

**2005**

**Summary of Indiana Solid Waste Facility Data**

**SOLID  
WASTE**



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

The *2005 Summary of Indiana Solid Waste Facility Data* is the fourteenth in the series of annual reports of solid waste facility activities in Indiana. The information is compiled from solid waste facility quarterly reports submitted to the Indiana Department of Environmental Management (IDEM). The IDEM Office of Land Quality publishes the *2005 Summary of Indiana Solid Waste Facility Data* to provide information to the public about solid waste processing and disposal activities in Indiana. This report was prepared by staff of the Facilities Data Analysis Section.

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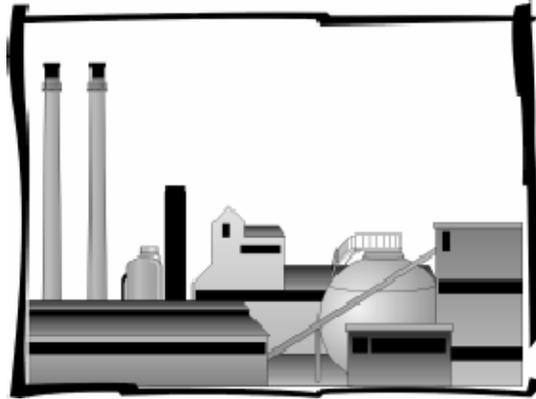
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# Introduction

This report is the thirteenth annual summary of Indiana's solid waste facility data. It is intended to provide information about Indiana's solid waste management. The report provides solid waste facility information for 2005 and contains:

- a summary of existing solid waste facilities;
- a summary of the amount, origin, and types of solid waste received at land disposal facilities and processing facilities; and
- a summary of out-of-state waste imports.



This report was compiled from the solid waste facility quarterly reports submitted to IDEM by owners and operators of facilities that manage non-hazardous solid waste. Rules passed by the Solid Waste Management Board require all solid waste land disposal facilities (329 IAC 10-14-1) and processing facilities (329 IAC 11-14-1) to submit information to IDEM on a quarterly basis describing the origin, type, and amount of solid waste received by these facilities. Processing facilities must also report the amounts and destinations of waste transported off-site for recovery or disposal. Reports submitted to IDEM are on file and available for public review.

This report emphasizes graphs, tables, and figures. Discussion text is included only as necessary to guide the reader through the report and to provide a context for the graphs and tables. Several sections that were included in previous releases of this report are not present in this year's report. Much of the information in these sections has been duplicated from year to year and/or is available in other IDEM publications. Table 1 shows how to obtain this information in addition to other information that may interest readers of this report.

Previous reports summarized municipal solid waste (MSW) landfill capacity from amounts reported by facilities or from estimates made by IDEM. Beginning in 1996, landfills were required by regulation to submit contour maps annually based on surveys conducted between October 1 and December 31 of each year. IDEM uses this information to calculate accurate and precise totals for both airspace and waste capacity. For the first time since 1996, the remaining capacity data has been included in this report. The information can be found beginning on page 37.

Prior to 1996, facilities reported non-municipal waste only as Construction-Demolition Waste and Special/Other Waste. In 1996, IDEM added categories for Special Waste, which included Foundry Wastes and Other Special Wastes, for Coal Ash, and for Flue Gas Desulfurization by-products. Legislation enacted since the beginning of the period covered by the *2000 Summary of Indiana Solid Waste Facility Data* report eliminated Special Waste as a classification. To reflect this, Foundry Wastes, which was previously under Special Waste, is retained as a separate category under its own name. Other Special Wastes is no longer a separate sub-category. Any waste previously classified as Special Waste or Industrial Waste that does not fit any of the existing available categories is reported now under the category Other Waste. Coal Ash and Flue Gas Desulfurization are retained as classifications. Because of the changes in classification types through the years covered by the *2005 Summary of Indiana Solid Waste Facility Data* report, information for disposal by waste type by year will continue to be grouped as municipal waste and non-municipal waste to make comparisons among years meaningful.

**Table 1.**  
**Sources of Solid Waste Data**

| <b>Information Available</b>   | <b>Description</b>   | <b>Contact</b>  |
|--|--|---|
| Land disposal facility quarterly reports                               | Origin, type, and tonnage of solid waste received.*  | Michelle Weddle<br>(317)233-4624                                    |
| Processing facility quarterly reports                                  | Origin, type, and tonnage of solid waste received and destination information.*  | Michelle Weddle<br>(317)233-4624                                    |
| Composting facility annual reports                                     | Type and volume of compost received and processed*   | Michelle Weddle<br>(317)233-4624                                    |
| Transfer station inspection annual reports                             | Results from inspections of incoming waste.  | Nannette Landes<br>(317)308-3040                                    |
| Waste tire storage facility processors and transporters annual reports | On-site summary of incoming and outgoing tires.  | Debby Baker<br>(317)232-0066  |
| Tire dump sites and inspections of waste tire management operations    | Information on illegal tire dump sites and progress of clean-up operations.  | Anne Weinkauff<br>(317)308-3019                                     |
| Municipal waste transportation manifests                               | Waste generation, transportation, and disposal information that accompanies waste from processing facilities for final disposal. | Debby Baker<br>(317)232-0066 or<br>Michelle Weddle<br>(317)233-4624 |
| Indiana MSW landfill disposal capacity reports                         | Remaining air space and disposal space at Indiana land disposal facilities.  | Sarah Germann<br>(317)233-1521                                      |
| Solid waste management fee reports (IDOR)                              | Monthly reports showing fees collected for solid waste disposed at final disposal facilities.                                    | Teresa Clark<br>(317)615-2590                                       |
| Solid waste disposal fee reports (IDEM)                                | Semi-annual reports showing fees collected for the disposal of specific types of solid waste.                                    | Nick Staller<br>(317)234-3478                                       |
| Solid waste management district annual reports                         | Information on district programs and activities.   | Monica Hartke-Tarr<br>(317)233-5431                                 |
| Permitted solid waste facilities list                                  | List of permitted solid waste facilities in Indiana.*  | Debby Baker<br>(317)232-0066  |

\* Online search and/or data download available at: <http://www.IN.gov/idem/programs/land/sw/index.html>

# Solid Waste Data Framework

Several factors must be considered when discussing solid waste disposal in Indiana:

- type and quantity of the waste disposed;
- type and ownership of the facility that received the waste; and
- origin of the waste received.

The following pages give an overview of key concepts necessary for understanding solid waste disposal data.

## Solid Waste Types

Solid waste can be categorized broadly as either hazardous waste or non-hazardous waste. This report deals only with **non-hazardous waste**, which can be further broken down into municipal solid waste and all other non-hazardous solid waste. **Municipal solid waste**, or MSW, is any solid waste generated by community activities or the operation of residential or commercial establishments (329 IAC 10-2-115). Prior to 1996, non-hazardous waste that is not MSW was subdivided into **construction-demolition debris**, **special waste**, and **other non-municipal waste types**. In 1996, the categories **foundry**, **coal ash**, and **flue gas desulfurization (FGD) waste** were added to provide more detailed waste information. Legislation enacted since the beginning of the period covered by the *2000 Summary of Indiana Solid Waste Facility Data* report eliminated Special Waste as a classification, as discussed in the **Introduction** to this report. Figure 1 shows the current solid waste categories. Table 2 provides more detailed explanations of these waste types.

## Solid Waste Facilities

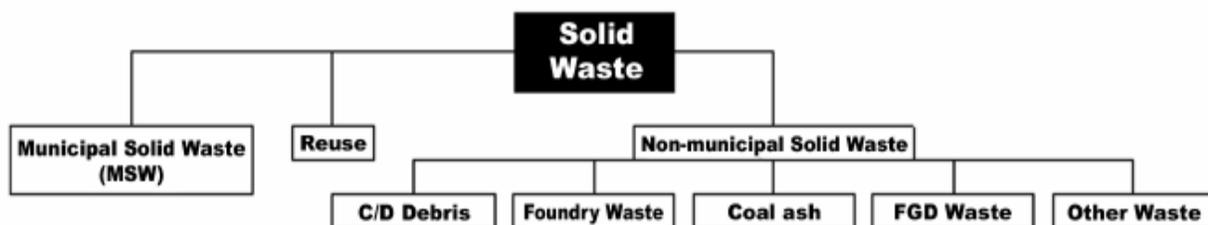
Solid waste facilities in Indiana fall into two broad permit categories: land disposal facilities and processing facilities. **Land disposal facilities** are subdivided further into four types: municipal solid waste landfills, construction-demolition sites, restricted waste sites (types 1 through 4), and non-municipal solid waste landfills. **Solid waste processing facilities** permitted by IDEM can be incinerators, transfer stations, solid waste balers, solid waste shredders, resource recovery systems, or garbage grinding facilities (329 IAC 11-2-43). Table 3 summarizes the number of permitted solid waste facilities that submitted data reports to IDEM during 2005. Table 4 describes the types of waste each facility type may receive.

### ● Land Disposal Facilities

**Municipal solid waste landfills (MSWLFs)** can accept a wide range of solid wastes disposed from residential, commercial, institutional, and industrial sources, except hazardous waste regulated under 329 IAC 3.1. Of the four landfill types, only MSWLFs can accept municipal solid wastes (Table 4).

**Construction-demolition sites** accept only construction or demolition waste materials (329 IAC 10-9-3).

Figure 1.  
Current Solid Waste Categories for Facility Quarterly Reports



**Table 2.**  
**Solid Waste Classification Guide**

| <b>TYPE</b>                        | <b>GENERAL CATEGORIES</b>  | <b>EXAMPLES</b>  |  |
|------------------------------------|--|--|--|
| <b>Municipal Solid Waste (MSW)</b> | <b>Residential</b><br>- Single- and multi-family units<br>- Other (campgrounds, parks, etc.)<br><b>Commercial</b><br>- Retail and wholesale<br>- Service industry<br><b>Institutional</b><br>- Prisons, hospitals, schools, and universities<br>- Government sector<br><b>Industrial non-process</b><br>- Offices, lunchrooms, restrooms | - Consumer goods<br>- Packaging wastes<br>- Food wastes<br>- Office wastes<br>- Yard trimmings / vegetation<br>- Appliances<br>- Automobile parts<br>- Rinsed pesticide containers<br>- Small animal carcasses<br>- Household medical wastes<br>- Household hazardous wastes (includes oil, batteries, etc.)<br>- CESQG wastes | - Treated infectious wastes<br>- Medical wastes<br>- Waste tires<br>- Used pallets<br>- Cardboard<br>- Furniture<br>- Exempt other wastes (generated by a single generator in quantities less than 100 kilograms per month and disposed of in quantities less than 100 kilograms per shipment) |
| <b>C/D Debris</b>                  | <b>Construction / Demolition</b><br>- Construction industry<br>- Demolition companies  | - Untaminated solid waste resulting from the construction, remodeling, repair or demolition of structures (e.g.: scrap lumber, wallboard)<br>- Non-asbestos insulation   | - Roofing materials<br>- Plumbing and electrical fixtures<br>- Bricks, concrete, glass   |
| <b>Foundry</b>                     | <b>Foundry Waste</b>   | - Waste sand, slag, sludge, core waste, dust fines, etc.   |  |
| <b>Coal Ash</b>                    | <b>Coal Ash</b>  | - Coal ash<br>- Fly ash, bottom ash, etc.<br>- Ash resulting from the combustion of coal   |  |
| <b>FGD Waste</b>                   | <b>Flue Gas Desulfurization Byproducts</b>   | - Scrubber / FGD sludge<br>- Pollution control sludge resulting from coal combustion   |  |
| <b>Other</b>                       | <b>Other</b><br>- Any other non-municipal solid waste not classified as C/D debris, foundry, coal ash, or FGD waste  | - Manufacturing process wastes (resins, oxides, non-coal combustion sludge, etc.)<br>- Asbestos-containing wastes<br>- Pollution control, spill cleanup wastes   | - Oil / gas/ mining wastes<br>- Incinerator residues<br>- Low-level PCB wastes<br>- Railroad ties  |
| <b>Reuse (landfills only)</b>      | <b>Reuse</b><br>- Waste utilized for construction in a landfill  | - Alternate daily cover<br>- Road construction<br>- Landscaping mulch  | - Leachate collection system construction  |

CESQG = conditionally exempt small quantity generator    PCB = polychlorinated biphenyl    FGD = flue gas desulfurization

**Table 3.**  
**Number of Permitted Solid Waste Facilities Operating During 2005**

| <b>A. Land Disposal Facilities</b>                       |    | <b>B. Processing Facilities</b>               |    |
|--|----|---|----|
| <b>Municipal Solid Waste Landfills</b>                   | 33 | <b>Solid Waste Incinerators<sup>(4)</sup></b> | 2  |
| • Privately Owned  | 24 | • Hospital                                    | 0  |
| • Publicly Owned <sup>(1)</sup>                          | 9  | • Municipal                                   | 1  |
|  |    | • Industrial <sup>(3)</sup>                   | 1  |
| <b>Construction-Demolition Sites<sup>(1)</sup></b>       | 8  | <b>Transfer Stations</b>                      | 58 |
| <b>Restricted Waste Sites<sup>(2)</sup></b>              | 16 | • Privately Owned                             | 43 |
| <b>Non-municipal Solid Waste Landfills<sup>(3)</sup></b> | 1  | • Publicly Owned                              | 15 |
| <b>TOTAL</b>   | 58 | <b>TOTAL</b>                                  | 60 |

<sup>(1)</sup> Some facilities are captive sites.

<sup>(2)</sup> Most facilities are captive sites.

<sup>(3)</sup> Facilities are captive sites.

<sup>(4)</sup> Incinerators designed to accept at least ten tons solid waste or seven tons infectious waste per day.

**Table 4.**  
**Types of Land Disposal Facilities and Incinerators**

| <b>A. Land Disposal Facilities</b>    |   |                              |
|---------------------------------------|---|------------------------------|
| <b>Type</b>                           | <b>Acceptable Wastes</b>  | <b>Data reported to IDEM</b> |
| Municipal Solid Waste Landfill        | Municipal waste, construction-demolition debris, other non-municipal wastes | Yes                          |
| Construction-Demolition Site          | Construction-demolition debris only (unless otherwise approved by IDEM)     | Yes                          |
| Restricted Waste Site                 | Non-municipal waste(s) specified in permit                                  | Yes                          |
| Non-municipal Solid Waste Landfill    | Wastes other than residential and commercial wastes                         | Yes                          |
| <b>B. Incinerators</b>                |   |                              |
| <b>Type</b>                           | <b>Acceptable Wastes</b>  | <b>Data reported to IDEM</b> |
| Large solid waste                     | Municipal waste, construction-demolition debris, other non-municipal wastes | Yes                          |
| Small solid waste <sup>(1)</sup>      | Municipal waste, construction-demolition debris, other non-municipal wastes | No                           |
| Large infectious waste                | Infectious waste (may also accept certain non-infectious waste)             | Yes                          |
| Small infectious waste <sup>(2)</sup> | Infectious waste (may also accept certain non-infectious waste)             | No                           |

<sup>(1)</sup> Incinerators designed to accept less than 10 tons per day (329 IAC 11-19-2).

<sup>(2)</sup> Incinerators designed to accept less than 7 tons per day (329 IAC 11-19-2).

**Restricted waste sites** can accept only materials specified in their landfill permits as determined by the classification criteria in 329 IAC 10-9-4. Coal combustion by-products comprise the largest portion of the waste tonnage disposed at restricted waste sites.

Like restricted waste sites, **non-municipal solid waste landfills** can accept only materials specified in their landfill permits. But non-municipal solid waste landfills have more stringent design standards than restricted waste sites. Most of Indiana's non-municipal solid waste landfills are currently captive facilities and therefore, are not available for public use.

In addition to the facility standards discussed here, each individual site may dispose of other materials not included in the above definitions according to its permit.

### ● **Processing Facilities**

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The term incinerator is defined broadly as an engineered facility designed to burn solid waste under controlled conditions. As Table 4 shows, incinerators in Indiana are categorized and regulated as either solid waste incinerators or infectious waste incinerators.

Solid waste incinerators with a design capacity of at least 10 tons per day and infectious waste incinerators with a design capacity of at least 7 tons per day must obtain a solid waste permit under Indiana solid waste rules 329 IAC 11-9 and 329 IAC 11-17. Other incinerators must notify IDEM and comply with certain operational requirements as stated in 329 IAC 11-19-2 and are deemed to be permitted.

Although incinerators are permitted and regulated under the category of processing facilities, they are considered to be final disposal facilities for planning and disposal fee purposes, as evident in statutory language. The disposal reduction goal language of P.L. 10-1990 also categorizes incineration as a final disposal method.

