



REPORT OF
SOLID WASTE
LANDFILLED
IN
MICHIGAN

OCTOBER 1, 2002 – SEPTEMBER 30, 2003

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION

January 30, 2004

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INTRODUCTION

Section 11507a(1) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, requires all landfills in Michigan to “annually submit a report to the state and the county and municipality in which the landfill is located that contains information on the amount of solid waste received by the landfill during the year itemized, to the extent possible, by county, state, or country of origin.” This Report covers the period from October 1, 2002, to September 30, 2003, and is the eighth annual Report of Solid Waste Landfilled in Michigan as compiled from the information submitted by the individual landfills.

It is recognized by the Department of Environmental Quality (DEQ) that the data may include estimates as to volume and point of origin of the waste stream reported by each landfill. Additionally, use of both standard and waste-specific conversion factors between tons and cubic yards may further alter the data accuracy.

The Waste Receipt Report forms sent by the DEQ to the landfills provide for reporting of the waste received by category. Type II waste is municipal solid waste. Type III wastes are certain wastes generated in industrial and construction/demolition activities. Certain Type III wastes are accounted for specifically in landfill waste receipt reports, primarily to calculate the financial assurance applicable to those types of wastes. These specially accounted wastes are: (1) foundry sand; (2) coal or wood ash; (3) wastewater treatment sludges; and (4) sediments from wood processing or paper manufacturing. If these wastes are placed in segregated cells or otherwise separated from other wastes in a landfill, they are labeled in this Report as “Type III Segregated Waste” (if each specially accounted waste is disposed of separately) or “Type III Mixed Waste” (if the specially accounted wastes are mixed together). For additional information on these wastes, see Sections 11525(3) and (4) of Part 115.

It should be noted that this Report addresses waste imported to Michigan landfills from in-state and out-of-state locations. It does not address waste originating in Michigan that is transported to locations outside Michigan for disposal. Additionally, this Report

covers only waste landfilled in Michigan and does not attempt to determine the amount of waste removed from the overall waste stream prior to final disposal by such means as waste reduction and recycling. Incineration in Michigan is also not addressed except for the final landfilling of ash from municipal incinerators.

WASTE DISPOSAL SUMMARY INFORMATION

Total waste disposal in Michigan landfills was reported at 62,615,429 cubic yards, an increase of 5,074,507 cubic yards or about 9 percent over the Fiscal Year (FY) 2002 Report. Waste generated in Michigan increased from 46,046,479 cubic yards in the previous reporting period to 47,115,961 cubic yards, an increase of about 2 percent. Total imports of waste into Michigan landfills also increased from the previous reporting period from 11,494,443 cubic yards to 15,499,468 cubic yards, an increase of about 35 percent. The largest source of waste imports to Michigan continues to be from Canada, with total reported imports to landfills of 9,433,028 cubic yards, up 2,825,172 cubic yards or about 43 percent from the FY 2002 Report. Canadian waste imports equal about 15 percent of all waste disposed of in Michigan landfills. Waste reported from other states and Canada totaled about 25 percent of all solid waste disposed of in Michigan landfills. Imported waste comprised 20 percent of solid waste disposed of in Michigan landfills in the previous year. Further, the data that follow outline the out-of-state imports to Michigan over the past eight FYs. Imports from other states increased to 6,066,440 cubic yards from 4,886,587 cubic yards, an increase of about 24 percent. This information is presented in Tables 1 and 2 and Figure 1.

TABLE 1

**SOLID WASTE DISPOSED OF IN MICHIGAN LANDFILLS
(All Figures in Cubic Yards)**

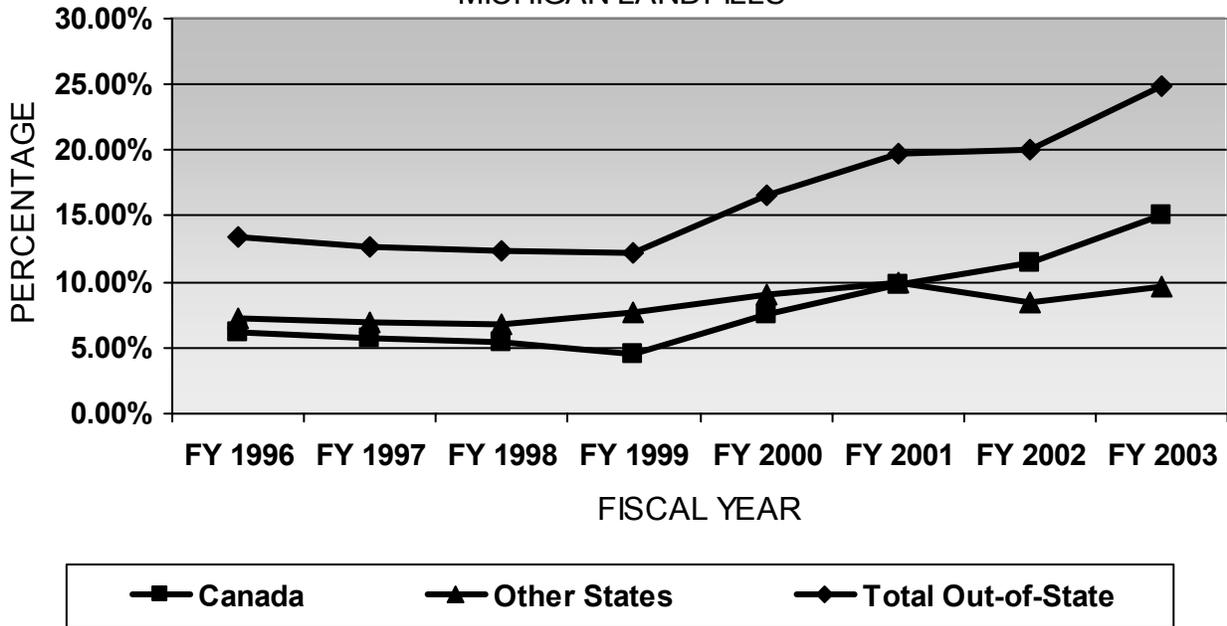
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Michigan	36,592,636	38,088,188	41,006,046	45,607,653	46,779,196	48,378,098	46,046,479	47,115,961
Canada	2,654,575	2,504,879	2,548,815	2,342,791	4,216,814	5,894,738	6,607,856	9,433,028
Other States	3,035,192	3,076,573	3,186,372	4,006,904	5,132,692	5,977,769	4,886,587	6,066,440
Totals	42,282,403	43,669,640	46,741,233	51,957,348	56,128,702	60,250,605	57,540,922	62,615,429

