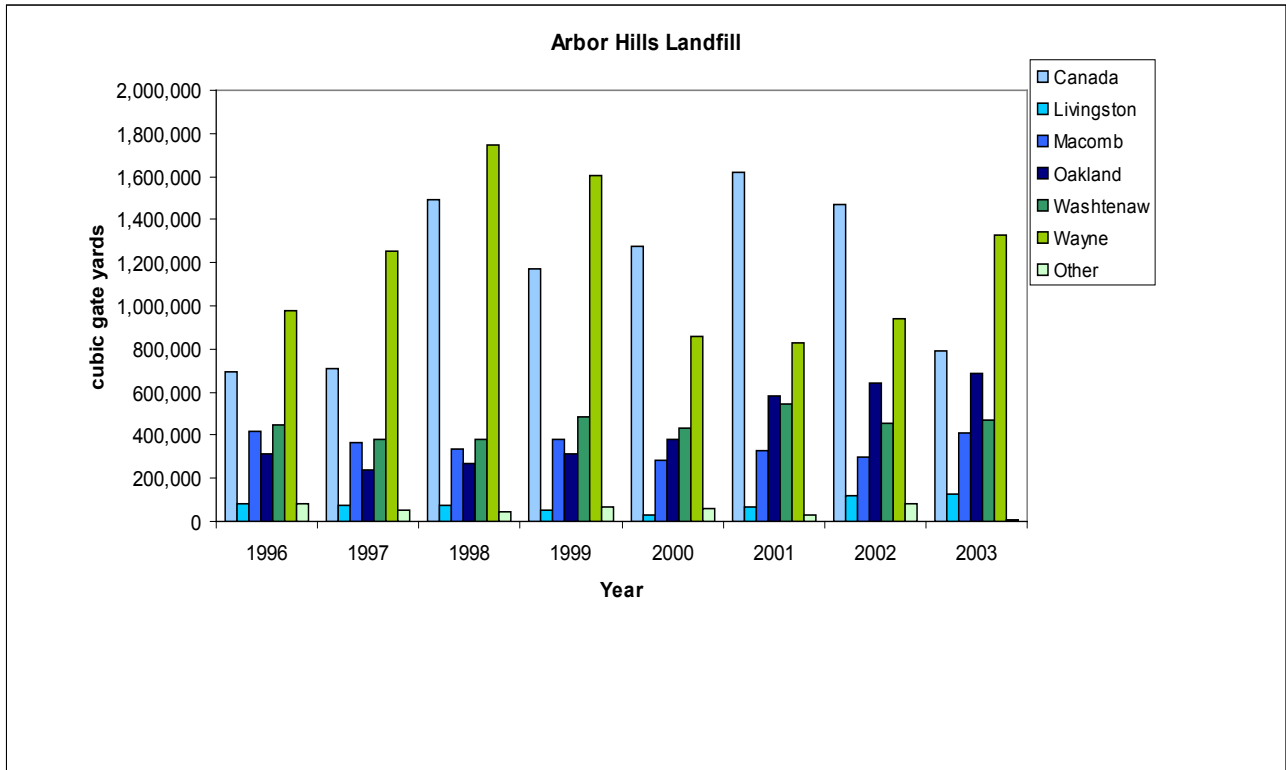


Trends

Arbor Hills Landfill: Waste Disposed by Source, 2003