A **transfer station** is a facility at which solid waste is transferred from a vehicle or container to another vehicle or container for transportation purposes (329 IAC 11-2-47). Transfer stations may manage

materials in other ways according to their individual permits. For example, activities at a permitted transfer station may involve only the consolidation of waste loads for further transport, or may also incorporate some form of materials recovery, during which recyclables are segregated for recycling or reuse.

Tire, paper, and medical waste processing sites also are defined as processing facilities by statute. In 2005, three processing facilities were in operation during the year.

### ● **Accuracy of Facility Reports**

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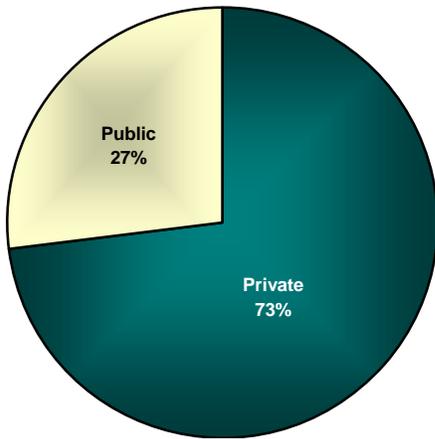
IDEM conservatively estimates that municipal solid waste tonnages may be over-reported by 20 to 40 percent due to some loads of municipal solid waste being mixed with non-municipal solid waste but identified only as municipal solid waste. According to studies in other states, construction-demolition wastes alone can constitute as much as one-third of municipal solid waste. The portion of municipal solid waste that is actually other non-municipal waste is unknown. Because of these uncertainties, caution should be used when attempting to draw conclusions regarding exact amounts of particular waste types.

## ● Municipal Solid Waste Landfill Ownership

Since the facility quarterly report program began in 1991, more of Indiana MSW landfills have been owned privately than owned publicly (Table 3). Figure 2 shows the percentages of private and public ownership of MSW landfills in 2005.

Most construction-demolition sites and restricted waste sites are privately owned. About seventy-two percent of Indiana's transfer stations and other permitted processing facilities are privately owned.

**Figure 2.**  
**Municipal Solid Waste Landfill Ownership by Percent During 2005**



*Note: For 2005, there are 9 publicly owned facilities and 24 privately owned facilities.*

## Origin of Waste

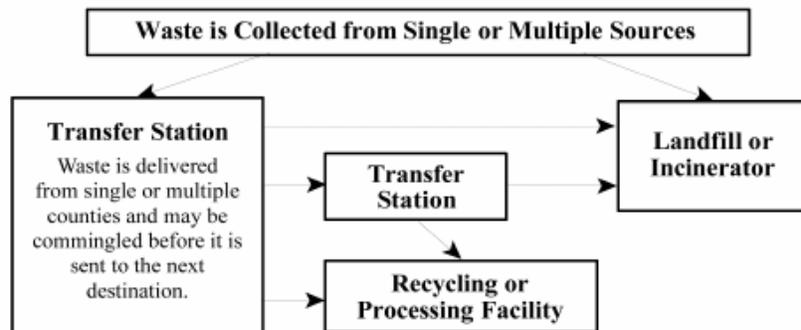
Origin of waste can be broken down by state and by county. A discussion of out-of-state waste is provided beginning on page 28.

Determination of the point of origin of waste by county is difficult due to the manner in which waste is collected and transported to landfills. Waste collection vehicles may transport the waste directly to a landfill and the hauler will report to the landfill operator the county of origin. If the waste collection routes include more than one county as points of origin, the hauler is required to report an estimated percentage of waste for each county to the landfill owner/operator. Furthermore, IDEM guidance instructs land disposal facilities to list the origin of waste received from transfer stations as the county in which the transfer station is located. The extent to which this actually occurs, however, is unknown.

Some waste collection vehicles transport waste to a transfer station, where the hauler is required to report the county (or counties) of origin. The waste received at the transfer station may be commingled with waste from other waste collection vehicles. All or part of the commingled waste may then go to one or more landfills, incinerators, transfer stations, or recycling/processing facilities, where the origin typically is reported as being the county in which the transfer station is located. Figure 3 illustrates the variety of paths that waste can take after it is collected.

In summary, the county identified on some quarterly reports may not be the point of origin, but in fact a transfer point for the waste before it is delivered to the landfill. Table 5 lists estimated amounts disposed at Indiana facilities by county of origin.

**Figure 3.**  
**Waste Disposal Pathways**



**Table 5.**  
**Waste Tons Disposed in Indiana<sup>(1)</sup>, by Estimated County of Origin**

| <b>County</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> | <b>2004</b> | <b>2005</b> |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Adams         | 49,022      | 46,997      | 46,647      | 35,183      | 31,835      | 36,833      | 47,406      | 49,534      | 47,729      |
| Allen         | 550,552     | 528,523     | 532,067     | 563,565     | 529,213     | 475,877     | 493,847     | 495,951     | 471,596     |
| Bartholomew   | 173,275     | 168,594     | 170,936     | 168,640     | 138,449     | 144,879     | 103,590     | 91,640      | 103,597     |
| Benton        | 1,900       | 2,199       | 2,429       | 1,768       | 2,342       | 2,179       | 1,949       | 1,191       | 1,153       |
| Blackford     | 27,374      | 48,542      | 30,049      | 18,025      | 15,813      | 17,597      | 31,461      | 24,582      | 26,341      |
| Boone         | 82,072      | 66,424      | 88,067      | 79,787      | 67,908      | 82,369      | 69,514      | 66,930      | 66,016      |
| Brown         | 5,318       | 4,320       | 7,414       | 5,680       | 5,009       | 4,240       | 5,563       | 6,041       | 7,933       |
| Carroll       | 23,776      | 19,773      | 22,294      | 21,530      | 24,437      | 21,492      | 20,820      | 18,698      | 15,072      |
| Cass          | 43,908      | 52,297      | 46,347      | 44,244      | 58,014      | 44,333      | 49,415      | 48,479      | 43,385      |
| Clark         | 89,442      | 95,526      | 81,612      | 98,511      | 89,357      | 79,744      | 73,544      | 88,358      | 107,665     |
| Clay          | 22,152      | 22,960      | 27,370      | 28,258      | 19,236      | 22,715      | 23,013      | 26,429      | 25,852      |
| Clinton       | 47,383      | 45,816      | 40,673      | 49,343      | 48,602      | 48,716      | 45,607      | 51,854      | 51,856      |
| Crawford      | 2,040       | 5,744       | 4,716       | 1,412       | 1,299       | 1,361       | 1,223       | 1,861       | 6,081       |
| Daviess       | 27,404      | 30,214      | 26,620      | 33,003      | 24,943      | 23,028      | 27,316      | 24,477      | 29,211      |
| Dearborn      | 2,230       | 2,363       | 2,047       | 9,124       | 895         | 1,555       | 1,198       | 509         | 512         |
| Decatur       | 25,927      | 26,226      | 26,186      | 28,521      | 31,507      | 30,840      | 33,129      | 30,451      | 28,658      |
| DeKalb        | 158,921     | 170,934     | 130,392     | 151,427     | 139,531     | 152,390     | 126,868     | 51,236      | 41,314      |
| Delaware      | 152,903     | 156,084     | 126,859     | 154,664     | 139,272     | 154,054     | 148,748     | 164,217     | 153,745     |
| Dubois        | 41,479      | 42,606      | 48,287      | 57,241      | 58,420      | 37,615      | 43,161      | 63,088      | 62,581      |
| Elkhart       | 418,501     | 436,867     | 501,018     | 413,623     | 396,569     | 373,738     | 384,136     | 408,603     | 433,305     |
| Fayette       | 15,240      | 11,949      | 17,294      | 17,493      | 17,969      | 19,224      | 20,820      | 19,907      | 18,857      |
| Floyd         | 67,047      | 55,835      | 58,657      | 56,326      | 49,136      | 32,263      | 29,586      | 25,370      | 22,516      |
| <b>County</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> | <b>2004</b> | <b>2005</b> |
| Fountain      | 80,733      | 58,391      | 44,248      | 44,952      | 54,349      | 55,323      | 52,168      | 71,542      | 95,361      |
| Franklin      | 5,235       | 4,104       | 4,300       | 5,468       | 7,804       | 6,532       | 5,562       | 6,071       | 8,067       |
| Fulton        | 30,168      | 45,105      | 50,356      | 39,723      | 34,502      | 25,096      | 27,309      | 32,553      | 30,236      |
| Gibson        | 868,292     | 1,743,917   | 945,627     | 1,038,734   | 1,102,377   | 1,212,387   | 1,001,323   | 1,026,286   | 1,012,977   |
| Grant         | 89,656      | 83,442      | 104,116     | 86,924      | 91,298      | 82,840      | 80,030      | 81,485      | 87,506      |
| Greene        | 18,448      | 20,543      | 23,605      | 24,112      | 21,758      | 25,024      | 27,281      | 26,566      | 24,600      |
| Hamilton      | 155,769     | 232,712     | 261,592     | 168,933     | 164,178     | 197,831     | 231,298     | 265,622     | 303,887     |
| Hancock       | 100,261     | 110,809     | 115,518     | 120,722     | 103,938     | 121,638     | 116,343     | 89,672      | 88,072      |
| Harrison      | 24          | 112         | 314         | 473         | 1,825       | 3,080       | 28,817      | 2,582       | 4,756       |
| Hendricks     | 130,399     | 126,982     | 141,111     | 151,346     | 144,364     | 190,277     | 216,369     | 242,244     | 244,592     |
| Henry         | 92,410      | 94,261      | 76,231      | 62,868      | 65,101      | 66,298      | 62,376      | 71,183      | 63,308      |
| Howard        | 158,536     | 169,044     | 157,698     | 188,929     | 161,842     | 140,215     | 147,439     | 103,928     | 113,074     |
| Huntington    | 39,284      | 38,921      | 38,263      | 41,292      | 62,478      | 61,618      | 44,952      | 42,924      | 41,796      |
| Jackson       | 55,372      | 57,475      | 55,609      | 59,808      | 58,622      | 61,142      | 54,063      | 63,712      | 65,653      |
| Jasper        | 142,311     | 159,756     | 166,873     | 168,003     | 163,210     | 174,913     | 181,972     | 176,349     | 203,323     |
| Jay           | 22,599      | 54,742      | 47,752      | 23,032      | 25,997      | 32,009      | 28,084      | 21,768      | 23,012      |
| Jefferson     | 95,900      | 63,526      | 69,832      | 126,774     | 111,541     | 144,881     | 105,274     | 114,109     | 148,744     |
| Jennings      | 18,747      | 21,175      | 20,760      | 19,987      | 23,374      | 21,987      | 22,190      | 22,400      | 31,861      |
| Johnson       | 155,967     | 155,694     | 149,403     | 161,435     | 176,820     | 186,809     | 197,351     | 178,716     | 188,847     |
| Knox          | 68,449      | 53,088      | 52,723      | 60,216      | 67,999      | 56,611      | 61,158      | 65,694      | 76,156      |
| Kosciusko     | 243,412     | 241,978     | 232,641     | 226,065     | 203,843     | 177,684     | 227,711     | 190,608     | 192,479     |
| Lagrange      | 26,265      | 50,329      | 35,700      | 32,846      | 36,015      | 38,842      | 31,973      | 35,459      | 37,856      |
| Lake          | 769,061     | 930,599     | 1,115,650   | 1,100,952   | 1,099,149   | 1,112,574   | 1,034,327   | 1,179,381   | 1,321,724   |
| La Porte      | 149,638     | 134,509     | 124,388     | 128,926     | 110,455     | 141,069     | 115,806     | 100,504     | 103,593     |
| Lawrence      | 46,633      | 39,565      | 36,273      | 57,211      | 72,008      | 49,951      | 62,595      | 85,099      | 65,515      |

| <b>County</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> | <b>2004</b> | <b>2005</b> |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Madison       | 182,565     | 173,774     | 176,554     | 171,067     | 187,423     | 169,789     | 185,259     | 174,710     | 173,199     |
| Marion        | 1,432,887   | 1,341,364   | 1,446,384   | 1,556,981   | 1,722,697   | 1,621,430   | 1,893,804   | 1,874,188   | 1,917,536   |
| Marshall      | 81,075      | 91,128      | 97,866      | 97,969      | 83,882      | 87,323      | 81,106      | 88,344      | 85,457      |
| Martin        | 7,898       | 16,886      | 19,298      | 14,916      | 15,899      | 18,136      | 13,020      | 19,644      | 19,138      |
| Miami         | 28,471      | 32,925      | 41,634      | 42,320      | 43,549      | 37,493      | 39,547      | 44,758      | 41,670      |
| Monroe        | 128,903     | 137,838     | 134,706     | 137,420     | 141,150     | 147,720     | 172,384     | 156,988     | 138,180     |
| Montgomery    | 78,910      | 158,463     | 234,947     | 168,214     | 81,208      | 170,940     | 211,258     | 226,916     | 114,328     |
| Morgan        | 41,391      | 49,879      | 49,548      | 65,400      | 58,946      | 60,120      | 63,295      | 43,167      | 47,672      |
| Newton        | 17,910      | 13,727      | 12,638      | 12,616      | 13,313      | 11,907      | 14,777      | 16,256      | 13,604      |
| Noble         | 82,792      | 140,173     | 113,300     | 114,368     | 97,152      | 86,829      | 90,233      | 95,305      | 73,562      |
| Ohio          | 67          | 51          | 357         | 250         | 65          | 53          | 44          | 75          | 253         |
| Orange        | 17,750      | 18,034      | 14,938      | 19,162      | 19,457      | 17,902      | 16,746      | 19,099      | 22,643      |
| Owen          | 13,791      | 8,131       | 8,436       | 9,817       | 10,894      | 14,026      | 8,320       | 9,961       | 13,467      |
| Parke         | 16,589      | 11,682      | 8,887       | 11,278      | 11,050      | 9,494       | 8,199       | 9,444       | 9,669       |
| Perry         | 45,736      | 77,801      | 130,014     | 152,844     | 143,950     | 166,205     | 164,654     | 181,933     | 197,658     |
| Pike          | 605,544     | 520,868     | 101,361     | 18,273      | 17,701      | 18,299      | 13,199      | 18,106      | 14,130      |
| Porter        | 78,998      | 80,199      | 95,070      | 106,677     | 107,780     | 93,501      | 83,851      | 85,197      | 93,278      |
| Posey         | 441,333     | 437,653     | 378,171     | 288,486     | 304,732     | 297,264     | 253,299     | 286,909     | 302,785     |
| Pulaski       | 7,654       | 8,283       | 7,401       | 6,443       | 7,239       | 8,768       | 6,935       | 6,246       | 6,873       |
| Putnam        | 30,472      | 28,944      | 29,539      | 36,378      | 37,544      | 33,995      | 38,407      | 34,017      | 34,914      |
| Randolph      | 30,653      | 34,377      | 30,899      | 24,829      | 45,917      | 26,942      | 28,748      | 26,521      | 25,462      |
| Ripley        | 13,219      | 12,123      | 12,952      | 11,593      | 8,610       | 12,237      | 13,869      | 12,550      | 12,715      |
| Rush          | 20,262      | 30,453      | 36,719      | 26,615      | 25,008      | 26,713      | 29,382      | 31,259      | 36,508      |
| <b>County</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> | <b>2001</b> | <b>2002</b> | <b>2003</b> | <b>2004</b> | <b>2005</b> |
| St. Joseph    | 253,189     | 232,307     | 200,874     | 217,838     | 207,146     | 176,815     | 190,566     | 201,008     | 194,160     |
| Scott         | 20,225      | 21,502      | 23,583      | 24,788      | 20,684      | 20,778      | 21,767      | 20,493      | 19,170      |
| Shelby        | 100,964     | 100,517     | 104,384     | 113,831     | 106,111     | 111,123     | 95,409      | 70,773      | 77,664      |
| Spencer       | 15,702      | 203,585     | 145,984     | 207,722     | 240,580     | 178,226     | 216,862     | 221,719     | 450,651     |
| Starke        | 14,593      | 11,985      | 9,294       | 8,203       | 5,888       | 7,672       | 9,015       | 9,806       | 10,096      |
| Steuben       | 21,593      | 19,600      | 26,263      | 26,925      | 27,857      | 28,580      | 24,108      | 29,561      | 26,141      |
| Sullivan      | 1,016,140   | 948,650     | 905,662     | 948,941     | 923,428     | 865,330     | 870,591     | 792,373     | 939,195     |
| Switzerland   | 1,953       | 1,768       | 1,988       | 1,239       | 2,880       | 4,479       | 4,138       | 598         | 552         |
| Tippecanoe    | 176,748     | 187,132     | 164,502     | 204,184     | 201,480     | 208,180     | 203,302     | 193,763     | 181,978     |
| Tipton        | 14,092      | 12,267      | 16,906      | 12,555      | 13,843      | 16,417      | 15,613      | 39,548      | 15,084      |
| Union         | 1,124       | 482         | 1,537       | 2,168       | 2,253       | 2,525       | 3,090       | 2,333       | 3,758       |
| Vanderburgh   | 242,216     | 239,678     | 249,633     | 252,567     | 270,480     | 265,421     | 279,354     | 290,034     | 305,241     |
| Vermillion    | 36,429      | 37,872      | 35,210      | 36,423      | 29,642      | 30,882      | 36,621      | 41,667      | 40,480      |
| Vigo          | 202,182     | 206,839     | 229,081     | 212,474     | 191,523     | 188,441     | 190,323     | 195,937     | 252,606     |
| Wabash        | 233,976     | 274,892     | 256,013     | 215,805     | 231,323     | 179,477     | 152,034     | 172,079     | 116,660     |
| Warren        | 96          | 280         | 1,299       | 416         | 235         | 1,988       | 162         | 52          | 359         |
| Warrick       | 45,379      | 49,245      | 45,359      | 43,342      | 53,035      | 51,009      | 59,265      | 46,442      | 64,055      |
| Washington    | 18,189      | 20,782      | 19,949      | 28,020      | 32,517      | 23,174      | 24,476      | 32,805      | 22,489      |
| Wayne         | 87,538      | 94,227      | 87,871      | 80,310      | 81,963      | 76,149      | 89,016      | 94,325      | 107,280     |
| Wells         | 28,472      | 31,396      | 25,950      | 21,800      | 20,652      | 19,688      | 23,282      | 27,161      | 21,666      |
| White         | 32,436      | 29,958      | 26,294      | 28,709      | 27,874      | 27,163      | 25,987      | 32,368      | 28,367      |
| Whitley       | 16,540      | 10,354      | 14,770      | 21,797      | 17,238      | 26,293      | 26,430      | 25,326      | 32,625      |

