

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

# 2007 SOLID WASTE FACILITIES ANNUAL REPORT



The *2007 Summary of Indiana Solid Waste Facility Data* is the sixteenth 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 *2007 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 Data Services Section.

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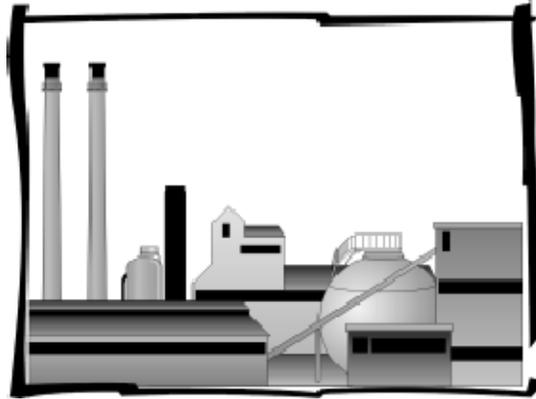
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# Introduction

This report is the sixteenth 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 2007 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.



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. Beginning in 2007, landfills are now required to conduct surveys between December 1 and March 31, and submit the maps to IDEM June 15. This information can be found beginning on page 37.

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.

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 *2007 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 (317)233-4624
Processing facility quarterly reports	Origin, type, and tonnage of solid waste received and destination information.*	Michelle Weddle (317)233-4624
Composting facility annual reports	Type and volume of compost received and processed*	Michelle Weddle (317)233-4624
Transfer station inspection annual reports	Results from inspections of incoming waste.	Nannette Landes (317)308-3040
Waste tire storage facility processors and transporters annual reports	On-site summary of incoming and outgoing tires.	Debby Baker (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 Weinkauf (317)308-3019
Indiana MSW landfill disposal capacity reports	Remaining air space and disposal space at Indiana land disposal facilities.	Nick Staller (317)234-3478
Solid waste management fee reports (IDOR)	Monthly reports showing fees collected for solid waste disposed at final disposal facilities.	Bob McGurer (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 (317)234-3478
Solid waste management district annual reports	Information on district programs and activities.	Monica Hartke-Tarr (317)233-5431
Permitted solid waste facilities list	List of permitted solid waste facilities in Indiana.*	Debby Baker (317)232-0066

\* Online search and/or data download available at: <http://www.IN.gov/idem/4998.htm>

# 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

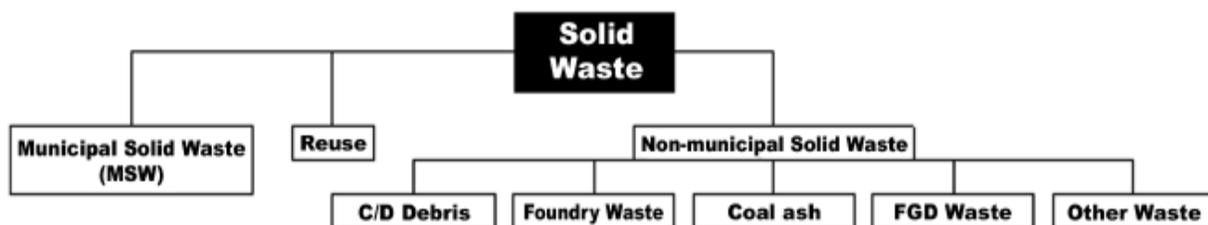
Solid waste facilities in Indiana fall into two broad permit categories: land disposal facilities and processing facilities. **Land disposal facilities** are subdivided further into four types: municipal solid waste landfills, construction-demolition sites, restricted waste sites (types 1 through 4), 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 2007. 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> - Single- and multi-family units - Other (campgrounds, parks, etc.) <b>Commercial</b> - Retail and wholesale - Service industry <b>Institutional</b> - Prisons, hospitals, schools, and universities - Government sector <b>Industrial non-process</b> - Offices, lunchrooms, restrooms	- Consumer goods - Packaging wastes - Food wastes - Office wastes - Yard trimmings / vegetation - Appliances - Automobile parts - Rinsed pesticide containers - Small animal carcasses - Household medical wastes - Household hazardous wastes (includes oil, batteries, etc.) - CESQG wastes	- Treated infectious wastes - Medical wastes - Waste tires - Used pallets - Cardboard - Furniture - 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> - Construction industry - Demolition companies	- Untaminated solid waste resulting from the construction, remodeling, repair or demolition of structures (e.g.: scrap lumber, wallboard) - Non-asbestos insulation	- Roofing materials - Plumbing and electrical fixtures - 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 - Fly ash, bottom ash, etc. - Ash resulting from the combustion of coal	
<b>FGD Waste</b>	<b>Flue Gas Desulfurization Byproducts</b>	- Scrubber / FGD sludge - Pollution control sludge resulting from coal combustion	
<b>Other</b>	<b>Other</b> - 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.) - Asbestos-containing wastes - Pollution control, spill cleanup wastes	- Oil / gas/ mining wastes - Incinerator residues - Low-level PCB wastes - Railroad ties
<b>Reuse (landfills only)</b>	<b>Reuse</b> - Waste utilized for construction in a landfill	- Alternate daily cover - Road construction - 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 2007**