TABLE 2

**SOLID WASTE DISPOSED OF IN MICHIGAN LANDFILLS
BY PERCENTAGE**

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Michigan	86.5%	87.20%	87.7%	87.8%	83.3%	80.3%	80.0%	75.2%
Canada	6.2%	5.70%	5.5%	4.5%	7.5%	9.8%	11.5%	15.1%
Other States	7.2%	7.00%	6.8%	7.7%	9.1%	9.9%	8.5%	9.7%

FIGURE 1
OUT-OF-STATE WASTE AS PERCENTAGE OF TOTAL DISPOSAL IN
MICHIGAN LANDFILLS



The following pages detail volumes of waste disposed of in Michigan landfills and provide breakdowns of the waste imported into Michigan for disposal for all landfills that reported this information. Tables 3, 4, and 5 display total, in-state, and imported waste disposal summary information, respectively. It is expected that some of the unassigned waste is from out-of-state sources. However, this figure is unknown, and no reasonable estimates of the origin of unidentified wastes are available.

TABLE 3
TOTAL WASTE DISPOSAL SUMMARY
 FY 2003

<u>WASTE TYPE</u>	<u>VOLUME (CUBIC YARDS)</u>
Type II	56,557,341
General Type III	4,182,991
<hr/>	
Subtotal	60,740,332
Total Type III Mixed	471,022
Total Type III Segregated	1,404,075
<hr/>	
Grand Total	62,615,429

TABLE 4
IN-STATE WASTE DISPOSAL SUMMARY
 FY 2003

<u>WASTE TYPE</u>	<u>VOLUME (CUBIC YARDS)</u>
Type II In-State Total	41,696,721
General Type III In-State Total	3,554,618
<hr/>	
Subtotal	45,251,339
Total Type III In-State Mixed Wastes	460,547
Total Type III In-State Segregated Wastes	1,404,075
<hr/>	
Grand Total	47,115,961

TABLE 5
IMPORTED WASTE DISPOSAL SUMMARY
 FY 2003

<u>WASTE TYPE</u>	<u>VOLUME (CUBIC YARDS)</u>
Type II Out-of-State Total	14,860,620
General Type III Out-of-State Total	628,373
<hr/>	
Subtotal	15,488,993
Total Type III Out-of-State Mixed Waste	10,475
Total Type III Out-of-State Segregated Waste	0
<hr/>	
Grand Total	15,499,468

WASTE IMPORTS

Based on the reported information for FY 2003, the solid waste industry in Michigan imported solid waste from 11 other states and from Canada for disposal in Michigan landfills. Table 6 indicates the volume of Type II waste imported and the state or country of origin of the waste. Table 7 indicates the volume of Type III waste imported and the state or country of origin for that waste.

Table 8 shows the total amount of waste imported into each county from all out-of-state sources. Table 9 breaks down those totals by place of origin of the waste imported into each county receiving out-of-state waste.

TABLE 6
TYPE II IMPORTED WASTE BY ORIGIN
 FY 2003

<u>WASTE GENERATION ORIGIN</u>	<u>TYPE II WASTE VOLUME (CUBIC YARDS)</u>	
	<u>FY 2002</u>	<u>FY 2003</u>
Canada	6,587,703	9,205,847
Connecticut	720	102,638
Illinois	1,697,247	1,846,199
Indiana	1,701,290	1,783,267
Iowa	0	50
Maine	0	88,618
Missouri	60	0
New Hampshire	0	13,412
New Jersey	103	1,581
New York	5,038	60,082
Ohio	1,035,039	1,217,832
Pennsylvania	82	0
Wisconsin	423,374	541,094

TABLE 7
TYPE III IMPORTED WASTE BY ORIGIN
FY 2003

<u>WASTE GENERATION ORIGIN</u>	<u>TOTAL TYPE III WASTE VOLUME (CUBIC YARDS)</u>
Canada	227,181
Connecticut	126,262
Massachusetts	134,726
New Hampshire	21,430
New York	90,153
Ohio	28,621
Wisconsin	10,475