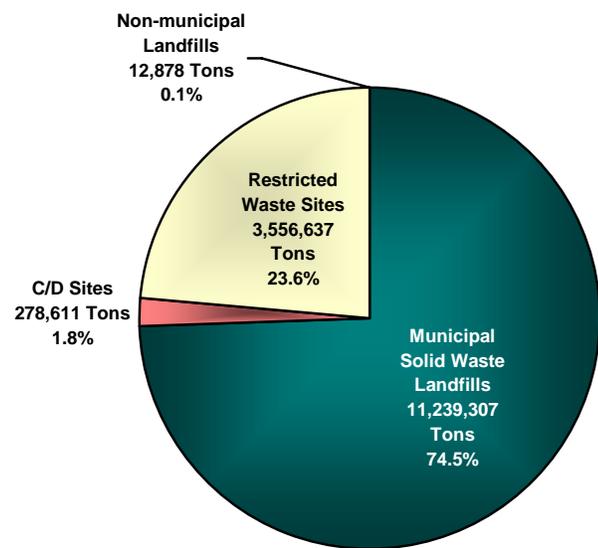
<sup>(1)</sup> Note: The information in Table 5 reflects the amount of waste from each county that was disposed of in an Indiana final disposal facility, either by direct haul or through an Indiana transfer station. It does not include waste disposed out-of-state, which explains the low amounts reported for counties near state lines. 1995 and 1996 data can be viewed in the 2003 and 2004 solid waste annual reports, respectively.

# Solid Waste Land Disposal Facilities

The data in this annual summary reflect the information provided in the solid waste facility quarterly reports submitted to IDEM. There may be some differences between the numbers published in this summary report and previously published annual reports. These differences are due primarily to improvements in the data quality checks made by IDEM Office of Land Quality.

Table 6 displays the amount of solid waste disposed at Indiana land disposal facilities by each reported waste type during 2005. Figure 4 displays this information by landfill type, and Figure 5 by waste

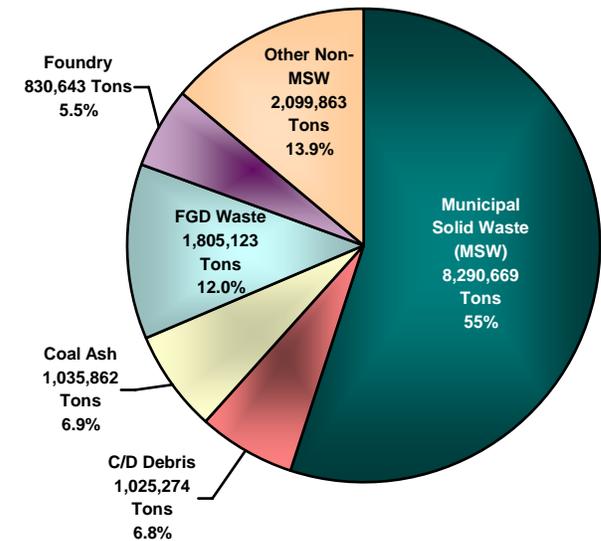
**Figure 4. Disposal of Solid Waste by Landfill Type During 2005**



**Table 6. Disposal of Solid Waste by Landfill Type and Waste Type During 2005**

| Waste Type          | Tons of Waste Disposed          |                                |                        |                                     |   | All Landfills |
|---------------------|---------------------------------|--------------------------------|------------------------|-------------------------------------|---|---------------|
|                     | Municipal Solid Waste Landfills | Construction/ Demolition Sites | Restricted Waste Sites | Non-municipal Solid Waste Landfills |   |               |
| <b>Municipal</b>    | 8,290,669                       | 0                              | 0                      | 0                                   | 0 | 8,290,669     |
| <b>C/D Debris</b>   | 746,663                         | 278,611                        | 0                      | 0                                   | 0 | 1,025,274     |
| <b>Coal Ash</b>     | 0                               | 0                              | 1,035,862              | 0                                   | 0 | 1,035,862     |
| <b>FGD Waste</b>    | 0                               | 0                              | 1,805,123              | 0                                   | 0 | 1,805,123     |
| <b>Foundry</b>      | 115,867                         | 0                              | 714,776                | 0                                   | 0 | 830,643       |
| <b>Other NonMSW</b> | 2,086,109                       | 0                              | 876                    | 12,878                              | 0 | 2,099,863     |
| <b>TOTAL</b>        | 11,239,307                      | 278,611                        | 3,556,637              | 12,878                              | 0 | 15,087,433    |

**Figure 5. Disposal of Solid Waste by Waste Type During 2005**



type, both as percentages of total. Table 7 displays totals of solid waste disposed at Indiana land disposal facilities from 1997 through 2005 for municipal waste and all other waste types grouped as non-municipal waste. Table 8 shows the same information as Table 7 but excludes direct imports to Indiana landfills. Due to reporting limitations, waste originating outside Indiana that is brought into the state through an in-state transfer station and disposed in an Indiana landfill cannot be excluded from the quantities in Table 8. Figure 6 shows the municipal waste, non-municipal waste, and total disposal figures for all landfills in Tables 7 and 8 in graph form to more clearly depict disposal trends year-to-year.

Waste received at solid waste incinerators is discussed on page 25 in the chapter on processing facilities.

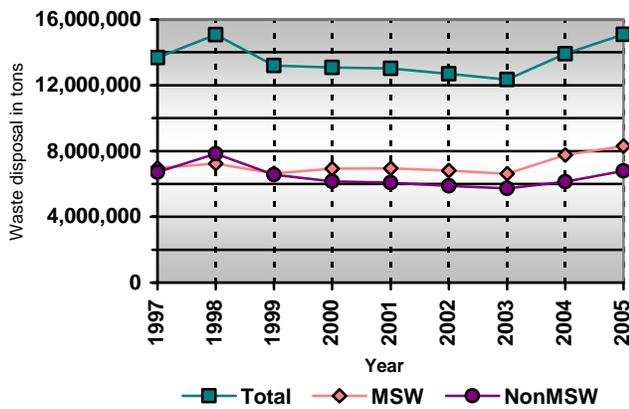
**Table 7.**  
**Annual Disposal at Solid Waste Land Disposal**  
**Facilities by Landfill Type and Waste Type**

(Includes waste imports to Indiana)

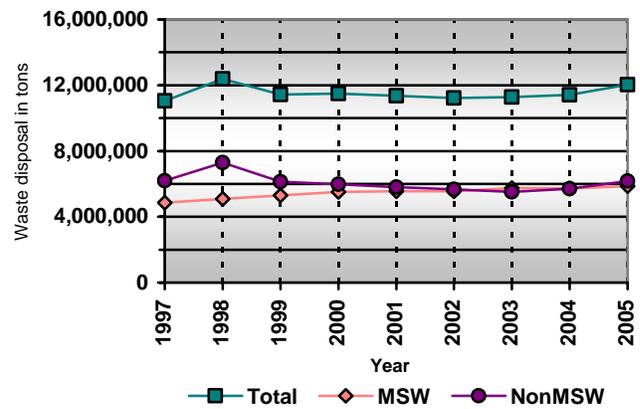
| Landfill Type                       | Waste Type | Tons of Waste Disposed |            |            |            |            |            |            |            |            |
|-------------------------------------|------------|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                                     |            | 1997                   | 1998       | 1999       | 2000       | 2001       | 2002       | 2003       | 2004       | 2005       |
| Municipal Solid Waste Landfills     | MSW        | 6,959,493              | 7,233,635  | 6,634,100  | 6,928,077  | 6,937,485  | 6,804,633  | 6,617,491  | 7,767,135  | 8,290,669  |
|                                     | NonMSW     | 2,757,504              | 2,901,949  | 2,821,091  | 2,331,200  | 2,328,151  | 2,098,482  | 2,262,761  | 2,559,497  | 2,948,638  |
|                                     | TOTAL      | 9,716,997              | 10,135,584 | 9,455,191  | 9,259,277  | 9,265,636  | 8,903,115  | 8,880,252  | 10,326,632 | 11,239,307 |
| Construction /Demolition Sites      | MSW        | 0                      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 187,725                | 195,723    | 229,010    | 146,536    | 127,680    | 118,664    | 170,149    | 350,291    | 278,611    |
|                                     | TOTAL      | 187,725                | 195,723    | 229,010    | 146,536    | 127,680    | 118,664    | 170,149    | 350,291    | 278,611    |
| Restricted Waste Sites              | MSW        | 0                      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 3,740,680              | 4,689,484  | 3,438,190  | 3,525,067  | 3,551,753  | 3,547,708  | 3,263,520  | 3,218,770  | 3,556,637  |
|                                     | TOTAL      | 3,740,680              | 4,689,484  | 3,438,190  | 3,525,067  | 3,551,753  | 3,547,708  | 3,263,520  | 3,218,770  | 3,556,637  |
| Non-municipal Solid Waste Landfills | MSW        | 0                      | 0          | 0          | 0          | 4,381      | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 34,016                 | 41,264     | 71,131     | 140,201    | 70,468     | 117,284    | 22,568     | 10,803     | 12,878     |
|                                     | TOTAL      | 34,016                 | 41,264     | 71,131     | 140,201    | 74,849     | 117,284    | 22,568     | 10,803     | 12,878     |
| All Landfills                       | MSW        | 6,959,493              | 7,233,635  | 6,634,100  | 6,928,077  | 6,941,866  | 6,804,633  | 6,617,491  | 7,767,135  | 8,290,669  |
|                                     | NonMSW     | 6,719,925              | 7,828,420  | 6,559,422  | 6,143,004  | 6,078,052  | 5,882,138  | 5,718,998  | 6,139,360  | 6,796,764  |
|                                     | TOTAL      | 13,679,418             | 15,062,055 | 13,193,522 | 13,071,081 | 13,019,918 | 12,686,771 | 12,336,489 | 13,906,496 | 15,087,433 |

**Figure 6.**  
**Annual Disposal at All Solid Waste Land Disposal Facilities**

(Includes waste imports to Indiana)



(Excludes direct imports to Indiana landfills)



**Table 8.**  
**Annual Disposal at Solid Waste Land Disposal**  
**Facilities by Landfill Type and Waste Type**

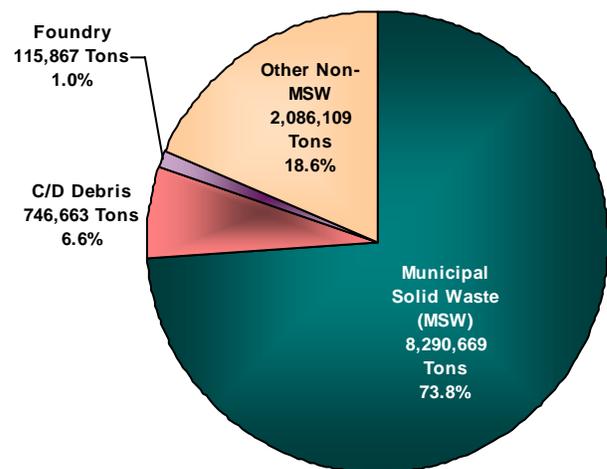
(Excludes direct imports to Indiana landfills)

| Landfill Type                       | Waste Type | Tons of Waste Disposed |            |            |            |            |            |            |            |            |
|-------------------------------------|------------|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                                     |            | 1997                   | 1998       | 1999       | 2000       | 2001       | 2002       | 2003       | 2004       | 2005       |
| Municipal Solid Waste Landfills     | MSW        | 4,858,656              | 5,080,056  | 5,297,116  | 5,515,530  | 5,546,617  | 5,555,518  | 5,754,129  | 5,719,373  | 5,864,329  |
|                                     | NonMSW     | 2,275,083              | 2,407,182  | 2,439,624  | 2,166,705  | 2,053,755  | 1,902,596  | 2,127,281  | 2,350,077  | 2,488,859  |
|                                     | TOTAL      | 7,133,739              | 7,487,238  | 7,736,740  | 7,682,235  | 7,600,372  | 7,458,114  | 7,881,410  | 8,069,450  | 8,353,188  |
| Construction /Demolition Sites      | MSW        | 0                      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 148,257                | 166,489    | 205,432    | 144,976    | 126,264    | 97,236     | 105,576    | 124,275    | 110,643    |
|                                     | TOTAL      | 148,257                | 166,489    | 205,432    | 144,976    | 126,264    | 97,236     | 105,576    | 124,275    | 110,643    |
| Restricted Waste Sites              | MSW        | 0                      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 3,740,680              | 4,689,484  | 3,438,190  | 3,525,067  | 3,551,753  | 3,547,708  | 3,263,521  | 3,218,770  | 3,556,637  |
|                                     | TOTAL      | 3,740,680              | 4,689,484  | 3,438,190  | 3,525,067  | 3,551,753  | 3,547,708  | 3,263,521  | 3,218,770  | 3,556,637  |
| Non-municipal Solid Waste Landfills | MSW        | 0                      | 0          | 0          | 0          | 4,381      | 0          | 0          | 0          | 0          |
|                                     | NonMSW     | 34,016                 | 38,860     | 49,300     | 139,966    | 67,739     | 112,793    | 22,568     | 10,803     | 12,878     |
|                                     | TOTAL      | 34,016                 | 38,860     | 49,300     | 139,966    | 72,120     | 112,793    | 22,568     | 10,803     | 12,878     |
| All Landfills                       | MSW        | 4,858,656              | 5,080,056  | 5,297,116  | 5,515,530  | 5,550,998  | 5,555,518  | 5,754,129  | 5,719,373  | 5,864,329  |
|                                     | NonMSW     | 6,198,036              | 7,302,015  | 6,132,546  | 5,976,714  | 5,799,511  | 5,660,333  | 5,518,946  | 5,703,925  | 6,169,017  |
|                                     | TOTAL      | 11,056,692             | 12,382,071 | 11,429,662 | 11,492,244 | 11,350,509 | 11,215,851 | 11,273,075 | 11,423,298 | 12,033,346 |

### Municipal Solid Waste Landfills

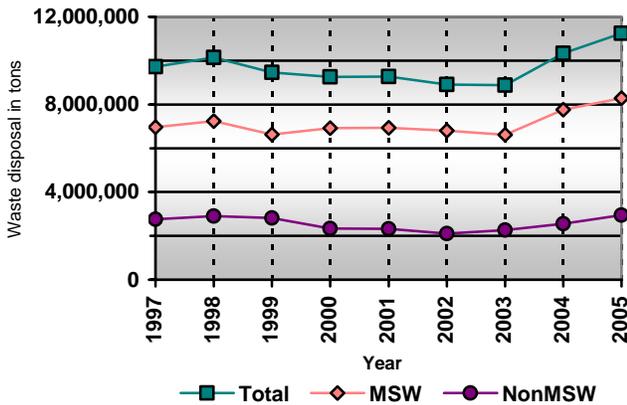
Most questions about land disposal facilities deal primarily with municipal solid waste (MSW) landfills. MSW landfills receive waste materials from residences, businesses, institutions, and industries. As a result of the wide range of waste types these landfills receive, they are built to more stringent landfill design criteria than, for example, a construction-demolition site that accepts only construction-demolition wastes. Figure 7 breaks down the amounts disposed at MSW landfills by waste type shown in Table 6 as a percentage of total.