<b>A. Land Disposal Facilities</b>		<b>B. Processing Facilities</b>	
<b>Municipal Solid Waste Landfills</b>	<b>35</b>	<b>Solid Waste Incinerators<sup>(4)</sup></b>	<b>2</b>
• Privately Owned	25	• Municipal	1
• Publicly Owned <sup>(1)</sup>	10	• Industrial <sup>(3)</sup>	1
<b>Construction-Demolition Sites<sup>(1)</sup></b>	<b>9</b>	<b>Transfer Stations</b>	<b>59</b>
<b>Restricted Waste Sites<sup>(2)</sup></b>	<b>17</b>	• Privately Owned <sup>(5)</sup>	43
<b>Non-municipal Solid Waste Landfills<sup>(3)</sup></b>	<b>1</b>	• Publicly Owned	16
<b>TOTAL</b>	<b>62</b>	<b>TOTAL</b>	<b>61</b>

(1) Some facilities are captive sites.

(2) Most facilities are captive sites.

(3) Facilities are captive sites.

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

(5) Six of the facilities are classified as other processing facilities

**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

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

(2) 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 2007, nine processing facilities were in operation during the year.

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

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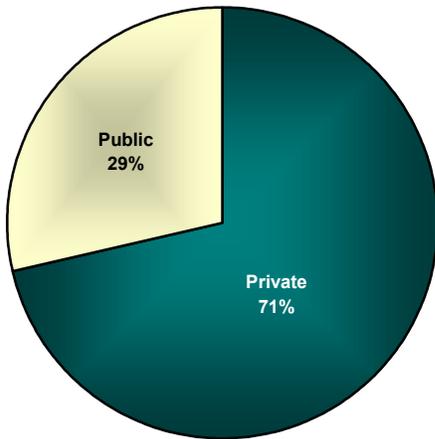
IDEM conservatively estimates that municipal solid waste tonnages may be over-reported by 20 to 40 percent due to some loads of municipal solid waste being mixed with non-municipal solid waste but identified only as municipal solid waste. According to studies in other states, construction-demolition 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 2007.