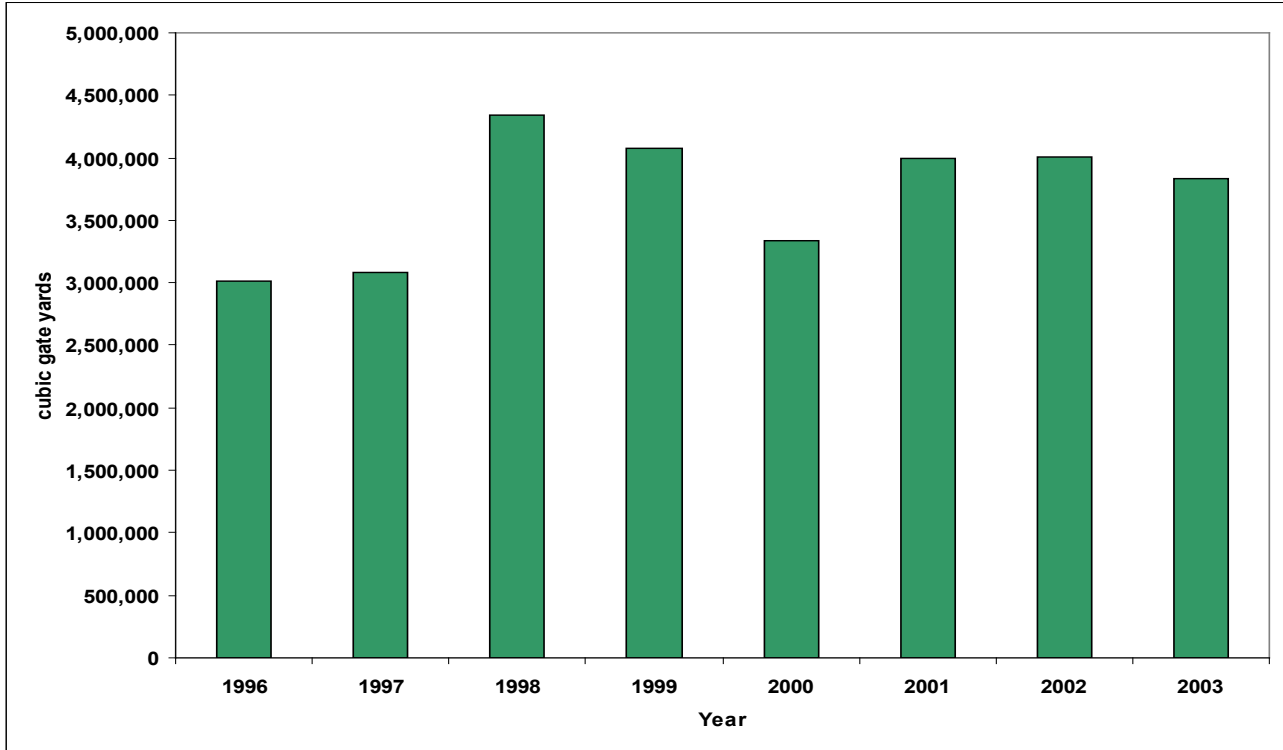
Arbor Hills Landfill: Amount of Waste Disposed by Source, 1996-2003