**Figure 7.**  
**Disposal of Solid Waste at Municipal**  
**Solid Waste Landfills by Waste Type**  
**During 2005**



**Figure 8.**  
**Annual Disposal at Municipal Solid Waste Landfills**

(Includes waste imports to Indiana)



(Excludes direct imports to Indiana landfills)

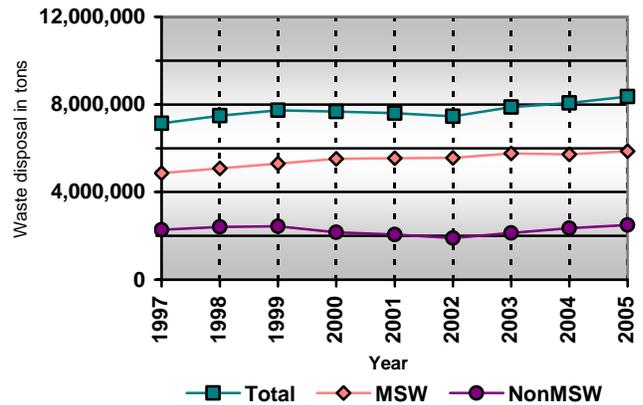


Figure 8 shows the municipal waste, non-municipal waste, and total disposal figures for MSW landfills in Tables 7 and 8 in graph form, similarly to Figure 6, which shows this for all landfills. Again, this is to more clearly depict disposal trends year-to-year.

Figure 9 shows the disposal of out-of-state waste vs. Indiana waste at MSW landfills. A more detailed discussion of out-of-state waste is provided beginning on page 28.

**Figure 9.**  
**Annual Disposal at Municipal Solid Waste Landfills by Waste Origin**

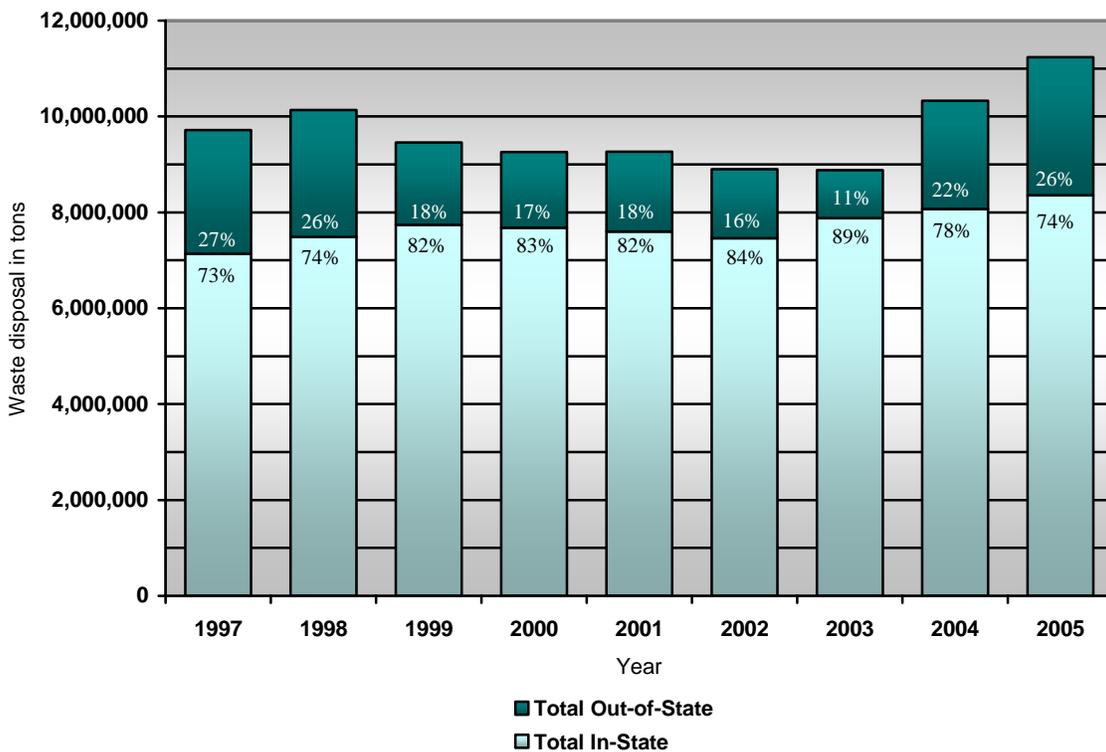


Figure 10 shows the distribution of disposal among MSW landfills. Note that 39% (or 13) of MSW landfills accepted less than 100,000 tons of solid waste.

**Figure 10.**  
**Distribution of Disposal at Municipal Solid Waste Landfills During 2005**

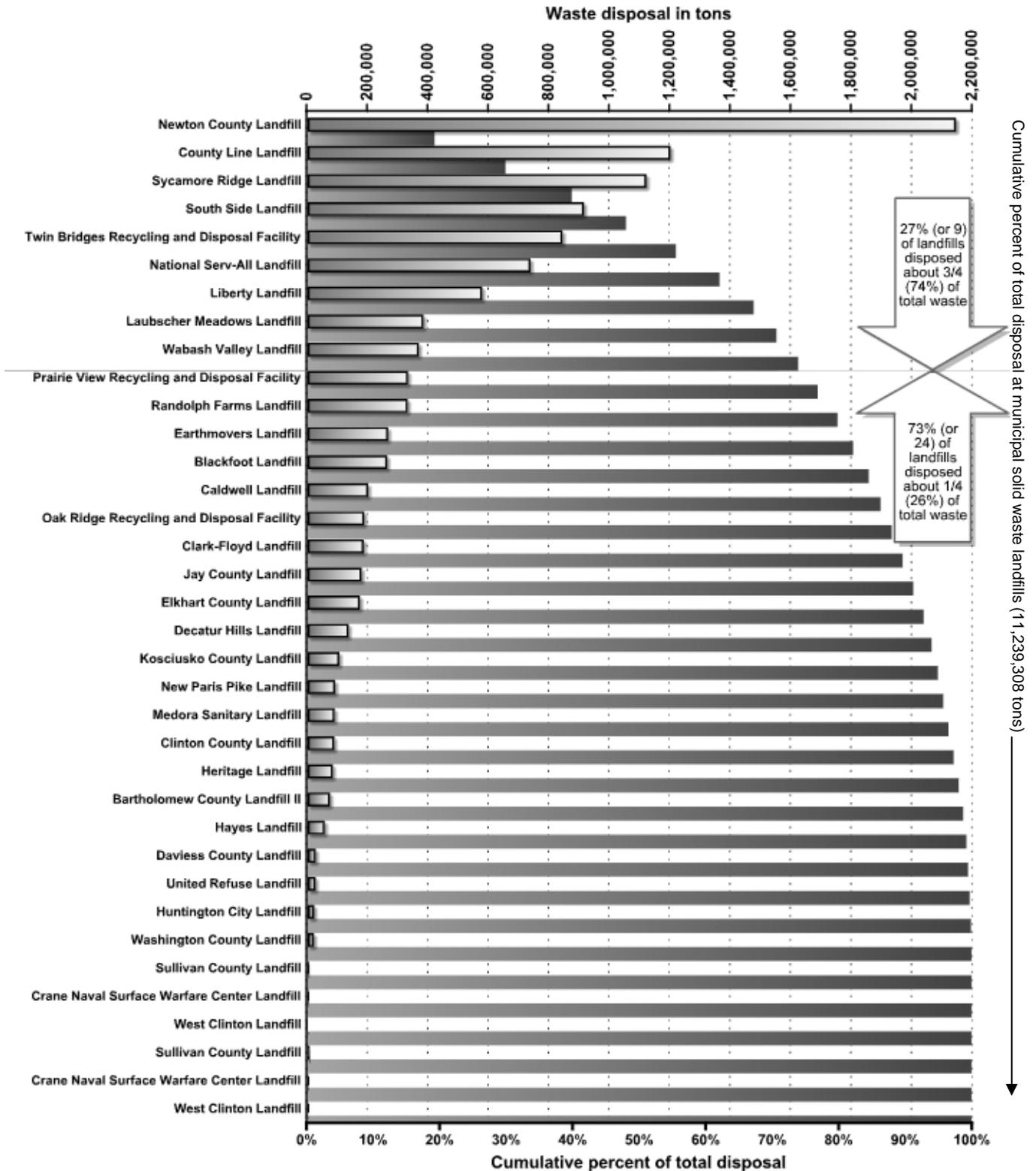


Table 9 summarizes total disposal at individual MSW landfills during 2005. More detailed disposal data for all solid waste disposal facilities is in a separate report entitled “2005 Solid Waste Facility Profiles.”

**Table 9.**  
**Total Disposal at Municipal Solid Waste Landfills During 2005**

| County<br>Location of<br>Facility                    | Facility Name                                | Waste<br>Disposal<br>(Tons) | Number of<br>Operating<br>Days | Disposal per<br>Operating<br>Day (Tons) |
|--|--|-----------------------------|--------------------------------|---|
| Allen  | National Serv-All Landfill                   | 737,344                     | 307                            | 2,402                                   |
| Allen  | United Refuse Landfill                       | 26,268                      | 82                             | 320                                     |
| Bartholomew  | Bartholomew County Landfill II               | 74,301                      | 304                            | 244                                     |
| Cass   | Oak Ridge Recycling And Disposal Facility    | 187,332                     | 282                            | 664                                     |
| Clark  | Clark-Floyd Landfill                         | 185,847                     | 306                            | 607                                     |
| Clinton  | Clinton County Landfill                      | 88,272                      | 256                            | 345                                     |
| Daviess  | Daviess County Landfill                      | 27,238                      | 300                            | 91                                      |
| Decatur  | Decatur Hills Landfill                       | 135,967                     | 308                            | 441                                     |
| Elkhart  | Earthmovers Landfill                         | 266,203                     | 282                            | 944                                     |
| Elkhart  | Elkhart County Landfill                      | 173,480                     | 291                            | 596                                     |
| Fulton   | County Line Landfill                         | 1,200,430                   | 301                            | 3,988                                   |
| Hendricks  | Twin Bridges Recycling & Disposal Facility   | 843,399                     | 283                            | 2,980                                   |
| Henry  | Hayes Landfill                               | 57,106                      | 303                            | 188                                     |
| Huntington   | Huntington City Landfill                     | 21,975                      | 268                            | 82                                      |
| Jackson  | Medora Sanitary Landfill                     | 89,613                      | 308                            | 291                                     |
| Jay  | Jay County Landfill                          | 178,531                     | 259                            | 689                                     |
| Kosciusko  | Kosciusko County Landfill                    | 104,941                     | 255                            | 412                                     |
| Marion   | South Side Landfill                          | 914,353                     | 311                            | 2,940                                   |
| Martin   | Crane Naval Surface Warfare Center Landfill  | 3,114                       | 248                            | 13                                      |
| Newton   | Newton County Landfill                       | 2,145,175                   | 301                            | 7,127                                   |
| Pike   | Blackfoot Landfill                           | 263,501                     | 308                            | 856                                     |
| Putnam   | Heritage Landfill                            | 83,312                      | 259                            | 322                                     |
| Randolph   | Randolph Farms Landfill                      | 331,189                     | 311                            | 1,065                                   |
| St Joseph  | Prairie View Recycling And Disposal Facility | 332,377                     | 258                            | 1,288                                   |
| Shelby   | Caldwell Landfill                            | 200,498                     | 365                            | 549                                     |
| Sullivan   | Sullivan County Landfill                     | 4,700                       | 257                            | 18                                      |
| Vanderburgh  | Laubscher Meadows Landfill                   | 383,296                     | 307                            | 1,249                                   |
| Vermillion   | West Clinton Landfill                        | 662                         | 307                            | 2                                       |
| Vigo   | Sycamore Ridge Landfill                      | 1,120,734                   | 308                            | 3,639                                   |
| Wabash   | Wabash Valley Landfill                       | 368,041                     | 306                            | 1,203                                   |
| Washington   | Washington County Landfill                   | 21,119                      | 294                            | 72                                      |
| Wayne  | New Paris Pike Landfill                      | 91,377                      | 246                            | 371                                     |
| White  | Liberty Landfill                             | 577,613                     | 281                            | 2,056                                   |
| <b>Total for all Municipal Solid Waste Landfills</b> |  | <b>11,239,307</b>           |                                |   |

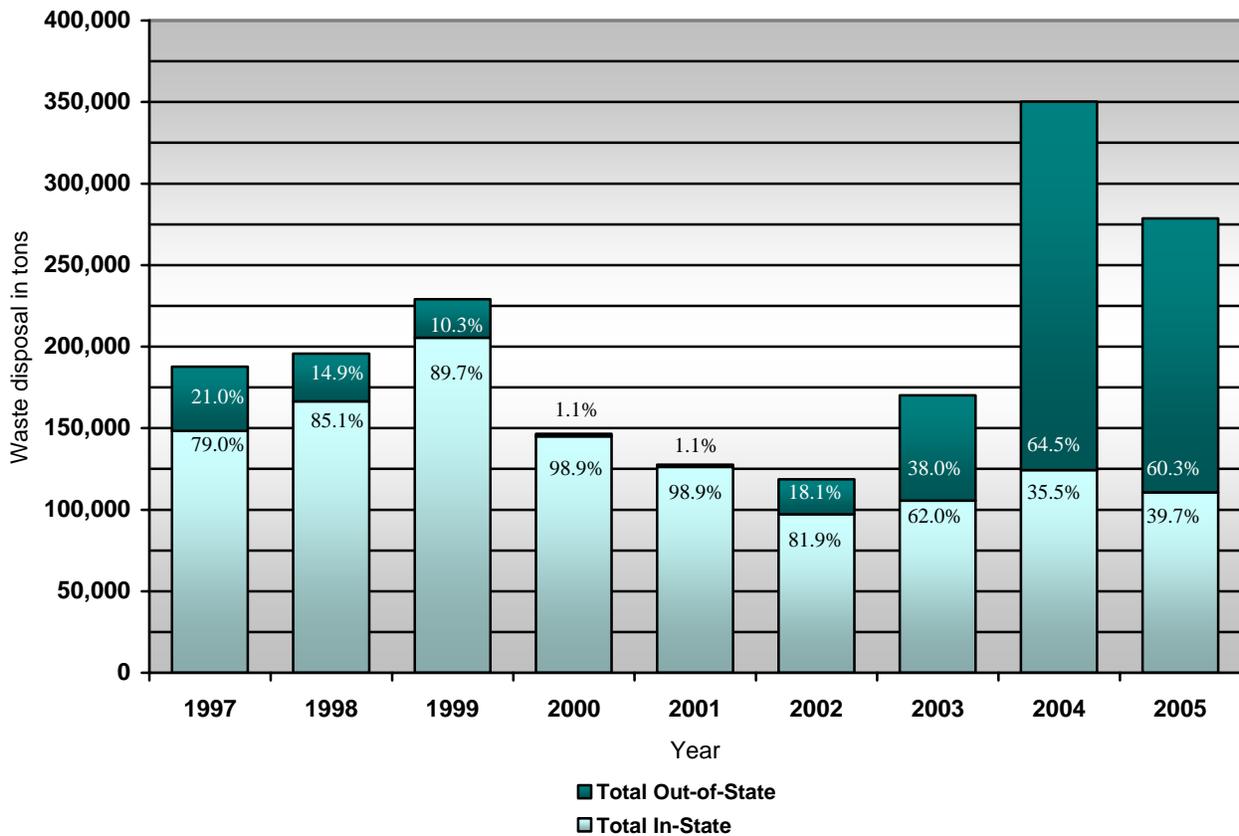
## Other Solid Waste Land Disposal Facilities

### Construction-Demolition Sites

Construction-demolition sites receive only construction and demolition waste as described in Table 2. As shown in Figure 11, these sites did not receive a significant amount of out-of-state waste until 1996, when the amount of out-of-state waste increased from 5 to 36 percent of total receipts. Percentages of out-of-state waste received by construction-demolition sites returned to their pre-1996 levels in 2000 and 2001 but increased again thereafter. Table 10 provides a listing of the construction-demolition landfills and the total amount of waste each facility received in 2005. In 2004 the total disposal at the Lake County C/D Site increased significantly from the previous year, increasing the total annual disposal at Construction-Demolition Sites (Figure 11). A total of 223,521 tons was disposed at this site, originating from Cook County, Illinois where there was a landfill closing at the end of 2003.