TABLE 8
TOTAL IMPORTED WASTE DISPOSED PER COUNTY
 FY 2003

Combined Type II and Total Type III
 Waste Volume (Cubic Yards)

<u>COUNTY</u>	<u>WASTE VOLUME</u>
ALGER	44,910
BERRIEN	3,557,167
CALHOUN	1,330
CRAWFORD	12,270
DICKINSON	10,475
GENESEE	963,165
HURON	25,834
LENAWEE	28,587
MACOMB	2,912,550
MENOMINEE	417,381
MIDLAND	60
MONROE	1,715,082
ONTONAGON	78,803
ST. JOSEPH	36,057
WASHTENAW	791,054
WAYNE	4,904,743

TABLE 9
IMPORTED WASTE TOTALS BY COUNTY AND PLACE OF ORIGIN
 FY 2003

Combined Type II and Total Type III

Waste Volume (Cubic Yards)

<u>COUNTY</u>	<u>WASTE GENERATION</u>	<u>WASTE VOLUME</u>
ALGER	Wisconsin	44,910
BERRIEN	Illinois	1,811,287
BERRIEN	Indiana	1,745,880
CALHOUN	Indiana	1,330
CRAWFORD	Canada	12,270
DICKINSON	Wisconsin	10,475
GENESEE	Canada	724,296
GENESEE	Connecticut	102,638
GENESEE	Maine	88,618
GENESEE	New Hampshire	13,412
GENESEE	New York	34,201
HURON	Canada	25,834
LENAWEE	Ohio	28,587
MACOMB	Canada	2,912,544
MACOMB	Ohio	6
MENOMINEE	Wisconsin	417,381
MIDLAND	Connecticut	60
MONROE	Canada	227,181

<u>COUNTY</u>	<u>WASTE GENERATION</u>	<u>WASTE VOLUME</u>
MONROE	Connecticut	126,202
MONROE	Massachusetts	134,726
MONROE	New Hampshire	21,430
MONROE	New York	90,153
MONROE	Ohio	1,115,390
ONTONAGON	Wisconsin	78,803
ST. JOSEPH	Indiana	36,057
WASHTENAW	Canada	791,054
WAYNE	Canada	4,765,683
WAYNE	Illinois	34,912
WAYNE	Iowa	50
WAYNE	New Jersey	1,581
WAYNE	New York	47
WAYNE	Ohio	102,470

FACILITY INFORMATION

The combined volume of all waste disposed of at each reporting facility is given in Table 10. Tables 11 and 12 list the Type II and Type III disposal volumes ranked in order of volume disposed. The first page of Table 12 does not include Type III waste disposed of as mixed Type III or segregated Type III waste (see the Introduction). Landfills receiving waste disposed of in those categories are listed on the second page of Table 12.

TABLE 10
TOTAL DISPOSAL VOLUME BY FACILITY
Alphabetical Listing
 FY 2003

<u>FACILITY NAME</u>	<u>COMBINED TOTAL WASTE VOLUME (CUBIC YARDS)</u>
Adrian Landfill Inc.	570,234
Arbor Hills West Expanded Sanitary Landfill	3,826,618
Autumn Hills Recycling & Disposal Facility	1,731,231
Brent Run Landfill	1,579,905
C&C Expanded Sanitary Landfill	1,153,548
C.W.C.S.A. Huron Monofill	705,000
Carleton Farms Landfill	7,248,415
Cemex, Inc.	35,497
Central Sanitary Landfill Inc.	687,165
Citizens Disposal Inc.	959,399
City Environmental Services LF, of Hastings	259,109
City Environmental Services, Inc. of Waters	715,330
City of Livonia Landfill	9,967
City of Midland Sanitary Landfill	635,631
Collier Road Landfill	110,355
Consumers Energy, J R Whiting Plant	70,266
Cove Landfill of Bad Axe, Inc.	303,634
D.E. Karn 1&2 Solid Waste Disposal Area	98,916
Dafter Sanitary Landfill	144,268

<u>FACILITY NAME</u>	<u>COMBINED TOTAL WASTE VOLUME (CUBIC YARDS)</u>
Delta County Landfill	105,459
Detroit Edison Company, Monroe Power Plant Ash Basin	410,422
Detroit Edison Company, Range Road Ash Disposal	264,129
DSC LTD Gibraltar Plant	439,073
Eagle Valley Recycle & Disposal Facility	1,299,422
EDW. C. Levy Co. Landfill	271,473
Elk Run Sanitary Landfill	327,816
Escanaba Paper Company	108,000
Ford Motor Co Allen Pk Clay Mine LF	314,261
Forest Lawn Landfill, Inc.	3,875,979
Glen's Sanitary Landfill, Inc.	456,565
GM Corp-Saginaw Metal Casting	74,783
Granger Grand River Landfill	384,789
Granger Wood Street Landfill	1,013,540
Great Lakes Pulp Company Type III Landfill	19,123
Holcim US, Inc.	21,517
Holland Board of Public Works, Zeeland Township Landfill	588
International Paper Company (Mead)	163,901
JC Weadock Complex	70,233
JH Campbell Complex	173,239
K & W Landfill	263,252
Kalamazoo Valley Group Low Hazard Landfill	48,601
Kent County South Kent Landfill	534,955