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

**Figure 2.**  
**Municipal Solid Waste Landfill Ownership by Percent During 2007**



*Note: For 2007, there are 10 publicly owned facilities and 25 privately owned facilities.*

## Origin of Waste

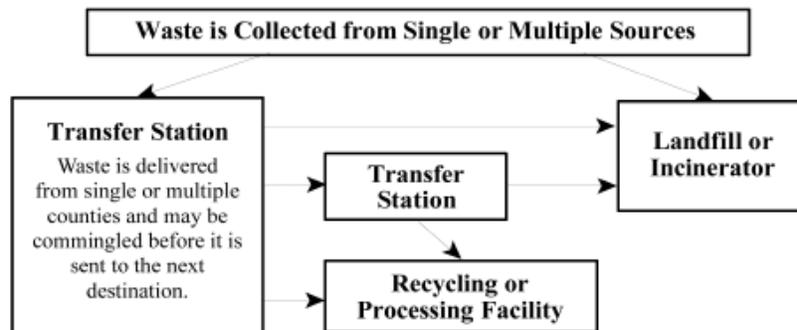
Origin of waste can be broken down by state and by county. A discussion of out-of-state waste is provided beginning on page 28.

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>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Adams	46,647	35,183	31,835	36,833	47,406	49,534	47,729	47,708	37,876
Allen	532,067	563,565	529,213	475,877	493,847	495,951	471,596	557,997	481,459
Bartholomew	170,936	168,640	138,449	144,879	103,590	91,640	103,597	100,761	105,604
Benton	2,429	1,768	2,342	2,179	1,949	1,191	1,153	694	507
Blackford	30,049	18,025	15,813	17,597	31,461	24,582	26,341	25,342	21,918
Boone	88,067	79,787	67,908	82,369	69,514	66,930	66,016	95,349	69,834
Brown	7,414	5,680	5,009	4,240	5,563	6,041	7,933	7,879	7,955
Carroll	22,294	21,530	24,437	21,492	20,820	18,698	15,072	14,085	16,213
Cass	46,347	44,244	58,014	44,333	49,415	48,479	43,385	47,754	43,962
Clark	81,612	98,511	89,357	79,744	73,544	88,358	107,665	113,052	130,649
Clay	27,370	28,258	19,236	22,715	23,013	26,429	25,852	25,245	24,447
Clinton	40,673	49,343	48,602	48,716	45,607	51,854	51,856	42,331	41,543
Crawford	4,716	1,412	1,299	1,361	1,223	1,861	6,081	2,523	5,279
Daviess	26,620	33,003	24,943	23,028	27,316	24,477	29,211	28,096	34,424
Dearborn	2,047	9,124	895	1,555	1,198	509	512	839	1,010
Decatur	26,186	28,521	31,507	30,840	33,129	30,451	28,658	34,751	35,180
DeKalb	130,392	151,427	139,531	152,390	126,868	51,236	41,314	58,416	40,202
Delaware	126,859	154,664	139,272	154,054	148,748	164,217	153,745	149,093	142,089
Dubois	48,287	57,241	58,420	37,615	43,161	63,088	62,581	57,651	55,297
Elkhart	501,018	413,623	396,569	373,738	384,136	408,603	433,305	453,693	409,835
Fayette	17,294	17,493	17,969	19,224	20,820	19,907	18,857	18,536	18,920
Floyd	58,657	56,326	49,136	32,263	29,586	25,370	22,516	22,609	29,643
<b>County</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Fountain	44,248	44,952	54,349	55,323	52,168	71,542	95,361	99,562	135,358
Franklin	4,300	5,468	7,804	6,532	5,562	6,071	8,067	7,699	7,052
Fulton	50,356	39,723	34,502	25,096	27,309	32,553	30,236	30,989	28,616
Gibson	945,627	1,038,734	1,102,377	1,212,387	1,001,323	1,026,286	1,012,977	120,217	895,727
Grant	104,116	86,924	91,298	82,840	80,030	81,485	87,506	87,342	83,934
Greene	23,605	24,112	21,758	25,024	27,281	26,566	24,600	22,438	22,613
Hamilton	261,592	168,933	164,178	197,831	231,298	265,622	303,887	306,424	278,876
Hancock	115,518	120,722	103,938	121,638	116,343	89,672	88,072	102,137	80,644
Harrison	314	473	1,825	3,080	28,817	2,582	4,756	6,031	6,576
Hendricks	141,111	151,346	144,364	190,277	216,369	242,244	244,592	274,699	276,635
Henry	76,231	62,868	65,101	66,298	62,376	71,183	63,308	58,367	75,314
Howard	157,698	188,929	161,842	140,215	147,439	103,928	113,074	114,407	115,653
Huntington	38,263	41,292	62,478	61,618	44,952	42,924	41,796	51,362	44,255
Jackson	55,609	59,808	58,622	61,142	54,063	63,712	65,653	62,787	61,447
Jasper	166,873	168,003	163,210	174,913	181,972	176,349	203,323	187,279	202,477
Jay	47,752	23,032	25,997	32,009	28,084	21,768	23,012	25,638	23,708
Jefferson	69,832	126,774	111,541	144,881	105,274	114,109	148,744	175,037	112,663
Jennings	20,760	19,987	23,374	21,987	22,190	22,400	31,861	37,274	30,849
Johnson	149,403	161,435	176,820	186,809	197,351	178,716	188,847	209,939	193,967
Knox	52,723	60,216	67,999	56,611	61,158	65,694	76,156	80,125	83,268
Kosciusko	232,641	226,065	203,843	177,684	227,711	190,608	192,479	180,434	168,745
Lagrange	35,700	32,846	36,015	38,842	31,973	35,459	37,856	34,540	29,915
Lake	1,115,650	1,100,952	1,099,149	1,112,574	1,034,327	1,179,381	1,321,724	1,487,764	1,404,194
La Porte	124,388	128,926	110,455	141,069	115,806	100,504	103,593	108,926	114,893
Lawrence	36,273	57,211	72,008	49,951	62,595	85,099	65,515	46,644	41,765