**Figure 11.**  
**Annual Disposal at Construction-Demolition Sites by Waste Origin**



**Table 10.**  
**Total Disposal at Construction-Demolition Sites During 2005**

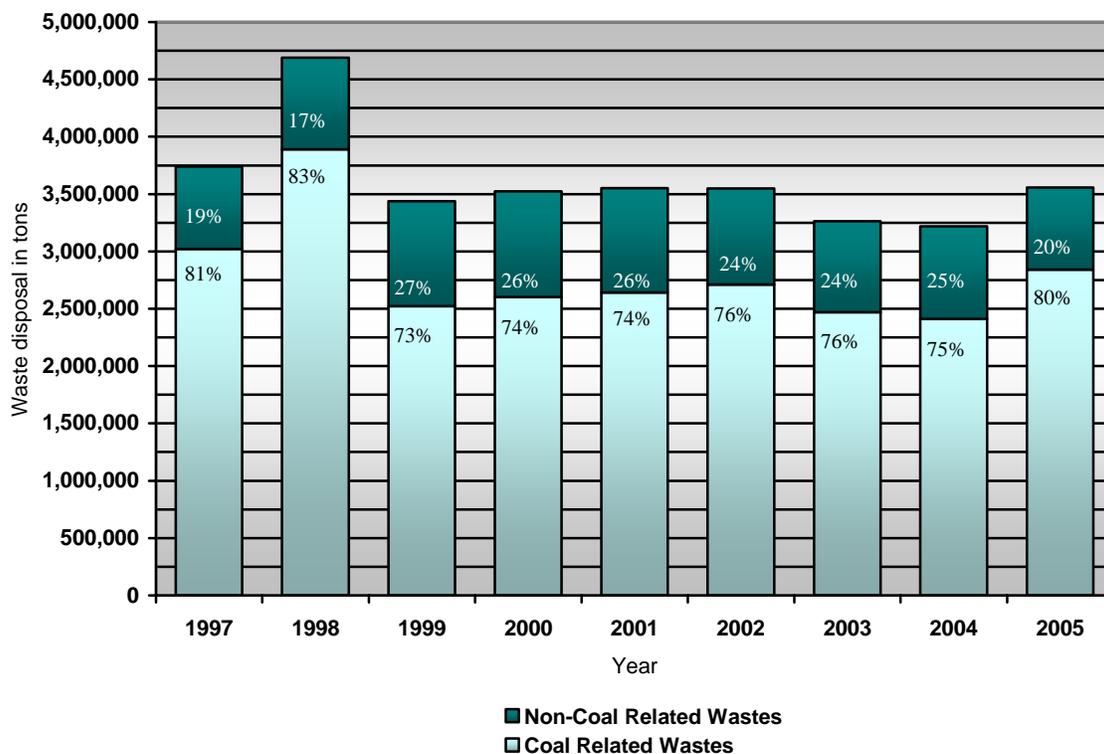
| County Location of Facility                         | Facility Name                                     | Waste Disposal in Tons |
|---|---|------------------------|
| Allen   | M & M C/D Site                                    | 182                    |
| Bartholomew   | City Garage Construction/Demolition Disposal Site | 263                    |
| Elkhart   | Warner & Sons Inc. C/D Site                       | 9,524                  |
| Lake  | Lake County C/D Site                              | 199,048                |
| Martin  | Crane Naval Surface Warfare Center C/D Site       | 190                    |
| Pike  | Velpen Solid C/D Site                             | 21,447                 |
| Posey   | Springfield Environmental C/D Site                | 34,246                 |
| Vermillion  | West Clinton II C/D Site                          | 13,711                 |
| <b>Total for All Construction-Demolition Sites:</b> |   | <b>278,611</b>         |

**● Restricted Waste Sites**

Restricted waste sites also receive a limited range of wastes, as specified in their facility permits. Most sites are ash, sludge, or foundry monofills. Coal combustion wastes from power plants accounted for 80 percent of the total tonnage disposed at restricted waste sites in 2005 (Figure 12). Note that prior to

1996, coal combustion wastes were not individually reported waste types on the solid waste facility quarterly reporting program. Before 1996, the amount of coal-related wastes disposed was estimated based on the amount of waste received at specific types of restricted waste sites related to coal combustion.

**Figure 12.**  
**Annual Disposal at Restricted Waste Sites by Waste Type**



The total waste disposed each year in restricted waste sites is much larger than the amount received at construction-demolition sites, although not as large as the amount of waste received by municipal solid waste landfills (Figure 4).

No restricted waste sites have reported receiving out-of-state waste since 1991. Table 11 provides a listing of the restricted waste sites and the total amount of waste each facility received during 2005.

**Table 11.**  
**Total Disposal at Restricted Waste Sites During 2005<sup>(1)</sup>**

| <b>County Location of Facility</b>           | <b>Facility Name</b>                               | <b>Waste Disposal in Tons</b> |
|--|--|-------------------------------|
| Fountain                                     | Harrison Steel Cast RWS 3                          | 94,875.00                     |
| Gibson                                       | Gibson Station Scrubber RWS 2                      | 977,579.00                    |
| Jasper                                       | R M Schahfer Generating Station RWS 1              | 181,323.00                    |
| Jefferson                                    | Clifty Creek Coal Ash Disposal RWS 3               | 124,848.00                    |
| Knox   | Scepter RWS 1                                      | 27,697.89                     |
| Kosciusko                                    | Dalton Foundry RWS 3                               | 90,193.00                     |
| Lake   | U.S. Steel - Gary Works RW 1                       | 270,436.00                    |
| Lawrence                                     | Lehigh Portland Cement Co RWS 1                    | 876.00                        |
| Noble  | Dalton Corp. Kendallville Mfg. Fac. Monofill RWS 3 | 29,944.00                     |
| Perry  | Waupaca Foundry RWS 3                              | 188,783.00                    |
| Pike   | IPL Petersburg Generating Station RWS 3            | 3,500.00                      |
| Posey  | SIGECO Filter Cake Disposal RWS 3                  | 202,009.50                    |
| Spencer                                      | Rockport Plant Ash RWS 2                           | 422,356.44                    |
| Sullivan                                     | Merom Station RWS 2                                | 929,369.00                    |
| Wabash                                       | Ford Meter Box RWS 2                               | 3,159.30                      |
| Wabash                                       | Wabash Alloys RWS 1                                | 9,688.00                      |
| <b>Total for All Restricted Waste Sites:</b> |  | <b>3,556,637</b>              |

(1) In 2005, City Garage changed its facility type from a Restricted Waste Site to a Construction-Demolition Site.

## ● **Non-municipal Solid Waste Landfills**

The 1996 rules introduced the terms municipal solid waste (MSW) landfill and non-municipal solid waste (Non-MSW) landfill, which have been used throughout this report. In previous reports, Non-MSW landfills were grouped with MSW landfills under the general heading of “sanitary landfills.” MSW landfills were discussed earlier in this section.

Historically there have been only a few Non-MSW landfills in Indiana, all captive facilities, not available for public use. Non-MSW landfills receive any type of waste described in Table 2 except MSW, pursuant to the specifications of their permits. Table 12 provides a detail of the Non-MSW landfill operating in 2005 and the total amount of waste it received.

**Table 12.**  
**Total Disposal at Non-municipal Solid Waste Landfills During 2005**

| <b>County Location of Facility</b>            | <b>Facility Name</b>                              | <b>Waste Disposal in Tons</b> |
|---|---|-------------------------------|
| Monroe  | Dillman Road Waste Water Treatment Plant Landfill | 12,878                        |
| <b>Total for All Non-municipal Landfills:</b> |   | <b>12,878</b>                 |

# Solid Waste Processing Facilities

Solid waste processing facilities include:

- solid waste incinerators;
- transfer stations; and
- other processing facilities.

Table 13 displays the amount of solid waste received by permitted Indiana incinerators (excluding small-capacity incinerators) and transfer stations by each reported waste type during 2005. Table 14 displays similar information from 1997 through 2005 for municipal and non-municipal waste. More detailed data for all solid waste processing facilities is provided in a separate report entitled “2005 Solid Waste Facility Profiles.” Other processing facilities are discussed later in this section.

**Table 13.**  
**Solid Waste Received by Processing Facilities by Waste Type During 2005**

| Waste Type           | Tons of Waste Received      |                   |
|----------------------|-----------------------------|-------------------|
|                      | Incinerators <sup>(1)</sup> | Transfer Stations |
| <b>Municipal</b>     | 622,348                     | 3,122,682         |
| <b>C/D</b>           | 0                           | 430,393           |
| <b>Coal Ash</b>      | 0                           | 0                 |
| <b>FGD Waste</b>     | 0                           | 0                 |
| <b>Foundry</b>       | 0                           | 0                 |
| <b>Other Non-MSW</b> | 44,202                      | 56,139            |
| <b>TOTAL</b>         | <b>666,550</b>              | <b>3,609,214</b>  |

<sup>(1)</sup> Does not include small-capacity incinerators receiving less than 10 tons/day of solid waste or 7 tons/day of infectious waste.

**Table 14.**  
**Annual Amount of Solid Waste Received by Processing Facility Type and Waste Type**

(Includes waste imports to Indiana)

| Facility Type               | Waste Type   | Tons of Waste Received |                  |                  |                  |                  |                  |                  |                  |                  |
|-----------------------------|--------------|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                             |              | 1997                   | 1998             | 1999             | 2000             | 2001             | 2002             | 2003             | 2004             | 2005             |
| Incinerators <sup>(1)</sup> | MSW          | 681,147                | 670,380          | 669,718          | 632,880          | 636,072          | 646,621          | 697,634          | 647,911          | 622,348          |
|                             | NonMSW       | 28,183                 | 25,552           | 27,901           | 28,672           | 30,274           | 41,591           | 24,704           | 36,095           | 44,202           |
|                             | <b>TOTAL</b> | <b>709,330</b>         | <b>695,932</b>   | <b>697,619</b>   | <b>661,552</b>   | <b>666,346</b>   | <b>688,212</b>   | <b>722,338</b>   | <b>684,007</b>   | <b>666,550</b>   |
| Transfer Stations           | MSW          | 1,523,836              | 1,753,009        | 1,935,432        | 2,230,153        | 2,282,366        | 2,384,806        | 2,544,071        | 2,879,650        | 3,122,682        |
|                             | NonMSW       | 404,897                | 476,100          | 474,227          | 499,069          | 470,251          | 482,556          | 517,690          | 543,744          | 486,532          |
|                             | <b>TOTAL</b> | <b>1,928,733</b>       | <b>2,229,109</b> | <b>2,409,659</b> | <b>2,729,222</b> | <b>2,752,617</b> | <b>2,867,362</b> | <b>3,061,761</b> | <b>3,423,394</b> | <b>3,609,214</b> |

<sup>(1)</sup> Does not include small-capacity incinerators receiving less than 10 tons/day of solid waste or 7 tons/day of infectious waste.

## Solid Waste Incinerators

For reporting and permitting purposes, solid waste incinerators are regarded as processing facilities. For solid waste planning and fee purposes, incinerators are considered final disposal facilities. Table 15 provides a list of the permitted solid waste incinerators that operated in 2005 and the total amount of solid waste received by these facilities. The list does not include the small-capacity incinerators in Indiana that are not required to report to IDEM.

Annually, Covanta Energy Indianapolis Resource Recovery Facility receives roughly four percent of the total tonnage of waste either land disposed or incinerated in Indiana. From the waste received by Covanta during 2005, there was about 179,800 tons of ash produced and delivered to the Southside Landfill for disposal. The ash produced is equivalent to about 27 percent of the waste received at Covanta.

**Table 15.**  
**Total Waste Received by Incinerators During 2005<sup>(1)</sup>**

| <b>County Location of Facility</b> | <b>Facility Name</b>                           | <b>Waste Received in Tons</b> |
|------------------------------------|--|-------------------------------|
| Marion                             | Indianapolis Resource Recovery Facility        | 660,947                       |
| Posey                              | General Electric Ultem Thermal Oxidizer System | 5,603                         |
| <b>Total for All Incinerators</b>  |  | <b>666,550</b>                |

<sup>(1)</sup> Wishard Memorial Hospital Infectious Waste Incinerator closed in 2004.

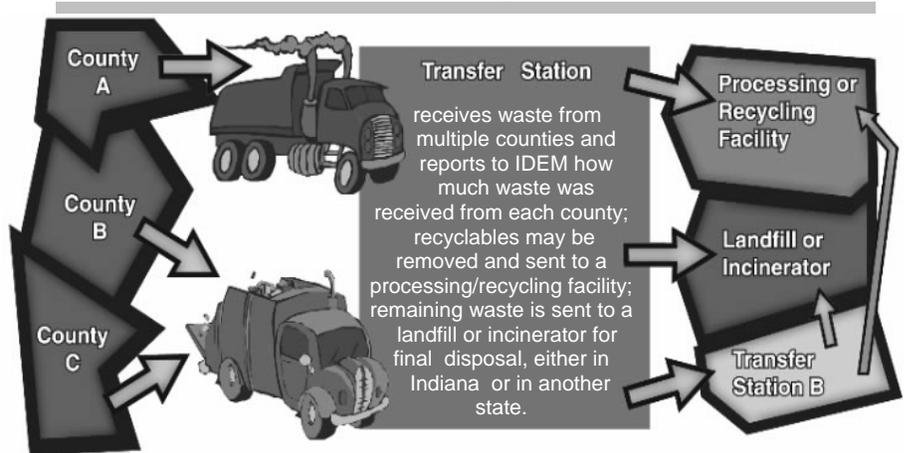
## Transfer Stations

Transfer stations are facilities that allow waste from individual collection vehicles to be offloaded and then reloaded into larger vehicles for transport to final disposal facilities. Some transfer stations recover recyclable materials and send them to processing or recycling facilities.

The accountability for differences in incoming and outgoing waste at transfer stations has improved over the years. Although for the first few years of quarterly reporting there was no mechanism to track such differences, reporting forms were improved to include materials recovery. Facilities are also required to submit written explanations if the difference between incoming and outgoing tonnage totals is due to a reason other than materials recovery. In most instances, these differences are the result of materials recovery or differences in volume-to-tons conversions.

As discussed on page 11, it is difficult to track the true origin of waste. Waste collection vehicles may

**Figure 13.**  
**Transfer Station Waste Management**



transport their waste directly to a landfill or they may take it to a transfer station. A landfill receiving waste from a transfer station documents it as originating from the county in which the transfer station is located, regardless of whether any of the waste was generated in that county. The issue is further complicated when the transfer station receives waste from two or more counties, mixes the loads in a central location, removes various recyclables, then transports the waste to two or more landfills, another transfer station and/or a recycling facility. Figure 13 illustrates how the tonnage received from the counties may be known, but the waste sent for final disposal or processing may not directly identify the point of origin.

**Table 16.**  
**Destination of Waste Sent from Transfer Stations for Final Disposal**

| Year | Total Tons Sent to All Facilities | To Indiana Facilities |            | To Out-of-State Facilities |            |
|------|-----------------------------------|-----------------------|------------|----------------------------|------------|
|      |                                   | Tonnage               | % of Total | Tonnage                    | % of Total |
| 1997 | 1,835,145                         | 1,629,723             | 88.8       | 205,422                    | 11.2       |
| 1998 | 2,131,526                         | 1,917,838             | 90.0       | 213,688                    | 10.0       |
| 1999 | 2,317,959                         | 2,059,268             | 88.8       | 258,691                    | 11.2       |
| 2000 | 2,577,813                         | 2,268,754             | 88.0       | 309,059                    | 12.0       |
| 2001 | 2,638,995                         | 2,303,805             | 87.3       | 335,190                    | 12.7       |
| 2002 | 2,737,515                         | 2,377,746             | 86.9       | 359,770                    | 13.1       |
| 2003 | 2,869,329                         | 2,488,397             | 86.7       | 380,932                    | 13.3       |
| 2004 | 3,175,236                         | 2,673,932             | 84.2       | 501,304                    | 15.8       |
| 2005 | 3,405,644                         | 2,863,320             | 84.1       | 542,324                    | 15.9       |

Quarterly reports from transfer stations currently provide the only source of systematic information on the amount of waste exported by Indiana. Table 16 shows the amount of waste sent out-of-state from transfer stations as compared with the amount of waste sent to Indiana final disposal facilities from 1997 to 2005. Figure 14 shows a more detailed breakdown of the destination information for 2005. This information does not provide a complete picture of Indiana waste exports because the totals in Table 16 are based only on information obtained from processing facility quarterly reports. The amount of waste hauled directly from an Indiana residence or business to an out-of-state destination is not adequately known due to reporting limitations.