<u>FACILITY NAME</u>	<u>COMBINED TOTAL WASTE VOLUME (CUBIC YARDS)</u>
Lafarge North America-Type III Landfill	671,034
Liberty Environmentalists, Inc.	202,627
Manistee County Landfill Inc.	502,853
Manistique Papers Inc.	103,660
Marquette County Solid Waste	209,919
Matlin Road Landfill	784
McGill Road Landfill	191,553
Michigan Environs Inc.	892,471
Montmorency-Oscoda-Alpena SWMA	150,374
Muskegon County Type II Landfill	202,670
Northern Oaks Recycling & Disposal Facility	576,465
Oakland Heights Development, Inc.	1,978,923
Orchard Hill Sanitary Landfill	684,078
Ottawa County Farms Landfill	2,676,201
People's Landfill, Inc.	794,277
Pine Tree Acres, Inc.	4,557,531
Pitsch Sanitary Landfill	159,492
Presque Isle Power Plant Ash Landfill	47,471
Richfield Landfill, Inc.	355,403
Riverview Land Preserve	1,916,380
Sauk Trail Hills Landfill	2,480,339
Sibley Quarry	201,675
Smiths Creek Landfill	770,181

<u>FACILITY NAME</u>	<u>COMBINED TOTAL WASTE VOLUME (CUBIC YARDS)</u>
Smurfit-Stone Container Corporation Landfill	84,398
Southeast Berrien County Landfill	589,082
Sparta Foundry Waste Facility	12,645
Standard Environmental Services, Inc. Rockwood Landfill	1,610,484
Stor Enso North America Niagara Mil	10,475
The Dow Chemical Company-Salzburg Landfill	8,015
Tri-City Recycling and Disposal Facility	167,019
Venice Park Recycling & Disposal Facility	1,142,971
Vienna Junction Industrial Park Sanitary Landfill	1,387,911
Westside Recycling & Disposal Facility Type II	1,150,962
Wexford County Landfill	303,112
Whitefeather Landfill	421,639
Wood Island Waste Management, Inc.	205,980
Woodland Meadows RDF-Van Buren	3,708,767

TABLE 11
TYPE II WASTE DISPOSAL BY FACILITY
Ranked by Volume
 FY 2003

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
Carleton Farms Landfill	7,248,415
Pine Tree Acres, Inc.	4,557,531
Forest Lawn Landfill, Inc.	3,875,979
Arbor Hills West Expanded Sanitary Landfill	3,826,618
Woodland Meadows RDF-Van Buren	3,708,767
Ottawa County Farms Landfill	2,676,201
Sauk Trail Hills Landfill	2,480,339
Oakland Heights Development, Inc.	1,978,923
Riverview Land Preserve	1,916,380
Autumn Hills Recycling & Disposal Facility	1,731,231
Brent Run Landfill	1,579,905
Vienna Junction Industrial Park Sanitary Landfill	1,387,911
Eagle Valley Recycle & Disposal Facility	1,299,422
C&C Expanded Sanitary Landfill	1,153,548
Westside Recycling & Disposal Facility Type II	1,150,962
Venice Park Recycling & Disposal Facility	1,142,971
Citizens Disposal Inc.	959,399
Michigan Environs Inc.	892,471
People's Landfill, Inc.	794,277

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
City Environmental Services, Inc. of Waters	715,330
C.W.C.S.A. Huron Monofill	705,000
Granger Wood Street Landfill	700,813
Central Sanitary Landfill Inc.	687,165
Orchard Hill Sanitary Landfill	684,078
Smiths Creek Landfill	667,124
City of Midland Sanitary Landfill	618,431
Southeast Berrien County Landfill	589,082
Northern Oaks Recycling & Disposal Facility	576,465
Adrian Landfill Inc.	570,234
Kent County South Kent Landfill	534,955
Manistee County Landfill Inc.	502,853
Glen's Sanitary Landfill, Inc.	456,565
Whitefeather Landfill	421,639
Richfield Landfill, Inc.	355,403
Elk Run Sanitary Landfill	327,816
Ford Motor Co Allen Pk Clay Mine LF	314,261
Cove Landfill of Bad Axe, Inc.	303,634
Wexford County Landfill	303,112
K & W Landfill	263,252
City Environmental Services LF, of Hastings	259,109
Marquette County Solid Waste	209,919
Wood Island Waste Management, Inc.	205,980

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
Granger Grand River Landfill	198,079
Tri-City Recycling and Disposal Facility	167,019
Montmorency-Oscoda-Alpena SWMA	150,374
Dafter Sanitary Landfill	144,268
Collier Road Landfill	110,355
Delta County Landfill	105,459
McGill Road Landfill	96,576
Pitsch Sanitary Landfill	49,071

TABLE 12
TYPE III WASTE DISPOSAL BY FACILITY
Ranked by Volume
FY 2003

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
Standard Environmental Services, Inc., Rockwood Landfill	1,610,484
Lafarge North America-Type III Landfill	671,034
DSC LTD Gibraltar Plant	439,073
Granger Wood Street Landfill	312,727
EDW. C. Levy Co. Landfill	271,473
Liberty Environmentalists, Inc.	202,627
Granger Grand River Landfill	186,710
Pitsch Sanitary Landfill	110,421
Smiths Creek Landfill	103,057
McGill Road Landfill	94,977
GM Corp-Saginaw Metal Casting	74,783
Cemex, Inc.	35,497
Holcim US, Inc.	21,517
City of Midland Sanitary Landfill	17,200
Sparta Foundry Waste Facility	12,645
Stor Enso North America Niagara Mil	10,475
City of Livonia Landfill	9,967
The Dow Chemical Company-Salzburg Landfill	8,015
Matlin Road Landfill	784