<b>County</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Madison	176,554	171,067	187,423	169,789	185,259	174,710	173,199	180,672	153,627
Marion	1,446,384	1,556,981	1,722,697	1,621,430	1,893,804	1,874,188	1,917,536	2,000,563	1,961,447
Marshall	97,866	97,969	83,882	87,323	81,106	88,344	85,457	82,277	75,272
Martin	19,298	14,916	15,899	18,136	13,020	19,644	19,138	17,800	13,723
Miami	41,634	42,320	43,549	37,493	39,547	44,758	41,670	32,815	29,829
Monroe	134,706	137,420	141,150	147,720	172,384	156,988	138,180	146,126	159,968
Montgomery	234,947	168,214	81,208	170,940	211,258	226,916	114,328	146,579	132,669
Morgan	49,548	65,400	58,946	60,120	63,295	43,167	47,672	39,042	41,604
Newton	12,638	12,616	13,313	11,907	14,777	16,256	13,604	11,896	11,584
Noble	113,300	114,368	97,152	86,829	90,233	95,305	73,562	76,754	73,587
Ohio	357	250	65	53	44	75	253	57	0
Orange	14,938	19,162	19,457	17,902	16,746	19,099	22,643	31,341	20,599
Owen	8,436	9,817	10,894	14,026	8,320	9,961	13,467	13,845	10,264
Parke	8,887	11,278	11,050	9,494	8,199	9,444	9,669	7,685	6,518
Perry	130,014	152,844	143,950	166,205	164,654	181,933	197,658	199,243	190,293
Pike	101,361	18,273	17,701	18,299	13,199	18,106	14,130	15,165	10,285
Porter	95,070	106,677	107,780	93,501	83,851	85,197	93,278	104,723	95,202
Posey	378,171	288,486	304,732	297,264	253,299	286,909	302,785	321,587	314,255
Pulaski	7,401	6,443	7,239	8,768	6,935	6,246	6,873	6,501	8,395
Putnam	29,539	36,378	37,544	33,995	38,407	34,017	34,914	32,945	31,482
Randolph	30,899	24,829	45,917	26,942	28,748	26,521	25,462	53,367	60,435
Ripley	12,952	11,593	8,610	12,237	13,869	12,550	12,715	13,405	14,656
Rush	36,719	26,615	25,008	26,713	29,382	31,259	36,508	49,418	17,531
<b>County</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
St. Joseph	200,874	217,838	207,146	176,815	190,566	201,008	194,160	193,756	180,491
Scott	23,583	24,788	20,684	20,778	21,767	20,493	19,170	21,241	21,020
Shelby	104,384	113,831	106,111	111,123	95,409	70,773	77,664	83,160	77,264
Spencer	145,984	207,722	240,580	178,226	216,862	221,719	450,651	635,215	403,982
Starke	9,294	8,203	5,888	7,672	9,015	9,806	10,096	9,737	9,913
Steuben	26,263	26,925	27,857	28,580	24,108	29,561	26,141	28,046	24,010
Sullivan	905,662	948,941	923,428	865,330	870,591	792,373	939,195	905,194	922,797
Switzerland	1,988	1,239	2,880	4,479	4,138	598	552	234	2,540
Tippecanoe	164,502	204,184	201,480	208,180	203,302	193,763	181,978	214,449	203,884
Tipton	16,906	12,555	13,843	16,417	15,613	39,548	15,084	12,504	12,225
Union	1,537	2,168	2,253	2,525	3,090	2,333	3,758	3,419	4,029
Vanderburgh	249,633	252,567	270,480	265,421	279,354	290,034	305,241	299,510	289,938
Vermillion	35,210	36,423	29,642	30,882	36,621	41,667	40,480	37,117	29,118
Vigo	229,081	212,474	191,523	188,441	190,323	195,937	252,606	207,038	191,240
Wabash	256,013	215,805	231,323	179,477	152,034	172,079	116,660	134,494	120,982
Warren	1,299	416	235	1,988	162	52	359	67	122
Warrick	45,359	43,342	53,035	51,009	59,265	46,442	64,055	57,734	47,070
Washington	19,949	28,020	32,517	23,174	24,476	32,805	22,489	134,494	20,586
Wayne	87,871	80,310	81,963	76,149	89,016	94,325	107,280	86,817	91,351
Wells	25,950	21,800	20,652	19,688	23,282	27,161	21,666	20,230	17,798
White	26,294	28,709	27,874	27,163	25,987	32,368	28,367	25,437	26,733
Whitley	14,770	21,797	17,238	26,293	26,430	25,326	32,625	39,373	38,243