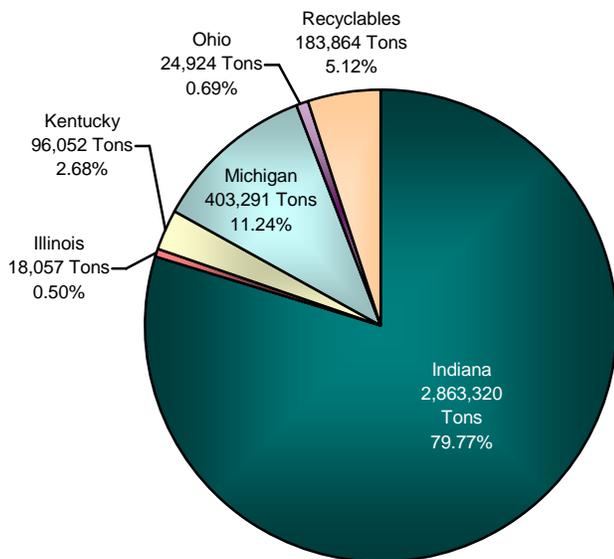
More detailed data for transfer stations is given in a separate report entitled “2005 Solid Waste Facility Profiles.”

## Other Processing Facilities

Other processing facilities permitted by IDEM could include paper and medical waste processing facilities. Three of the facilities operating during 2005 are classified under this category. In this report, these three facilities are included with the transfer stations.

IDEM issues permits to any solid waste processing facility upon which is located a solid waste incinerator, transfer station, solid waste baler, solid waste shredder, resource recovery system, or garbage grinding facility (as defined in 329 IAC 11-2-43, unless excluded by 329 IAC 11-3-1).

**Figure 14.**  
**Destination of Waste Sent from Transfer Stations During 2005**



# Out-of-State Waste

Solid waste imported from out-of-state sources can be received at landfills, incinerators, or transfer stations. Historically, the predominant states of origin for solid waste imports have been the four states contiguous to Indiana (Illinois, Michigan, Ohio, and Kentucky).

Out-of-state waste received by Indiana facilities increased by 32 percent from 1996 to 1998 to their highest level since totals were reported (over 2.7 million tons). In 1999, out-of-state waste receipts decreased by about one million tons and stayed steady through 2002. In 2003, out-of-state waste decreased again, accounting for 9 percent of the

waste disposed at all of Indiana’s disposal facilities and 13 percent of the waste disposed in MSW landfills.

In 2004, waste imports increased, accounting for 18 percent of the waste disposed at all of Indiana’s disposal facilities and 25 percent of the waste disposed in MSW landfills. This was more than double the 2003 imports. The increase was determined to be due to a landfill that closed at the end of 2003 in Cook County, Illinois. In 2005, waste imports increased again, bring the total to a new all time high.

**Figure 15.**  
**Annual Waste Imports by Region of Origin**

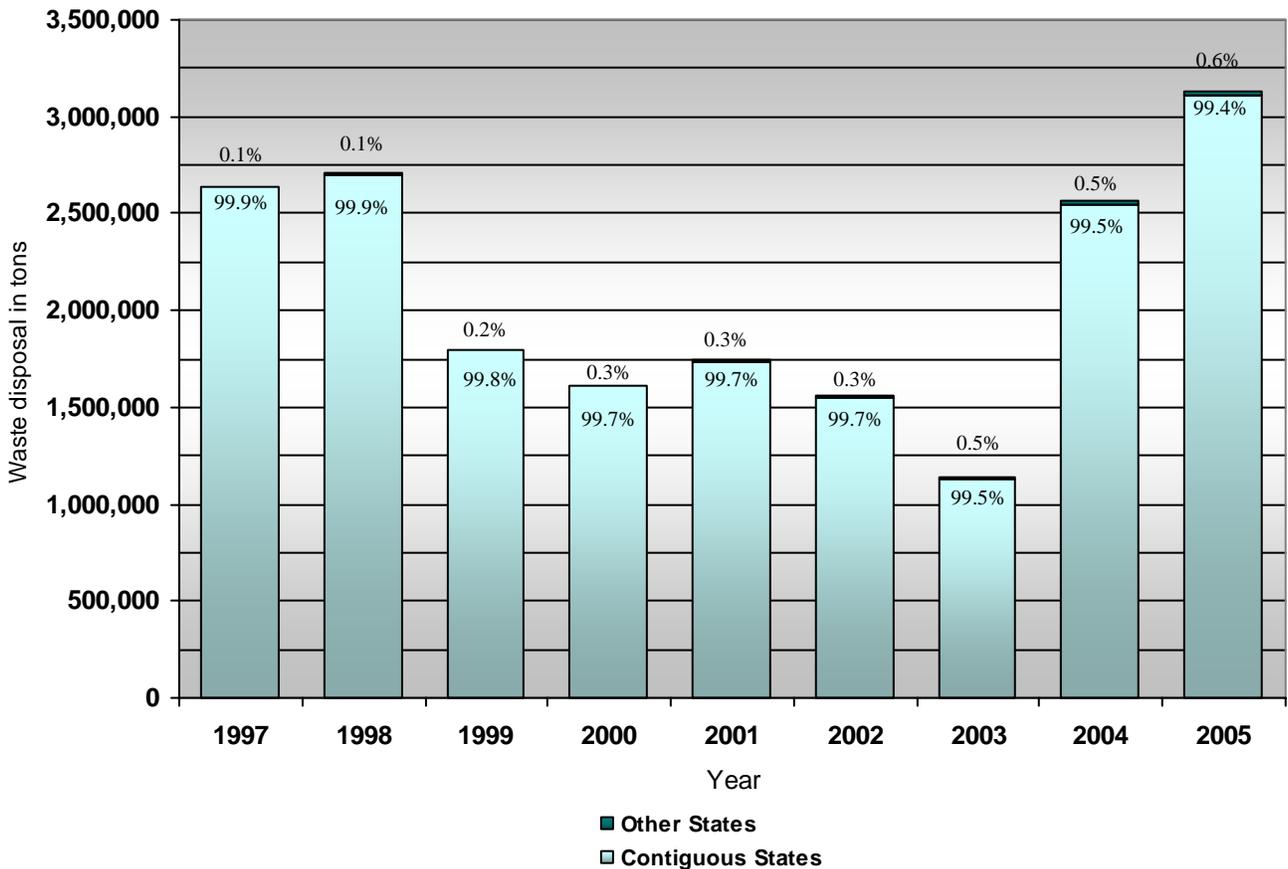


Table 17 details the state origin and amount of out-of-state waste received at Indiana solid waste facilities during 2005. Figure 16 shows this information from 1997 through 2005. Illinois has been historically the largest source of waste imported to Indiana. In 2005,

Illinois waste accounted for 87 percent of the out-of-state waste received by Indiana solid waste facilities. Ninety-six percent of that waste came from the Chicago area.

**Table 17.**  
**Out-of-State Waste Received During 2005<sup>(1)</sup>**

| <b>Total Tons: 3,127,479</b> |                  |                  |                |                         |              |
|------------------------------|------------------|------------------|----------------|-------------------------|--------------|
| <b>State</b>                 | <b>Tons</b>      | <b>State</b>     | <b>Tons</b>    | <b>State</b>            | <b>Tons</b>  |
| County Name                  | Received         | County Name      | Received       | County Name             | Received     |
| <b>ILLINOIS</b>              | <b>2,733,598</b> | <b>KENTUCKY</b>  | <b>141,365</b> | <b>MISSOURI (con't)</b> |              |
| CHAMPAIGN                    | 393              | BOONE            | 1,580          | SHELBY                  | 20           |
| CLARK                        | 363              | BRECKINRIDGE     | 4              | ST. CHARLES             | 261          |
| COOK                         | 2,624,219        | CARROLL          | 2              | ST. LOUIS               | 308          |
| CRAWFORD                     | 16,081           | CHRISTIAN        | 1              | <b>VIRGINIA</b>         | <b>1,224</b> |
| DU PAGE                      | 338              | CLARK            | 73             | FREDERICK               | 17           |
| EDGAR                        | 19,271           | DAVISS           | 180            | NEWPORT NEWS            | 472          |
| GRUNDY                       | 18               | FAYETTE          | 62             | PETERSBURG              | 242          |
| IROQUOIS                     | 338              | HARDIN           | 340            | RICHMOND CITY           | 494          |
| JASPER                       | 21               | HENDERSON        | 77,606         | <b>WEST VIRGINIA</b>    | <b>785</b>   |
| KANE                         | 7                | HENRY            | 1,601          | PUTNAM                  | 785          |
| KANKAKEE                     | 68,296           | HOPKINS          | 1              | <b>CALIFORNIA</b>       | <b>700</b>   |
| LA SALLE                     | 3                | JEFFERSON        | 57,677         | ALAMEDA                 | 389          |
| LAKE                         | 133              | JESSAMINE        | 627            | LOS ANGELES             | 6            |
| LAWRENCE                     | 523              | MARSHALL         | 1              | RIVERSIDE               | 305          |
| LIVINGSTON                   | 142              | MCLEAN           | 13             | <b>MISSISSIPPI</b>      | <b>343</b>   |
| MADISON                      | 191              | MEADE            | 8              | COAHOMA                 | 2            |
| MARION                       | 208              | MONTGOMERY       | 11             | DE SOTO                 | 288          |
| MASON                        | 182              | MUHLENBERG       | 5              | WASHINGTON              | 53           |
| MONTGOMERY                   | 11               | OLDHAM           | 9              | <b>NEW HAMPSHIRE</b>    | <b>213</b>   |
| PIKE                         | 17               | SCOTT            | 1,399          | MERRIMACK               | 213          |
| ST. CLAIR                    | 33               | WARREN           | 39             | <b>TEXAS</b>            | <b>150</b>   |
| TAZEWELL                     | 3                | WEBSTER          | 8              | DALLAS                  | 49           |
| VERMILION                    | 899              | WHITLEY          | 118            | HARRIS                  | 4            |
| WABASH                       | 64               | <b>MICHIGAN</b>  | <b>84,368</b>  | ORANGE                  | 34           |
| WARREN                       | 1                | BERRIEN          | 3,205          | TARRANT                 | 63           |
| WHITE                        | 122              | BRANCH           | 79,220         | <b>LOUISIANA</b>        | <b>115</b>   |
| WILL                         | 1,722            | CASS             | 1,826          | BOSSIER                 | 7            |
| <b>OHIO</b>                  | <b>148,709</b>   | HILLSDALE        | 11             | LINCOLN                 | 97           |
| ALLEN                        | 28               | JACKSON          | 14             | MOREHOUSE               | 6            |
| AUGLAIZE                     | 107              | KALAMAZOO        | 7              | ST. LANDRY              | 5            |
| CHAMPAIGN                    | 790              | MACOMB           | 8              | <b>KANSAS</b>           | <b>107</b>   |
| CLINTON                      | 35               | OAKLAND          | 10             | DONIPHAN                | 99           |
| CUYAHOGA                     | 205              | ST. JOSEPH       | 67             | JOHNSON                 | 9            |
| DARKE                        | 8,711            | <b>IOWA</b>      | <b>4,341</b>   | <b>COLORADO</b>         | <b>92</b>    |
| DEFIANCE                     | 4                | JOHNSON          | 4,267          | ARAPAHOE                | 12           |
| FRANKLIN                     | 479              | LEE              | 17             | WELD                    | 80           |
| GREENE                       | 1                | POLK             | 57             | <b>UTAH</b>             | <b>87</b>    |
| HAMILTON                     | 2,058            | <b>TENNESSEE</b> | <b>4,173</b>   | SALT LAKE               | 87           |
| MERCER                       | 11,323           | HAMILTON         | 7              | <b>MINNESOTA</b>        | <b>34</b>    |
| MIAMI                        | 96,000           | OBION            | 2              | HENNEPIN                | 15           |
| MONTGOMERY                   | 323              | RUTHERFORD       | 7              | RAMSEY                  | 13           |
| OTTAWA                       | 41               | SHELBY           | 4,156          | WASHINGTON              | 6            |
| PAULDING                     | 377              | TIPTON           | 1              | <b>ARIZONA</b>          | <b>31</b>    |
| PREBLE                       | 10               | <b>ARKANSAS</b>  | <b>4,102</b>   | MARICOPA                | 31           |
| PUTNAM                       | 11               | SALINE           | 4,102          | <b>PENNSYLVANIA</b>     | <b>21</b>    |
| SHELBY                       | 8,655            | <b>WISCONSIN</b> | <b>1,521</b>   | MONTGOMERY              | 21           |
| SUMMIT                       | 13               | BROWN            | 8              | <b>DELAWARE</b>         | <b>4</b>     |
| VAN WERT                     | 18,555           | SHEBOYGAN        | 3              | NEW CASTLE              | 4            |
| WARREN                       | 704              | WAUKESHA         | 1,510          | <b>MASSACHUSETTS</b>    | <b>3</b>     |
| WILLIAMS                     | 61               | <b>MISSOURI</b>  | <b>1,388</b>   | HAMPDEN                 | 3            |
| WOOD                         | 220              | CASS             | 98             | <b>NEBRASKA</b>         | <b>3</b>     |
|                              |                  | CHARITON         | 24             | DOUGLAS                 | 3            |
|                              |                  | CLAY             | 76             | <b>NEW YORK</b>         | <b>2</b>     |
|                              |                  | FRANKLIN         | 18             | ERIE                    | 2            |
|                              |                  | JACKSON          | 584            | <b>SOUTH CAROLINA</b>   | <b>0.2</b>   |
|                              |                  |                  |                | FLORENCE                | 0.2          |

<sup>(1)</sup> About 14,079 tons were sent back to out-of-state facilities by Indiana transfer stations.

**Figure 16.**  
**Annual Waste Imports by State of Origin**

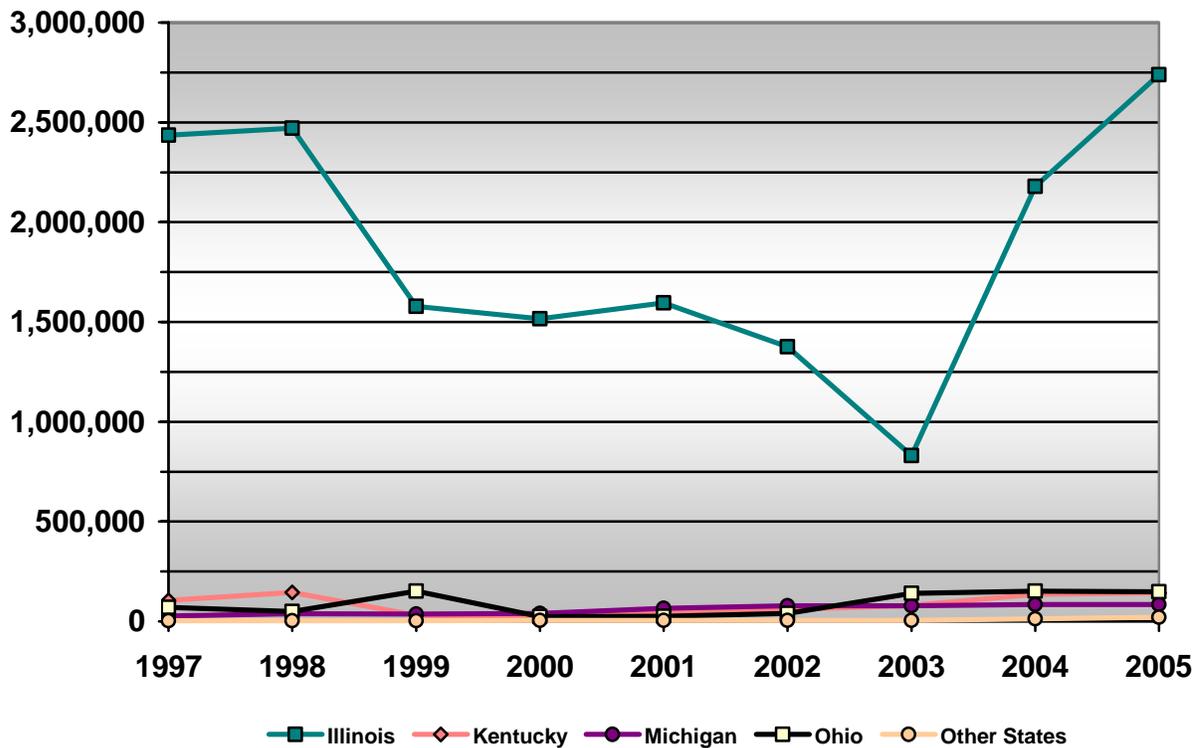


Table 18 displays the amount of out-of-state waste received by Indiana’s permitted solid waste facilities by each reported waste type during 2005. Table 19 displays similar information from 1997 through 2005 for municipal and non-municipal waste. MSW landfills have consistently received most of the waste imported from other states.