MIXED TYPE III WASTE TOTALS BY FACILITY:

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
International Paper Company (Mead)	163,901
Escanaba Paper Company	108,000
Manistique Papers Inc.	103,660
Smurfit-Stone Container Corporation Landfill	84,398
Stor Enso North America Niagara Mil	10,475
Holland Board of Public Works, Zeeland Township Landfill	588

SEGREGATED TYPE III WASTE TOTALS BY FACILITY:

<u>FACILITY NAME</u>	<u>WASTE VOLUME (CUBIC YARDS)</u>
Detroit Edison Company, Monroe Power Plant Ash Basin	410,422
Detroit Edison Company, Range Road Ash Disposal	264,129
Sibley Quarry	201,675
JH Campbell Complex	173,239
D.E. Karn 1&2 Solid Waste Disposal Area	98,916
Consumers Energy, J R Whiting Plant	70,266
JC Weadock Complex	70,233
Kalamazoo Valley Group Low Hazard Landfill	48,601
Presque Isle Power Plant Ash Landfill	47,471
Great Lakes Pulp Company Type III Landfill	19,123

APPENDIX – LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

The Appendix of this Report lists every reporting landfill and indicates the amount of waste received at the landfill, the type of waste received, and the place of origin of that waste. As previously discussed in the Introduction, the mixed and segregated waste categories describe specific types of Type III waste that are identified in Part 115.

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

ADRIAN LANDFILL INC. (LENAWEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Ohio	28,587	
Hillsdale	85,230	
Ingham	2,216	
Jackson	27,012	
Lenawee	355,584	
Monroe	48,426	
Washtenaw	22,909	

**ARBOR HILLS WEST EXPANDED SANITARY LANDFILL
 (WASHTENAW COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Canada	791,054	
Genesee	5,592	
Livingston	128,799	
Macomb	412,104	
Monroe	183	
Oakland	689,568	
Washtenaw	470,271	
Wayne	1,329,047	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

AUTUMN HILLS RECYCLING & DISPOSAL FACILITY (OTTAWA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	110,823	
Barry	60	
Berrien	18,810	
Calhoun	1,032	
Ionia	1,014	
Isabella	321	
Kalamazoo	37,188	
Kent	496,143	
Mason	21,912	
Montcalm	54,852	
Muskegon	129,930	
Newaygo	90	
Ottawa	737,445	
St. Joseph	93	
Van Buren	121,518	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

BRENT RUN LANDFILL (GENESEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	604,468	
Bay	4,887	
Clinton	3,006	
Eaton	596	
Genesee	655,375	
Gratiot	60,564	
Ingham	1,341	
Isabella	30	
Lapeer	4,350	
Livingston	590	
Oakland	1,624	
Saginaw	212,532	
Shiawassee	21,247	
Tuscola	8,413	
Washtenaw	352	
Wayne	530	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

C&C EXPANDED SANITARY LANDFILL (CALHOUN COUNTY)

	TYPE II WASTE	TYPE III WASTE
Indiana	1,330	
Allegan	19,848	
Barry	11,549	
Berrien	70	
Branch	23,696	
Calhoun	277,212	
Cass	389	
Clinton	21,490	
Eaton	71,724	
Hillsdale	26,008	
Ingham	134,316	
Kalamazoo	565,124	
St. Joseph	455	
Unknown	227	
Van Buren	200	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
(All Values are in Cubic Yards)

C.W.C.S.A. HURON MONOFILL (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Ohio	3,774	
Wayne	53,814	647,412

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

CARLETON FARMS LANDFILL (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	4,586,040	
Ohio	69,087	
Allegan	10	
Antrim	30	
Barry	20	
Benzie	45	
Branch	40	
Genesee	2,570	
Gratiot	70	
Lenawee	1,209	
Livingston	3,237	
Macomb	11,464	
Monroe	148,158	
Oakland	37,993	
Washtenaw	116,688	
Wayne	2,271,754	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

CEMEX, INC. (CHARLEVOIX COUNTY)

	TYPE II WASTE	TYPE III WASTE
Charlevoix		35,497

CENTRAL SANITARY LANDFILL INC. (MONTCALM COUNTY)

	TYPE II WASTE	TYPE III WASTE
Clare	22	
Gratiot	109,498	
Ionia	11,351	
Isabella	9,474	
Kent	374,271	
Lake	2,954	
Mecosta	80,455	
Montcalm	43,388	
Newaygo	52,348	
Osceola	3,372	
Ottawa	32	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

CITIZENS DISPOSAL INC. (GENESEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Connecticut	102,638	
Maine	88,618	
New Hampshire	13,412	
New York	34,201	
Bay	1,717	
Eaton	27	
Genesee	577,255	
Ingham	143	
Ionia	12	
Lapeer	21,490	
Livingston	54,813	
Macomb	99	
Oakland	48,671	
Saginaw	11,267	
Shiawassee	4,546	
Tuscola	288	
Washtenaw	202	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