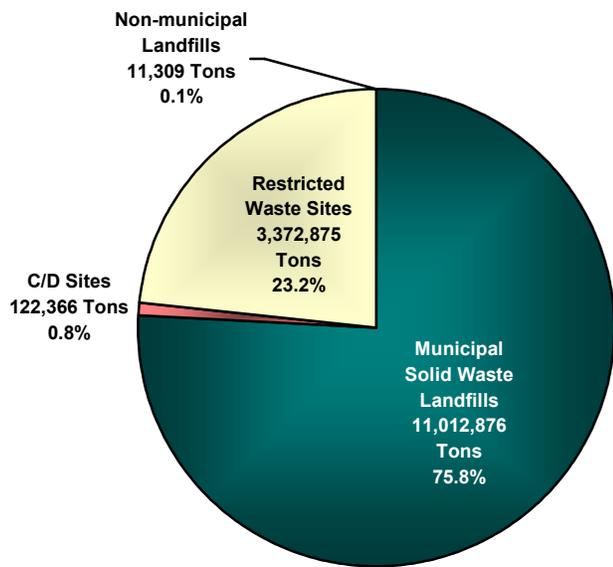
<sup>(1)</sup> Note: The information in Table 5 reflects the amount of waste from each county that was disposed of in an Indiana final disposal facility, either by direct haul or through an Indiana transfer station. It does not include waste disposed out-of-state, which explains the low amounts reported for counties near state lines. 1997 and 1998 data can be viewed in the 2005 and 2006 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 2007. Figure 4 displays this information by landfill type, and Figure 5 by waste