**Table 18.**  
**Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type During 2005**

| Waste Type           | Tons of Waste Received          |                                |              |                   |                |
|----------------------|---------------------------------|--------------------------------|--------------|-------------------|----------------|
|                      | Municipal Solid Waste Landfills | Construction/ Demolition Sites | Incinerators | Transfer Stations | All Facilities |
| <b>Municipal</b>     | 2,426,340                       | 0                              | 2,498        | 38,716            | 2,467,554      |
| <b>C/D</b>           | 283,373                         | 167,968                        | 0            | 200               | 451,341        |
| <b>Foundry</b>       | 4,275                           | 0                              | 0            | 0                 | 4,275          |
| <b>Coal Ash</b>      | 0                               | 0                              | 0            | 0                 | 0              |
| <b>FGD Waste</b>     | 0                               | 0                              | 0            | 0                 | 0              |
| <b>Other Non-MSW</b> | 172,331                         | 0                              | 30,057       | 1,921             | 204,309        |
| <b>Total</b>         | 2,886,119                       | 167,968                        | 32,555       | 40,837            | 3,127,479      |

Figure 17 shows that municipal solid waste historically has accounted for the largest percentage of waste imports. However, non-municipal waste imports increased considerably between 1995 and 1998. This increase might have been due to imports of waste materials to be used as alternative daily

cover by landfills. Alternative daily cover amounts have not been included as waste in this report since 1999. In 2004 and 2005, increases were seen again in non-municipal waste imports, which was more than likely due to the closed landfill in Illinois.

**Figure 17.**  
**Annual Amount of Out-of-State Waste Received by Solid Waste Facilities**

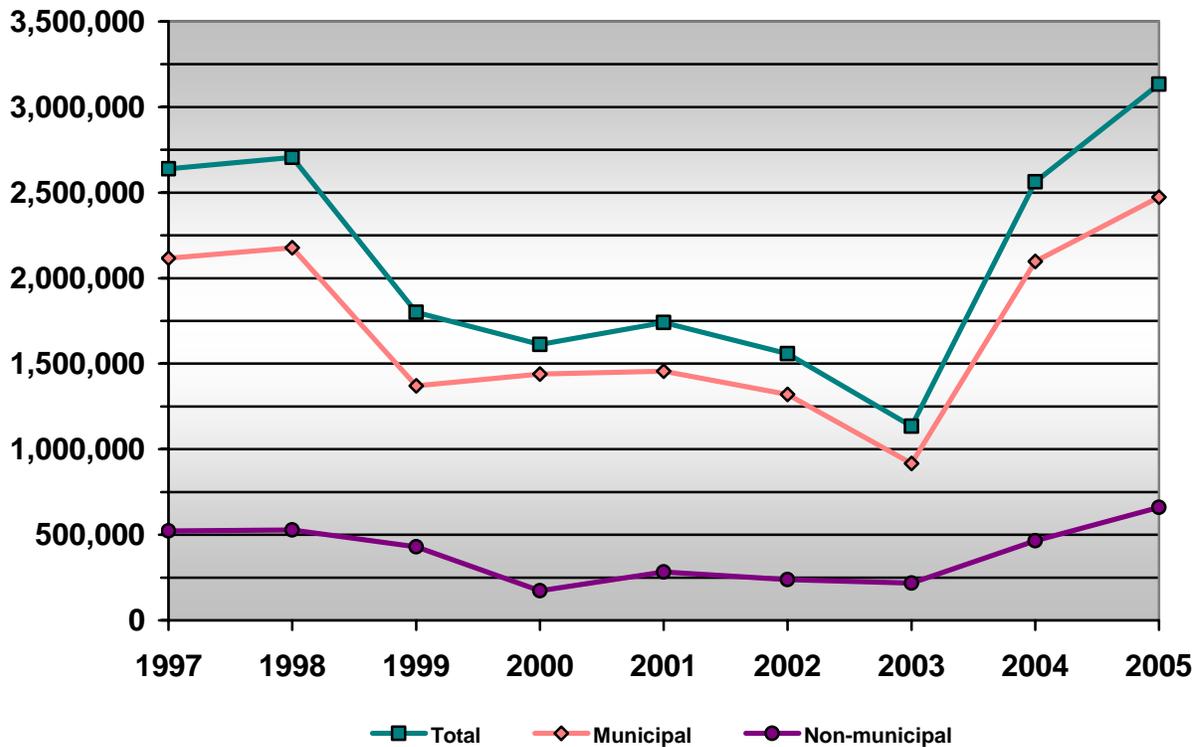


Table 19.

### Annual Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type

| Landfill Type                                  | Waste Type | Tons of Waste Disposed |           |           |           |           |           |           |           |           |
|--|------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  |            | 1997                   | 1998      | 1999      | 2000      | 2001      | 2002      | 2003      | 2004      | 2005      |
| Municipal Solid Waste Landfills <sup>(1)</sup> | MSW        | 2,100,837              | 2,153,579 | 1,336,984 | 1,412,547 | 1,390,868 | 1,249,114 | 863,363   | 2,047,762 | 2,426,340 |
|  | NonMSW     | 482,421                | 494,767   | 381,467   | 164,495   | 274,396   | 195,887   | 135,480   | 209,420   | 459,779   |
|  | TOTAL      | 2,583,258              | 2,648,346 | 1,718,451 | 1,577,042 | 1,665,264 | 1,445,001 | 998,843   | 2,257,182 | 2,886,119 |
| Construction/Demolition Sites                  | MSW        | 0                      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
|  | NonMSW     | 39,468                 | 29,234    | 23,578    | 1,560     | 1,416     | 21,428    | 64,573    | 226,016   | 167,968   |
|  | TOTAL      | 39,468                 | 29,234    | 23,578    | 1,560     | 1,416     | 21,428    | 64,573    | 226,016   | 167,968   |
| Non-Municipal Solid Waste Landfill             | MSW        | 0                      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
|  | NonMSW     | 0                      | 2,404     | 21,831    | 235       | 2,729     | 4,491     | 0         | 0         | 0         |
|  | TOTAL      | 0                      | 2,404     | 21,831    | 235       | 2,729     | 4,491     | 0         | 0         | 0         |
| Incinerators (nonhospital)                     | MSW        | 5,228                  | 5,488     | 11,603    | 9,851     | 11,815    | 1,345     | 211       | 1,723     | 2,498     |
|  | NonMSW     | 855                    | 1,505     | 1,303     | 1,396     | 897       | 14,451    | 16,410    | 25,315    | 30,057    |
|  | TOTAL      | 6,083                  | 6,993     | 12,906    | 11,247    | 12,712    | 15,796    | 16,621    | 27,038    | 32,555    |
| Transfer Stations <sup>(2)</sup>               | MSW        | 10,448                 | 17,988    | 22,520    | 17,093    | 54,016    | 69,136    | 54,104    | 48,605    | 38,716    |
|  | NonMSW     | 519                    | 737       | 683       | 4,724     | 3,641     | 2,078     | 736       | 4,721     | 2,121     |
|  | TOTAL      | 10,967                 | 18,725    | 23,203    | 21,817    | 57,657    | 71,214    | 54,840    | 53,326    | 40,837    |
| All Facilities                                 | MSW        | 2,116,513              | 2,177,055 | 1,371,107 | 1,439,491 | 1,456,699 | 1,319,595 | 917,679   | 2,098,090 | 2,467,553 |
|  | NonMSW     | 523,263                | 528,647   | 428,862   | 172,410   | 283,079   | 238,335   | 217,199   | 465,471   | 659,925   |
|  | TOTAL      | 2,639,776              | 2,705,702 | 1,799,969 | 1,611,901 | 1,739,778 | 1,557,930 | 1,134,878 | 2,563,561 | 3,127,478 |

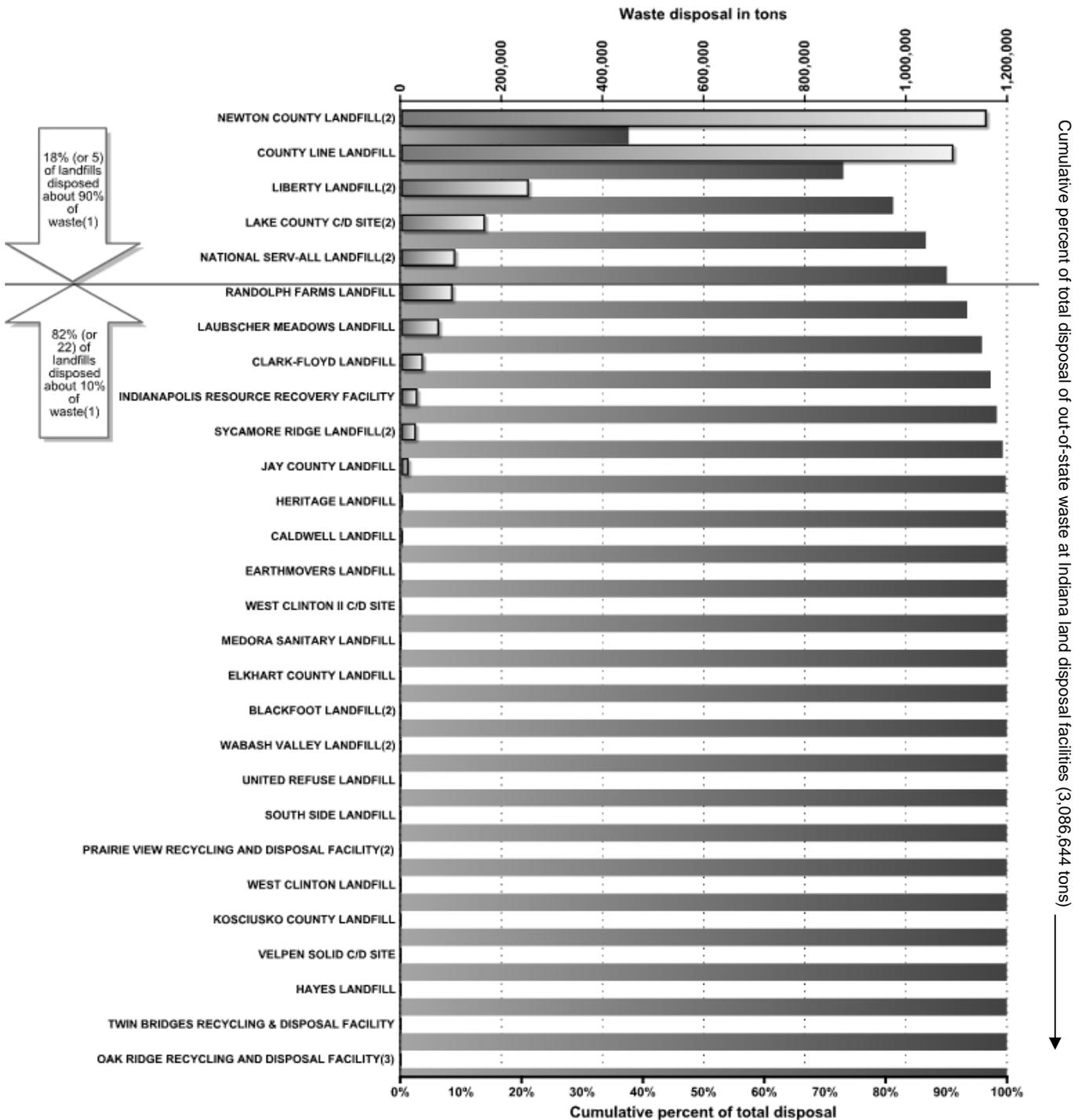
<sup>(1)</sup> This reflects only out-of-state waste shipped directly to MSW landfills. Most of the out-of-state waste received by transfer stations was sent to Indiana MSW landfills for final disposal. However, these MSW landfills reported the origin of this out-of-state waste as the county in which the transfer station was located, rather than the state in which the waste originated, in accordance with IDEM guidance.

<sup>(2)</sup> Out of state waste that was received by Indiana facilities then sent back out of state increased in 1994 to 13%. The percentage spiked in 1997 to 30% and again in 1998 to 45%. 1999 saw a slight decrease to 35% and in 2000 a significant decrease to 14%. In 2001, it decreased again to an all time low of 3%. The percentage began increasing in 2002 through 2005 where it's back up to 30%. Through the years, the majority of the waste has been filtered through the Clark County Transfer Station.

Figure 18 shows the distribution of the disposal of out-of-state waste among Indiana solid waste facilities. Of the 28 facilities that received out-of-state waste during 2005, five (18%) disposed of 90%

of that waste. Ninety-six percent of the imported waste received by these five facilities was from Illinois. The other 23 facilities (82%) disposed of the remaining 10% of the imported waste.

**Figure 18.**  
**Distribution of Disposal of Out-of-State Waste Disposed at Indiana Solid Waste Facilities During 2005**



(1) Percentages in the text boxes exclude facilities not taking out-of-state waste. Therefore, they do not correspond exactly with percentages in Figure 10.  
 (2) This landfill received out-of-state waste from Indiana transfer station(s).  
 (3) This landfill received out-of-state waste only from an Indiana transfer station.

Table 20 summarizes the annual amount of out-of-state waste received by Indiana's solid waste facilities during 2005. Table 21 provides a detailed look at the amount of waste that these facilities received from each state.

Although Indiana imports a considerable amount of solid waste, it also exports waste, primarily to

contiguous states. A brief discussion of waste exports was provided in the previous section on solid waste processing facilities (see page 27).

The "2005 Solid Waste Facility Profiles" provides more detailed summaries of waste imports to landfills, incinerators, and transfer stations.

**Table 20.**  
**Total Out-of-State Waste Received by Facility During 2005**

| County Location of Facility | Facility Name                                   | Type of Facility             | Tons of Out-of-State Waste Received |
|-----------------------------|---|------------------------------|-------------------------------------|
| Allen                       | National Serv-All Landfill                      | MSW Landfill                 | 107,496                             |
| Allen                       | United Refuse Landfill                          | MSW Landfill                 | 125                                 |
| Clark                       | Clark-Floyd Landfill                            | MSW Landfill                 | 43,822                              |
| Clark                       | Bi-Co Transfer Station                          | Transfer Station             | 13,021                              |
| Dekalb                      | Merritt Processing Facility                     | Transfer Station             | 7                                   |
| Elkhart                     | Earthmovers Landfill                            | MSW Landfill                 | 1,537                               |
| Elkhart                     | Elkhart County Landfill                         | MSW Landfill                 | 460                                 |
| Fulton                      | County Line Landfill                            | MSW Landfill                 | 1,092,741                           |
| Harrison                    | Gray's Disposal Service Transfer Station        | Transfer Station             | 8                                   |
| Hendricks                   | Twin Bridges Recycling & Disposal Facility      | MSW Landfill                 | 4                                   |
| Henry                       | Hayes Landfill                                  | MSW Landfill                 | 5                                   |
| Jackson                     | Medora Sanitary Landfill                        | MSW Landfill                 | 1,011                               |
| Jay                         | Jay County Landfill                             | MSW Landfill                 | 14,933                              |
| Knox                        | Jamax Transfer Station                          | Transfer Station             | 6,290                               |
| Kosciusko                   | Kosciusko County Landfill                       | MSW Landfill                 | 11                                  |
| Lake                        | Illiana Transfer #3                             | Transfer Station             | 47                                  |
| Lake                        | Illiana Transfer #1                             | Transfer Station             | 15,167                              |
| Lake                        | Lake County C/D Site                            | Construction/Demolition Site | 166,525                             |
| Lake                        | Waste Management Of NW Indiana Transfer Station | Transfer Station             | 502                                 |
| La Porte                    | Waste Management Of La Porte Transfer Station   | Transfer Station             | 2,393                               |
| Marion                      | South Side Landfill                             | MSW Landfill                 | 83                                  |
| Marion                      | Indianapolis Resource Recovery Facility         | Incinerator                  | 32,555                              |
| Newton                      | Newton County Landfill                          | MSW Landfill                 | 1,158,114                           |
| Noble                       | Kendallville Iron And Metal Transfer Station    | Transfer Station             | 34                                  |
| Pike                        | Blackfoot Landfill                              | MSW Landfill                 | 277                                 |
| Pike                        | Velpen Solid C/D Site                           | Construction/Demolition Site | 6                                   |
| Porter                      | Able Disposal Recycling & Transfer Station      | Transfer Station             | 739                                 |
| Putnam                      | Heritage Landfill                               | MSW Landfill                 | 2,885                               |
| Randolph                    | Randolph Farms Landfill                         | MSW Landfill                 | 102,298                             |
| St Joseph                   | Prairie View Recycling And Disposal Facility    | MSW Landfill                 | 74                                  |
| Shelby                      | Caldwell Landfill                               | MSW Landfill                 | 2,748                               |
| Vanderburgh                 | Laubscher Meadows Landfill                      | MSW Landfill                 | 75,318                              |
| Vanderburgh                 | Materials Recycling And Transfer Station        | Transfer Station             | 2,284                               |
| Vermillion                  | West Clinton II C/D Site                        | Construction/Demolition Site | 1,437                               |
| Vermillion                  | West Clinton Landfill                           | MSW Landfill                 | 15                                  |
| Vigo                        | Sycamore Ridge Landfill                         | MSW Landfill                 | 29,335                              |
| Wabash                      | Wabash Valley Landfill                          | MSW Landfill                 | 197                                 |
| Warren                      | Tri-County Transfer Station                     | Transfer Station             | 344                                 |
| White                       | Liberty Landfill                                | MSW Landfill                 | 252,630                             |
| Total for All Facilities    |   |                              | 3,127,479                           |

Table 21.