CITY ENVIRONMENTAL SERVICES LF, OF HASTINGS (BARRY COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	353	
Barry	73,509	
Calhoun	2,110	
Clinton	4,495	
Eaton	68,763	
Ingham	10,694	
Ionia	48,132	
Kalamazoo	51	
Kent	47,551	
Montcalm	3,429	
Ottawa	22	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

CITY ENVIRONMENTAL SERVICES, INC. OF WATERS (CRAWFORD COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	12,270	
Alcona	2,712	
Alpena	8,378	
Antrim	35,350	
Charlevoix	84,145	
Cheboygan	87,017	
Crawford	94,701	
Emmet	9,120	
Grand Traverse	188	
Iosco	120,438	
Kalkaska	126,727	
Montmorency	200	
Ogemaw	1,861	
Oscoda	137	
Otsego	116,029	
Presque Isle	1,320	
Roscommon	14,737	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

CITY OF LIVONIA LANDFILL (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wayne		9,967

CITY OF MIDLAND SANITARY LANDFILL (MIDLAND COUNTY)

	TYPE II WASTE	TYPE III WASTE
Bay		17,200
Midland	533,644	84,787

COLLIER ROAD LANDFILL (OAKLAND COUNTY)

	TYPE II WASTE	TYPE III WASTE
Oakland	110,355	

CONSUMERS ENERGY, J R WHITING PLANT (MONROE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Monroe		70,266

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

COVE LANDFILL OF BAD AXE, INC. (HURON COUNTY)

	TYPE II WASTE	TYPE III WASTE
New York	25,834	
Huron	56,209	
Lapeer	116,734	
Sanilac	48,866	
Tuscola	55,991	

D.E. KARN 1&2 SOLID WASTE DISPOSAL AREA (BAY COUNTY)

	TYPE II WASTE	TYPE III WASTE
Bay		98,916

DAFTER SANITARY LANDFILL (CHIPPEWA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Chippewa	101,236	
Luce	18,192	
Mackinac	24,840	

DELTA COUNTY LANDFILL (DELTA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Delta	105,459	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

**DETROIT EDISON COMPANY, MONROE POWER PLANT ASH BASIN
 (MONROE COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Monroe		410,422

**DETROIT EDISON COMPANY, RANGE ROAD ASH DISPOSAL
 (ST. CLAIR COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Huron		13,932
St. Clair		250,197

DSC LTD GIBRALTAR PLANT (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Ohio		21,272
Macomb		12,534
Monroe		4,178
Oakland		25,068
Wayne		376,021

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

**EAGLE VALLEY RECYCLE & DISPOSAL FACILITY
 (OAKLAND COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Genesee	10,712	
Lapeer	18,924	
Macomb	253,899	
Oakland	989,642	
Washtenaw	148	
Wayne	26,097	

EDW. C. LEVY CO. LANDFILL (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wayne		271,473

ELK RUN SANITARY LANDFILL (PRESQUE ISLE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Antrim	5	
Benzie	27	
Charlevoix	124,951	
Cheboygan	73,399	
Emmet	110,786	
Presque Isle	18,648	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

ESCANABA PAPER COMPANY (DELTA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Delta		108,000

FORD MOTOR CO ALLEN PK CLAY MINE LF (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Macomb	386	
Oakland	307	
Washtenaw	140	
Wayne	313,428	

FOREST LAWN LANDFILL, INC. (BERRIEN COUNTY)

	TYPE II WASTE	TYPE III WASTE
Illinois	1,811,172	
Indiana	1,358,340	
Berrien	396,955	
Cass	16,935	
Kalamazoo	201,121	
Van Buren	91,456	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

GLEN'S SANITARY LANDFILL, INC. (LEELANAU COUNTY)

	TYPE II WASTE	TYPE III WASTE
Benzie	24,164	
Grand Traverse	344,594	
Kalkaska	11,280	
Leelanau	76,395	
Manistee	132	

GM CORP-SAGINAW METAL CASTING (SAGINAW COUNTY)

	TYPE II WASTE	TYPE III WASTE
Saginaw		74,783

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

GRANGER GRAND RIVER LANDFILL (CLINTON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	11	15
Barry	2	39
Calhoun	1	5
Clinton	12,199	21,393
Eaton	88,360	85,062
Gratiot	71	2,303
Ingham	75,487	68,364
Ionia	20,769	7,680
Isabella	1	
Jackson	5	65
Livingston	197	288
Montcalm	3	10
Oakland		41
Shiawassee	970	1,445
Washtenaw	3	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

GRANGER WOOD STREET LANDFILL (INGHAM COUNTY)

	TYPE II WASTE	TYPE III WASTE
Calhoun	24	
Clinton	46,292	32,131
Eaton	44,133	13,023
Gratiot		1,095
Ingham	558,443	255,910
Ionia	1,698	191
Jackson	6	3,238
Lenawee	8	
Livingston	41,396	4,187
Oakland	7	
Shiawassee	8,806	2,952

**GREAT LAKES PULP COMPANY TYPE III LANDFILL
 (MENOMINEE COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Menominee		19,123

HOLCIM US, INC. (MONROE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Monroe		21,517

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

**HOLLAND BOARD OF PUBLIC WORKS, ZEELAND TOWNSHIP LANDFILL
 (OTTAWA COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Ottawa		588