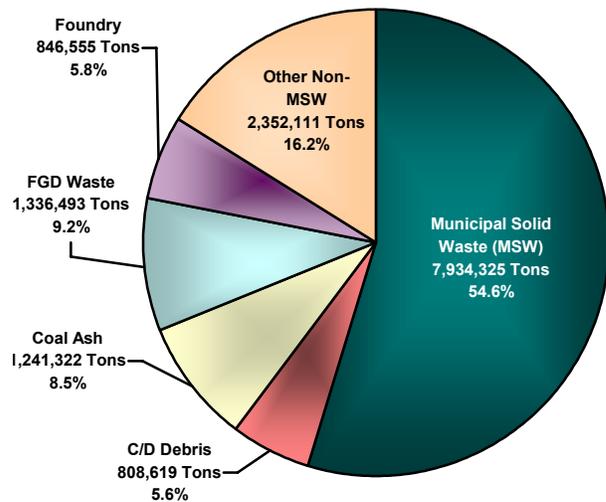
**Figure 4. Disposal of Solid Waste by Landfill Type During 2007**



**Table 6. Disposal of Solid Waste by Landfill Type and Waste Type During 2007**

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>	7,934,325	0	0	0	0	7,934,325
<b>C/D Debris</b>	686,253	112,366	0	0	0	808,619
<b>Coal Ash</b>	0	0	1,241,322	0	0	1,241,322
<b>FGD Waste</b>	0	0	1,336,493	0	0	1,336,493
<b>Foundry</b>	56,271	0	790,284	0	0	846,555
<b>Other NonMSW</b>	2,336,026	0	4,776	11,309	0	2,352,111
<b>TOTAL</b>	11,012,876	122,366	3,372,875	11,309	0	14,519,425

**Figure 5. Disposal of Solid Waste by Waste Type During 2007**



type, both as percentages of total. Table 7 displays totals of solid waste disposed at Indiana land disposal facilities from 1999 through 2007 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.

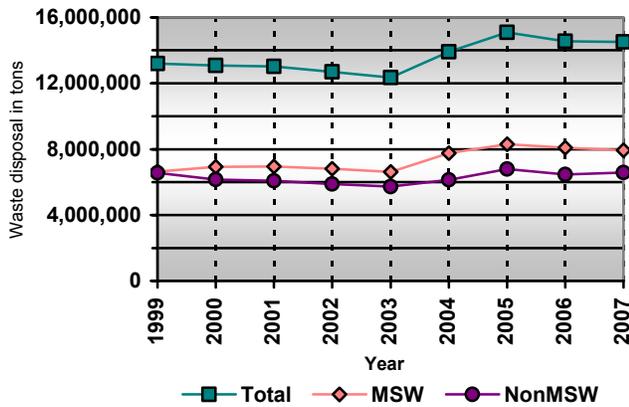
**Table 7.**  
**Annual Disposal at Solid Waste Land Disposal**  
**Facilities by Landfill Type and Waste Type**

(Includes waste imports to Indiana)