## Out-of-State Waste Received by Indiana Solid Waste Facilities During 2005

| County                          | Facility Name                                | Facility Type                    | /-----Contiguous States-----/ |                |               |                | Other States  | Total Tons       | % of Tons |
|---------------------------------|--|----------------------------------|-------------------------------|----------------|---------------|----------------|---------------|------------------|-----------|
|                                 |  |                                  | IL                            | KY             | MI            | OH             |               |                  |           |
| Allen                           | National Serv-All Landfill                   | MSW Landfill                     | 1,973                         |                | 79,025        | 26,498         |               | 107,496          | 3.4%      |
| Allen                           | United Refuse Landfill                       | MSW Landfill                     | 20                            |                | 74            | 31             |               | 125              | 0.0%      |
| Clark                           | Clark-Floyd Landfill                         | MSW Landfill                     |                               | 43,822         |               |                |               | 43,822           | 1.4%      |
| Clark                           | Bi-Co Transfer Station                       | Transfer Station                 |                               | 13,021         |               |                |               | 13,021           | 0.4%      |
| Dekalb                          | Merritt Processing Facility                  | Transfer Station                 |                               |                |               | 7              |               | 7                | 0.0%      |
| Elkhart                         | Earthmovers Landfill                         | MSW Landfill                     |                               |                | 1,537         |                |               | 1,537            | 0.0%      |
| Elkhart                         | Elkhart County Landfill                      | MSW Landfill                     |                               |                | 362           |                | 98            | 460              | 0.0%      |
| Fulton                          | County Line Landfill                         | MSW Landfill                     | 1,092,741                     |                |               |                |               | 1,092,741        | 34.9%     |
| Harrison                        | Gray's Disposal Service Transfer Station     | Transfer Station                 |                               | 8              |               |                |               | 8                | 0.0%      |
| Hendricks                       | Twin Bridges Recycling & Disposal Facility   | MSW Landfill                     | 4                             |                |               |                |               | 4                | 0.0%      |
| Henry                           | Hayes Landfill                               | MSW Landfill                     |                               |                |               | 5              |               | 5                | 0.0%      |
| Jackson                         | Medora Sanitary Landfill                     | MSW Landfill                     |                               | 873            |               | 137            |               | 1,011            | 0.0%      |
| Jay                             | Jay County Landfill                          | MSW Landfill                     |                               |                |               | 14,933         |               | 14,933           | 0.5%      |
| Knox                            | Jamax Transfer Station                       | Transfer Station                 | 6,290                         |                |               |                |               | 6,290            | 0.2%      |
| Kosciusko                       | Kosciusko County Landfill                    | MSW Landfill                     |                               |                | 1             | 10             |               | 11               | 0.0%      |
| Lake                            | Illiana Transfer #3                          | Transfer Station                 | 47                            |                |               |                |               | 47               | 0.0%      |
| Lake                            | Illiana Transfer #1                          | Transfer Station                 | 15,167                        |                |               |                |               | 15,167           | 0.5%      |
| Lake                            | Lake County C/D Site                         | Construction/<br>Demolition Site | 166,525                       |                |               |                |               | 166,525          | 5.3%      |
| Lake                            | Waste Management Of NW Indiana               | Transfer Station                 | 502                           |                |               |                |               | 502              | 0.0%      |
| LaPorte                         | Waste Management Of LaPorte Transfer Station | Transfer Station                 |                               |                | 2,393         |                |               | 2,393            | 0.1%      |
| Marion                          | South Side Landfill                          | MSW Landfill                     | 82                            | 1              |               |                |               | 83               | 0.0%      |
| Marion                          | Indianapolis Resource Recovery Facility      | Incinerator                      | 4,482                         | 5,679          | 19            | 4,636          | 17,739        | 32,555           | 1.0%      |
| Newton                          | Newton County Landfill                       | MSW Landfill                     | 1,158,114                     |                |               |                |               | 1,158,114        | 37.0%     |
| Noble                           | Kendallville Iron And Metal Transfer Station | Transfer Station                 |                               |                | 34            |                |               | 34               | 0.0%      |
| Pike                            | Blackfoot Landfill                           | MSW Landfill                     | 41                            | 236            |               |                |               | 277              | 0.0%      |
| Pike                            | Velpen Solid C/D Site                        | Construction/<br>Demolition Site |                               | 6              |               |                |               | 6                | 0.0%      |
| Porter                          | Able Disposal Recycling & Transfer Station   | Transfer Station                 | 76                            |                | 664           |                |               | 739              | 0.0%      |
| Putnam                          | Heritage Landfill                            | MSW Landfill                     | 1,123                         | 66             | 11            | 85             | 1,600         | 2,885            | 0.1%      |
| Randolph                        | Randolph Farms Landfill                      | MSW Landfill                     |                               |                |               | 102,298        |               | 102,298          | 3.3%      |
| St Joseph                       | Prairie View Recycling And Disposal Facility | MSW Landfill                     |                               |                | 74            |                |               | 74               | 0.0%      |
| Shelby                          | Caldwell Landfill                            | MSW Landfill                     | 2,628                         | 74             |               | 46             |               | 2,748            | 0.1%      |
| Vanderburgh                     | Laubscher Meadows Landfill                   | MSW Landfill                     |                               | 75,318         |               |                |               | 75,318           | 2.4%      |
| Vanderburgh                     | Materials Recycling And Transfer Station     | Transfer Station                 | 23                            | 2,261          |               |                |               | 2,284            | 0.1%      |
| Vermillion                      | West Clinton II C/D Site                     | Construction/<br>Demolition Site | 1,437                         |                |               |                |               | 1,437            | 0.0%      |
| Vermillion                      | West Clinton Landfill                        | MSW Landfill                     | 15                            |                |               |                |               | 15               | 0.0%      |
| Vigo                            | Sycamore Ridge Landfill                      | MSW Landfill                     | 29,335                        |                |               |                |               | 29,335           | 0.9%      |
| Wabash                          | Wabash Valley Landfill                       | MSW Landfill                     |                               |                | 175           | 22             |               | 197              | 0.0%      |
| Warren                          | Tri-County Transfer Station                  | Transfer Station                 | 344                           |                |               |                |               | 344              | 0.0%      |
| White                           | Liberty Landfill                             | MSW Landfill                     | 252,630                       |                |               |                |               | 252,630          | 8.1%      |
| <b>Total for All Facilities</b> |  |                                  | <b>2,733,599</b>              | <b>141,365</b> | <b>84,368</b> | <b>148,709</b> | <b>19,437</b> | <b>3,127,479</b> |           |

**Figure 19.**  
**Origin of Waste Disposed and Incinerated in Indiana During 2005**

| Total Waste Disposed and Incinerated in Indiana |                   |
|---|-------------------|
| Number of Final Disposal Facilities             | Tons              |
| <b>60</b>                                       | <b>15,753,984</b> |



| Total Waste Received from Indiana Sources |                   |                  | Total Waste Received from Out-of-State <sup>(1)</sup> |                  |                  |
|---|-------------------|------------------|---|------------------|------------------|
| Number of Final Disposal Facilities       | Tons              | % of Total Waste | Number of Final Disposal Facilities                   | Tons             | % of Total Waste |
| <b>60</b>                                 | <b>12,667,342</b> | <b>80.41%</b>    | <b>27</b>   | <b>3,086,642</b> | <b>19.59%</b>    |

| Total Waste Received from Contiguous States   |                  |                          |  |
|---|------------------|--------------------------|--|
| Number of Final Disposal Facilities   | Tons             | % of OOSW <sup>(2)</sup> |  |
| <b>27</b>   | <b>3,067,205</b> | <b>99.37%</b>            |  |
| <b>Illinois</b>   |                  |                          |  |
|  Number of Final Disposal Facilities Receiving Waste  | Tons             | % of OOSW <sup>(2)</sup> |  |
| <b>15</b>   | <b>2,711,150</b> | <b>87.83%</b>            |  |
| <b>Kentucky</b>   |                  |                          |  |
|  Number of Final Disposal Facilities Receiving Waste  | Tons             | % of OOSW <sup>(2)</sup> |  |
| <b>9</b>  | <b>126,075</b>   | <b>4.08%</b>             |  |
| <b>Michigan</b>   |                  |                          |  |
|  Number of Final Disposal Facilities Receiving Waste | Tons             | % of OOSW <sup>(2)</sup> |  |
| <b>9</b>  | <b>81,278</b>    | <b>2.63%</b>             |  |
| <b>Ohio</b>   |                  |                          |  |
|  Number of Final Disposal Facilities Receiving Waste  | Tons             | % of OOSW <sup>(2)</sup> |  |
| <b>11</b>   | <b>148,702</b>   | <b>4.82%</b>             |  |

| Total Waste Received from Non-contiguous States     |               |                          |  |
|---|---------------|--------------------------|--|
| Number of Final Disposal Facilities                 | Tons          | % of OOSW <sup>(2)</sup> |  |
| <b>3</b>  | <b>19,437</b> | <b>0.63%</b>             |  |
| <b>Midwest States</b>                               |               |                          |  |
| Number of Final Disposal Facilities Receiving Waste | Tons          | % of OOSW <sup>(2)</sup> |  |
| <b>3</b>  | <b>7,393</b>  | <b>0.24%</b>             |  |
| <b>Other States</b>                                 |               |                          |  |
| Number of Final Disposal Facilities Receiving Waste | Tons          | % of OOSW <sup>(2)</sup> |  |
| <b>2</b>  | <b>12,045</b> | <b>0.39%</b>             |  |

<sup>(1)</sup> Excludes an estimated 14,079 tons of out-of-state waste received by Indiana transfer stations to out-of-state final disposal facilities.

<sup>(2)</sup> OOSW means Out-of-State Waste.

# Remaining Municipal Solid Waste Landfill Capacity

Beginning in 1996, MSW landfills are required to conduct an annual survey of the landfill between October 1 and December 31 of each year. The results of the survey go into creating a contour map that indicates the boundaries of the landfill as well as the elevation of the waste in-place within the boundaries of the landfill at the time of the survey. The contour maps are submitted to IDEM to determine remaining landfill capacity.

Table 22 provides an overview of Indiana’s remaining MSW landfill capacity. The total Indiana landfill capacity is the sum of the remaining capacity for all MSW landfills, estimated to be just under 243 million cubic yards. The overall remaining landfill life is calculated by taking the total remaining capacity divided by the total waste received in 2005; which is estimated to be 14.41 years. For comparison, the average landfill life is 18.21 years.

In 2004, the total remaining capacity for all Indiana MSW landfills was estimated to be 170,663,435.07 cubic yards. The remaining life for all Indiana MSW landfills (based upon the 2004 volume of waste received) was estimated to be 11.02 years. The average landfill life was 17.37 years.

It is important to note the variability in both waste intake rate and remaining airspace available for waste intake among individual landfills. The remaining disposal life of a landfill depends on both factors. In the same way, Indiana’s total remaining disposal life depends on the sum of all landfill capacities and the total waste disposed in the state each year. The remaining disposal life of individual landfills varies greatly from one facility to the other, as evident in Table 23. This variation is due to three factors:

- varying amount of waste received (intake rate) for each landfill,
- age of the landfill, and
- expansions made during the life of the landfill.

Figure 20 illustrates the comparison of the relative remaining capacities at each MSW landfill in Indiana. The map indicates the general location of each MSW Landfill and the corresponding range of remaining capacity that each one fits in.

**Table 22.**  
**2005 Total Municipal Solid Waste Landfill Remaining Capacity and Life**

|   |                                   |
|---|-----------------------------------|
| <b>Total Remaining Capacity</b>             | <b>242,879,460.34 cubic yards</b> |
| Waste Received at MSW Landfills During 2005 | 11,239,307.33 tons                |
|   | 16,858,961.00 cubic yards         |
| <b>Total Remaining Life</b>                 | <b>14.41 years</b>                |
| Average Remaining Life                      | 18.21 years                       |

Table 23.

**2005 Remaining Landfill Capacity and Life by Permitted Municipal Solid Waste Landfill**

| County Location Of Facility | Facility Name                             | Remaining Capacity <sup>(1)</sup><br>(cu yd) | Remaining Life <sup>(2)</sup><br>(years) |
|-----------------------------|---|--|--|
| Allen                       | National Serv-All Landfill <sup>(6)</sup> | 33,617,434.52                                | 30.40                                    |
| Allen                       | United Refuse Landfill                    | 249,853.12                                   | 6.34                                     |
| Bartholomew                 | Bartholomew County Landfill II            | 5,405,113.72                                 | 48.50                                    |
| Cass                        | Oak Ridge RDF                             | 3,408,989.25                                 | 12.13                                    |
| Clark                       | Clark-Floyd Landfill                      | 1,478,131.74                                 | 5.30                                     |
| Clinton                     | Clinton County Landfill                   | 505,860.75                                   | 3.82                                     |
| Daviess                     | Daviess County Landfill                   | 992,028.73                                   | 24.28                                    |
| Decatur                     | Decatur Hills Landfill                    | 6,252,744.06                                 | 30.66                                    |
| Elkhart                     | Earthmovers Landfill                      | 5,650,915.56                                 | 14.15                                    |
| Elkhart                     | Elkhart County Landfill                   | 10,343,588.22                                | 39.75                                    |
| Fulton                      | County Line Landfill                      | 14,236,202.44                                | 7.91                                     |
| Greene                      | Worthington Landfill <sup>(3)</sup>       | 3,701,799.72                                 |  |
| Hendricks                   | Twin Bridges RDF <sup>(6)</sup>           | 18,406,403.86                                | 14.55                                    |
| Henry                       | Hayes Landfill                            | 2,533,885.78                                 | 29.58                                    |
| Huntington                  | Huntington City Landfill                  | 1,023,638.23                                 | 31.05                                    |
| Jackson                     | Medora Sanitary Landfill                  | 215,283.08                                   | 1.60                                     |
| Jay                         | Jay County Landfill                       | 620,750.98                                   | 2.32                                     |
| Kosciusko                   | Kosciusko County Landfill                 | 285,497.25                                   | 1.81                                     |
| Marion                      | South Side Landfill <sup>(6)</sup>        | 10,599,509.89                                | 7.73                                     |
| Martin                      | Crane NSWC Landfill                       | 27,871.47                                    | 5.97                                     |
| Monroe                      | Monroe County Landfill <sup>(4)</sup>     | 313,925.79                                   |  |
| Newton                      | Newton County Landfill <sup>(6)</sup>     | 28,663,002.29                                | 11.52                                    |
| Pike                        | Blackfoot Landfill                        | 10,216,710.26                                | 25.85                                    |
| Putnam                      | Heritage Landfill                         | 3,247,935.13                                 | 25.99                                    |
| Randolph                    | Randolph Farms Landfill <sup>(6)</sup>    | 10,949,670.35                                | 22.04                                    |
| St Joseph                   | Prairie View RDF                          | 10,565,829.20                                | 21.19                                    |
| Shelby                      | Caldwell Landfill                         | 1,152,526.16                                 | 3.83                                     |
| Sullivan                    | Sullivan County Landfill <sup>(5)</sup>   | 2,323,195.00                                 |  |
| Vanderburgh                 | Laubscher Meadows Landfill                | 7,647,462.06                                 | 13.30                                    |
| Vermillion                  | West Clinton Landfill <sup>(5)</sup>      | 15,000.00                                    | 15.11                                    |
| Vigo                        | Sycamore Ridge Landfill                   | 21,300,957.56                                | 12.67                                    |
| Wabash                      | Wabash Valley Landfill                    | 12,059,333.06                                | 21.84                                    |
| Washington                  | Washington County Landfill                | 946,414.99                                   | 29.88                                    |
| Wayne                       | New Paris Pike Landfill                   | 7,398,005.87                                 | 53.97                                    |
| White                       | Liberty Landfill                          | 6,523,990.28                                 | 7.53                                     |

<sup>(1)</sup> Remaining capacity is remaining air space (15% daily cover & final cover volume removed) as of Dec 31, 2005

<sup>(2)</sup> Remaining life calculated at current waste intake rates using a 1.5 cy/ton conversion

<sup>(3)</sup> Site temporarily closed in 2005; received no waste

<sup>(4)</sup> No waste intake in 2005

<sup>(5)</sup> Remaining capacity was supplied by landfill

<sup>(6)</sup> Major modification in 2005 (A major permit of a solid waste land disposal facility means those facility changes that increase the capacity of a solid waste land disposal or processing facility by the lesser of 10% or 500,000 cubic yards, or change a land disposal facility's solid waste boundary by more than one acre.)

**Figure 20.**  
**2005 Remaining Landfill Capacity for Permitted Municipal Solid Waste Landfills by Location and Range of Value**