**INTERNATIONAL PAPER COMPANY (MEAD)
 (DICKINSON COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Dickinson		163,901

JC WEADOCK COMPLEX (BAY COUNTY)

	TYPE II WASTE	TYPE III WASTE
Bay		70,233

JH CAMPBELL COMPLEX (OTTAWA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Ottawa		173,239

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

K & W LANDFILL (ONTONAGON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wisconsin	78,803	
Baraga	22,410	
Gogebic	43,174	
Houghton	64,527	
Iron	20,072	
Keweenaw	7,198	
Ontonagon	27,068	

KALAMAZOO VALLEY GROUP LOW HAZARD LANDFILL (KALAMAZOO COUNTY)

	TYPE II WASTE	TYPE III WASTE
Kalamazoo		48,601

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

KENT COUNTY SOUTH KENT LANDFILL (KENT COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	258	
Ionia	3	
Kalamazoo	10,392	
Kent	524,274	
Newaygo	4	
Ottawa	20	
Van Buren	4	

LAFARGE NORTH AMERICA-TYPE III LANDFILL (ALPENA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Alpena		671,034

LIBERTY ENVIRONMENTALISTS, INC. PHASE II (JACKSON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Calhoun		8,000
Hillsdale		10,000
Jackson		134,427
Lenawee		30,000
Washtenaw		20,200

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

MANISTEE COUNTY LANDFILL INC. (MANISTEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Benzie	42,895	
Grand Traverse	11,779	
Lake	15,375	
Leelanau	884	
Manistee	343,599	
Mason	88,321	

MANISTIQUE PAPERS INC. (SCHOOLCRAFT COUNTY)

	TYPE II WASTE	TYPE III WASTE
Schoolcraft		103,660

MARQUETTE COUNTY SOLID WASTE (MARQUETTE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Marquette	209,919	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All values are in cubic yards)

MATLIN ROAD LANDFILL (MONROE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Monroe		620
Wayne		164

MCGILL ROAD LANDFILL (JACKSON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Ingham		120
Jackson	96,576	94,772
Washtenaw		85

MICHIGAN ENVIRONS INC. (MENOMINEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wisconsin	417,381	
Alger	36,827	
Dickinson	14,080	
Menominee	424,176	
Schoolcraft	7	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

MONTMORENCY-OSCODA-ALPENA SWMA (MONTMORENCY COUNTY)

	TYPE II WASTE	TYPE III WASTE
Alcona	596	
Alpena	78,345	
Cheboygan	90	
Crawford	43	
Iosco	46	
Kalkaska	10	
Montmorency	50,674	
Oscoda	17,503	
Otsego	251	
Presque Isle	2,816	

MUSKEGON COUNTY TYPE II LANDFILL (MUSKEGON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Muskegon	185,063	
Newaygo	14,732	
Oceana	1,352	
Ottawa	1,523	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

NORTHERN OAKS RECYCLING & DISPOSAL FACILITY (CLARE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Clare	103,051	
Gladwin	45,315	
Gratiot	94,665	
Isabella	184,839	
Mecosta	19,312	
Missaukee	14,318	
Montcalm	3,711	
Ogemaw	1,856	
Osceola	42,259	
Roscommon	67,139	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

OAKLAND HEIGHTS DEVELOPMENT, INC. (OAKLAND COUNTY)

	TYPE II WASTE	TYPE III WASTE
Calhoun	1,032	
Genesee	146	
Isabella	8	
Lapeer	148	
Livingston	39	
Macomb	193,466	
Oakland	1,755,724	
Wayne	28,360	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

ORCHARD HILL SANITARY LANDFILL (BERRIEN COUNTY)

	TYPE II WASTE	TYPE III WASTE
Indiana	4,783	
Allegan	1,649	
Berrien	295,345	
Calhoun	20	
Cass	12,697	
Eaton	20	
Kalamazoo	257,614	
Ottawa	20	
St. Joseph	90	
Van Buren	111,840	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

OTTAWA COUNTY FARMS LANDFILL (OTTAWA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	5,004	
Kalamazoo	3,510	
Kent	1,023,144	
Muskegon	1,015,830	
Newaygo	3,324	
Oceana	66,060	
Ottawa	559,329	

PEOPLE'S LANDFILL, INC. (SAGINAW COUNTY)

	TYPE II WASTE	TYPE III WASTE
Bay	169,430	
Clinton	10	
Genesee	38,896	
Gratiot	13,725	
Saginaw	523,712	
Shiawassee	4	
Tuscola	48,500	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

PINE TREE ACRES, INC. (MACOMB COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	2,912,544	
Ohio	6	
Lapeer	5,736	
Macomb	1,472,595	
Oakland	15,363	
Washtenaw	35,193	
Wayne	116,094	

PITSCH SANITARY LANDFILL (IONIA COUNTY)

	TYPE II WASTE	TYPE III WASTE
Allegan	3	48
Barry		687
Calhoun		4,425
Clinton	957	1,548
Eaton	21	204
Ingham	111	258
Ionia	11,664	17,322
Isabella	3,006	33

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

PITSCH SANITARY LANDFILL (IONIA COUNTY) – Continued

Kent	5,965	71,559
Lake		54
Livingston		75
Mason		273
Mecosta	6,531	1,494
Montcalm	17,783	8,988
Muskegon	641	1,179
Osceola	2,353	
Ottawa	29	2,058
Unknown	7	
Van Buren		216