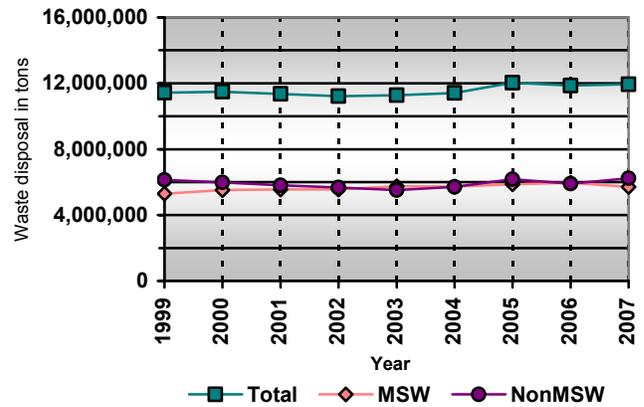
Landfill Type	Waste Type	Tons of Waste Disposed								
		1999	2000	2001	2002	2003	2004	2005	2006	2007
Municipal Solid Waste Landfills	MSW	6,634,100	6,928,077	6,937,485	6,804,633	6,617,491	7,767,135	8,290,669	8,077,872	7,934,325
	NonMSW	2,821,091	2,331,200	2,328,151	2,098,482	2,262,761	2,559,497	2,948,638	3,433,788	3,078,550
	<b>TOTAL</b>	<b>9,455,191</b>	<b>9,259,277</b>	<b>9,265,636</b>	<b>8,903,115</b>	<b>8,880,252</b>	<b>10,326,632</b>	<b>11,239,307</b>	<b>11,511,660</b>	<b>11,012,876</b>
Construction /Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	229,010	146,536	127,680	118,664	170,149	350,291	278,611	146,562	122,366
	<b>TOTAL</b>	<b>229,010</b>	<b>146,536</b>	<b>127,680</b>	<b>118,664</b>	<b>170,149</b>	<b>350,291</b>	<b>278,611</b>	<b>146,562</b>	<b>122,366</b>
Restricted Waste Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	3,438,190	3,525,067	3,551,753	3,547,708	3,263,520	3,218,770	3,556,637	2,877,133	3,372,875
	<b>TOTAL</b>	<b>3,438,190</b>	<b>3,525,067</b>	<b>3,551,753</b>	<b>3,547,708</b>	<b>3,263,520</b>	<b>3,218,770</b>	<b>3,556,637</b>	<b>2,877,133</b>	<b>3,372,875</b>
Non-municipal Solid Waste Landfills	MSW	0	0	4,381	0	0	0	0	0	0
	NonMSW	71,131	140,201	70,468	117,284	22,568	10,803	12,878	7,525	11,309
	<b>TOTAL</b>	<b>71,131</b>	<b>140,201</b>	<b>74,849</b>	<b>117,284</b>	<b>22,568</b>	<b>10,803</b>	<b>12,878</b>	<b>7,525</b>	<b>11,309</b>
All Landfills	MSW	6,634,100	6,928,077	6,941,866	6,804,633	6,617,491	7,767,135	8,290,669	8,077,872	7,934,325
	NonMSW	6,559,422	6,143,004	6,078,052	5,882,138	5,718,998	6,139,360	6,796,764	6,465,008	6,585,100
	<b>TOTAL</b>	<b>13,193,522</b>	<b>13,071,081</b>	<b>13,019,918</b>	<b>12,686,771</b>	<b>12,336,489</b>	<b>13,906,496</b>	<b>15,087,433</b>	<b>14,542,880</b>	<b>14,519,425</b>

**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**

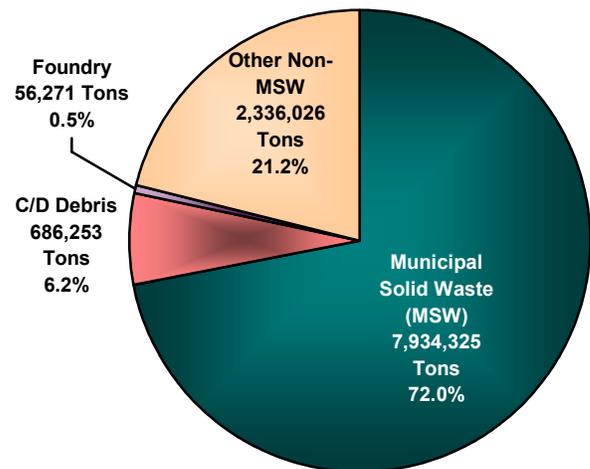
(Excludes direct imports to Indiana landfills)