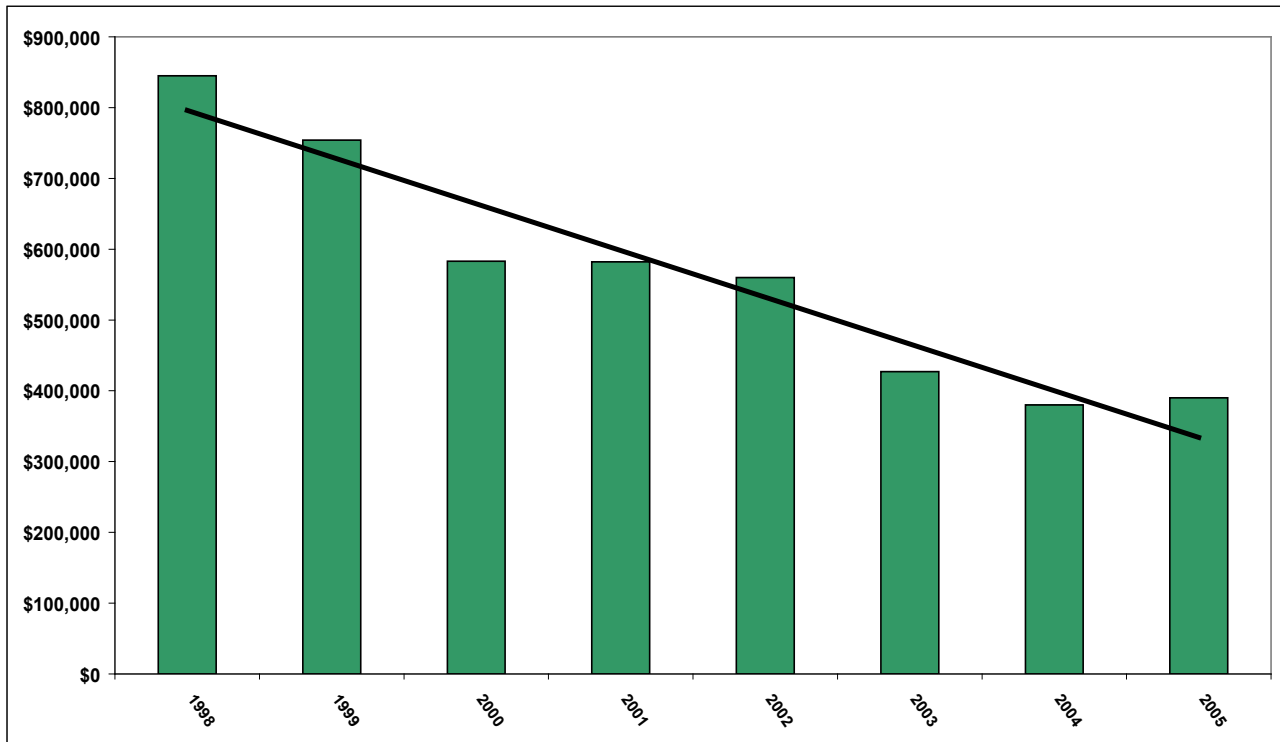
Arbor Hills Landfill Statistics

Trends (continued)

Arbor Hills Landfill: Total Amount of Waste Disposed, 1996-2003

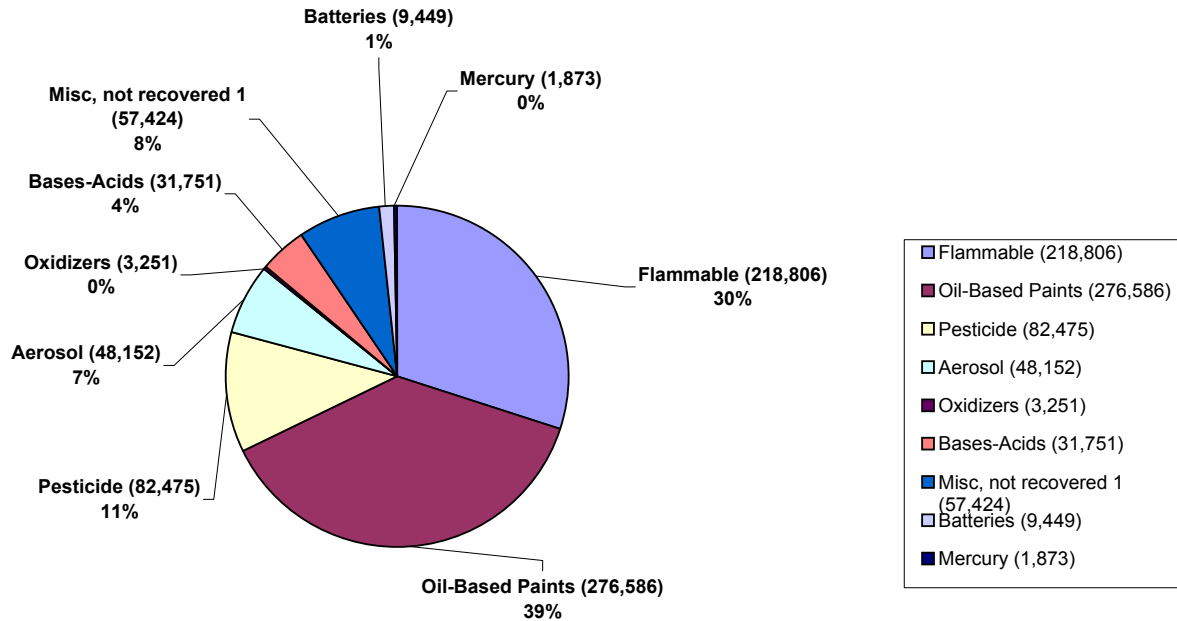


Arbor Hills Landfill: Revenue, FY 1998 - FY 2005



Trends (continued)