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

PRESQUE ISLE POWER PLANT ASH LANDFILL (MARQUETTE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Marquette		47,471

RICHFIELD LANDFILL, INC. (GENESEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	119,828	
Genesee	144,441	
Oakland	71,559	
Wayne	19,535	

RIVERVIEW LAND PRESERVE (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Livingston	106	
Macomb	4,079	
Monroe	61,185	
Oakland	4,271	
Washtenaw	302	
Wayne	1,846,437	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

SAUK TRAIL HILLS LANDFILL (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	14,453	
New Jersey	1,581	
New York	47	
Ohio	11	
Jackson	11	
Lenawee	108	
Livingston	52,139	
Macomb	260,309	
Monroe	13,314	
Oakland	213,206	
St. Clair	22,289	
Washtenaw	115,325	
Wayne	1,787,514	
Wexford	32	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

SIBLEY QUARRY (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wayne		201,675

SMITHS CREEK LANDFILL (ST. CLAIR COUNTY)

	TYPE II WASTE	TYPE III WASTE
St. Clair	667,124	103,057

**SMURFIT-STONE CONTAINER CORPORATION, TYPE III LANDFILL
 (ONTONAGON COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Ontonagon		84,398

SOUTHEAST BERRIEN COUNTY LANDFILL (BERRIEN COUNTY)

	TYPE II WASTE	TYPE III WASTE
Illinois	115	
Indiana	382,757	
Berrien	192,736	
Cass	12,780	
Kalamazoo	694	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

SPARTA FOUNDRY WASTE FACILITY (KENT COUNTY)

	TYPE II WASTE	TYPE III WASTE
Kent		12,645

**STANDARD ENVIRONMENTAL SERVICES, INC. ROCKWOOD LANDFILL
 (MONROE COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Canada		227,181
Connecticut		126,202
Massachusetts		134,726
New Hampshire		21,430
New York		90,153
Ohio		7,349
Macomb		115
Monroe		22,008
Oakland		6
Unknown		413
Washtenaw		482
Wayne		980,419

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

STOR ENSO NORTH AMERICA NIAGARA MIL (DICKINSON COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wisconsin		10,475

**THE DOW CHEMICAL COMPANY-SALZBURG LANDFILL
 (MIDLAND COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Connecticut		60
Mason		42
Midland		7,913

TRI-CITY RECYCLING AND DISPOSAL FACILITY (SANILAC COUNTY)

	TYPE II WASTE	TYPE III WASTE
Huron	12,983	
Lapeer	52,310	
Sanilac	92,449	
Tuscola	9,277	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

VENICE PARK RECYCLING & DISPOSAL FACILITY (SHIAWASSEE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Bay	8,890	
Clinton	28,468	
Eaton	692	
Genesee	649,545	
Gratiot	4,464	
Ingham	163,945	
Ionia	953	
Lapeer	5,976	
Livingston	2,681	
Macomb	16	
Montcalm	576	
Oakland	1,229	
Saginaw	61,614	
Shiawassee	213,915	
Wayne	7	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

**VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL
 (MONROE COUNTY)**

	TYPE II WASTE	TYPE III WASTE
Ohio	1,108,041	
Monroe	279,870	

WESTSIDE RECYCLING & DISPOSAL FACILITY TYPE II (ST. JOSEPH COUNTY)

	TYPE II WASTE	TYPE III WASTE
Indiana	36,057	
Allegan	9,737	
Berrien	12,717	
Branch	48,147	
Calhoun	6,801	
Cass	59,283	
Hillsdale	101	
Ionia	13	
Kalamazoo	595,390	
St. Joseph	334,848	
Van Buren	47,868	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
(All Values are in Cubic Yards)

WEXFORD COUNTY LANDFILL (WEXFORD COUNTY)

	TYPE II WASTE	TYPE III WASTE
Missaukee	5,238	
Wexford	297,874	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

WHITEFEATHER LANDFILL (BAY COUNTY)

	TYPE II WASTE	TYPE III WASTE
Alcona	1,065	4,079
Arenac	22,061	
Bay	213,312	
Charlevoix	5	
Clare	1,408	
Genesee	107	
Gladwin	28,474	
Gratiot	568	
Iosco	52,787	
Isabella	2,042	
Kalkaska	485	
Midland	560	
Ogemaw	24,256	
Roscommon	5,342	
Saginaw	64,275	
Tuscola	813	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

WOOD ISLAND WASTE MANAGEMENT, INC. (ALGER COUNTY)

	TYPE II WASTE	TYPE III WASTE
Wisconsin	44,910	
Alger	8,400	
Chippewa	4,524	
Dickinson	100,956	
Houghton	5,541	
Luce	14,112	
Menominee	5,037	
Schoolcraft	22,500	

APPENDIX
LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE – FY 2003
 (All Values are in Cubic Yards)

WOODLAND MEADOWS RDF-VAN BUREN (WAYNE COUNTY)

	TYPE II WASTE	TYPE III WASTE
Canada	165,190	
Illinois	34,912	
Iowa	50	
Ohio	8,326	
Lenawee	841	
Livingston	74,973	
Macomb	3,514	
Monroe	38,856	
Oakland	454,285	
Washtenaw	675,862	
Wayne	2,251,958	