Home Toxics Collection, 1994-2003



Home Toxics Collection Volumes (in pounds), 1994-2003

%--(l&\$\$('7c`YWh]cb`Jc`i a Yg
(Measured in pounds)

	%--(%--)	%--*	%--+	%--,	%--	\$\$\$	\$\$\$	\$\$\$&	\$\$\$'	\$\$\$ (HclU'	AYh\cX'cZ'8]gdcgU'
Flammable	N/A	4,068	7,948	8,094	9,185	26,257	37,617	30,503	38,824	26,279	30,031	218,806 Fuel-Blend
Oil-Based Paints	N/A	14,973	8,702	16,406	24,606	51,125	60,543	36,464	56,993	46,855	28,959	276,586 Fuel-Blend
Pesticide	N/A	3,505	2,707	5,032	12,128	13,992	15,489	11,521	16,262	13,083	9,802	82,475 Incinerate
Aerosol	N/A	N/A	974	2,045	2,715	4,254	6,421	4,315	16,262	6,039	5,127	48,152 Fuel-Blend
Oxidizers	N/A	N/A	N/A	N/A	397.5	633.5	302	730	374	346	468	3,251 Treatment
Bases-Acids	N/A	870	2,075	720	278	1,631	5,650	4,342	7,217	4,791	4,177	31,751 Treatment
Misc. not recovered ¹	N/A	2,495	1,869	5,202	10,630	2,797	1,802	5,453	760	11,403	15,013	57,424 Landfilled
Misc. recovered ²	N/A	N/A	N/A	N/A	N/A	N/A	1,163	N/A	N/A	N/A	N/A	Recycled
Batteries	N/A	703	525	161.5	949	718	562	1,463	2132	1,220	1,015	9,448.5 Recycle
Mercury	N/A	17	7 lbs.	53.5	140	148	98	218	44	730	424	1,872.5 Recycle
Total lbs. Collected	768	26,631	24,807	38,619.50	60,902	101,556	129,647	*105,401	138,868	110,746		+&-Z+**

Notes:

It is important to understand that this table represents the Solid Waste Program's best attempt to combine data collected by 3 different contracts that used differing methods. This table should be used to obtain a basic picture of the types and volumes of materials collected, not as a absolute record.

¹ Includes non-hazardous waste and asbestos

² Includes lead acid batteries and oil/glycol

³ Does not include recovered fluorescent bulbs and propane tanks (Which cannot be measured in pounds)

% Recovered represents amount recovered by fuel-blending or metal recovery

Resources

Websites for Solid Waste Information

Solid Waste Management Plan Update

http://www.washtenaw.org/government/departments/planning_environment/dpw/swpc.html

- The main purpose of the (“the Plan”) is to protect public health, assure adequate disposal capacity for all waste generated within County borders, and to establish goals for waste prevention and recycling.

Other Resources

Changing Solid Waste Collection Systems: How To Make It Happen

Environmental Forum—Solid Waste Importation Conference; July 2003)

14th Annual Nationwide Survey of Solid Waste Management in the United States: The State of Garbage in America

Legal Barriers to Regulating Imported Solid Waste and How to Break Through Them (Southeast Michigan

Municipal Generation Reports: 1995-2003

Michigan Recycling Measurement Project: Collection and Diversion of Municipal Solid Waste (Michigan Recycling

Onyx Arbor Hills Landfill, INC.: 2003 Capacity Report for Washtenaw County

Regionalization: A solid Waste Solution

1996, 1997, 1998, 1999, 2000, 2001, 2002 & 2003

Solid Waste Finance Committee: Recommendation to BOC and Committee Research

Washtenaw County. 1999 Update

Washtenaw County. December 4, 2002