Landfill Type	Waste Type	Tons of Waste Disposed								
		1999	2000	2001	2002	2003	2004	2005	2006	2007
Municipal Solid Waste Landfills	MSW	5,297,116	5,515,530	5,546,617	5,555,518	5,754,129	5,719,373	5,864,329	5,950,139	5,705,769
	NonMSW	2,439,624	2,166,705	2,053,755	1,902,596	2,127,281	2,350,077	2,488,859	2,921,750	2,735,785
	<b>TOTAL</b>	<b>7,736,740</b>	<b>7,682,235</b>	<b>7,600,372</b>	<b>7,458,114</b>	<b>7,881,410</b>	<b>8,069,450</b>	<b>8,353,188</b>	<b>8,871,889</b>	<b>8,443,562</b>
Construction /Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	205,432	144,976	126,264	97,236	105,576	124,275	110,643	101,638	110,426
	<b>TOTAL</b>	<b>205,432</b>	<b>144,976</b>	<b>126,264</b>	<b>97,236</b>	<b>105,576</b>	<b>124,275</b>	<b>110,643</b>	<b>101,638</b>	<b>110,426</b>
Restricted Waste Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	3,438,190	3,525,067	3,551,753	3,547,708	3,263,521	3,218,770	3,556,637	2,877,133	3,372,875
	<b>TOTAL</b>	<b>3,438,190</b>	<b>3,525,067</b>	<b>3,551,753</b>	<b>3,547,708</b>	<b>3,263,521</b>	<b>3,218,770</b>	<b>3,556,637</b>	<b>2,877,133</b>	<b>3,372,875</b>
Non-municipal Solid Waste Landfills	MSW	0	0	4,381	0	0	0	0	0	0
	NonMSW	49,300	139,966	67,739	112,793	22,568	10,803	12,878	7,525	11,309
	<b>TOTAL</b>	<b>49,300</b>	<b>139,966</b>	<b>72,120</b>	<b>112,793</b>	<b>22,568</b>	<b>10,803</b>	<b>12,878</b>	<b>7,525</b>	<b>11,309</b>
All Landfills	MSW	5,297,116	5,515,530	5,550,998	5,555,518	5,754,129	5,719,373	5,864,329	5,950,139	5,705,769
	NonMSW	6,132,546	5,976,714	5,799,511	5,660,333	5,518,946	5,703,925	6,169,017	5,908,046	6,230,395
	<b>TOTAL</b>	<b>11,429,662</b>	<b>11,492,244</b>	<b>11,350,509</b>	<b>11,215,851</b>	<b>11,273,075</b>	<b>11,423,298</b>	<b>12,033,346</b>	<b>11,858,185</b>	<b>11,936,164</b>

### Municipal Solid Waste Landfills

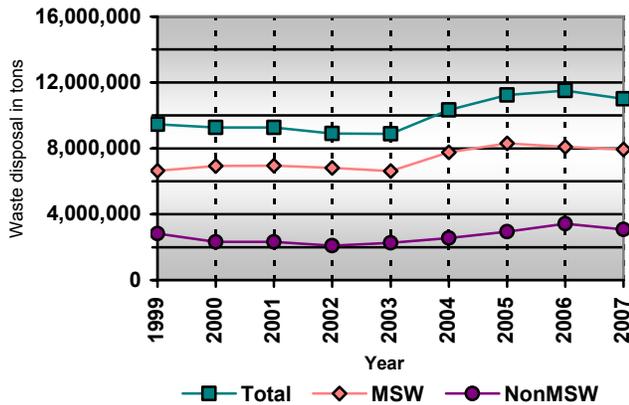
Most questions about land disposal facilities deal primarily with municipal solid waste (MSW) landfills. MSW landfills receive waste materials from residences, businesses, institutions, and industries. As a result of the wide range of waste types these landfills receive, they are built to more stringent 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 2007**



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

(Includes waste imports to Indiana)



(Excludes direct imports to Indiana landfills)

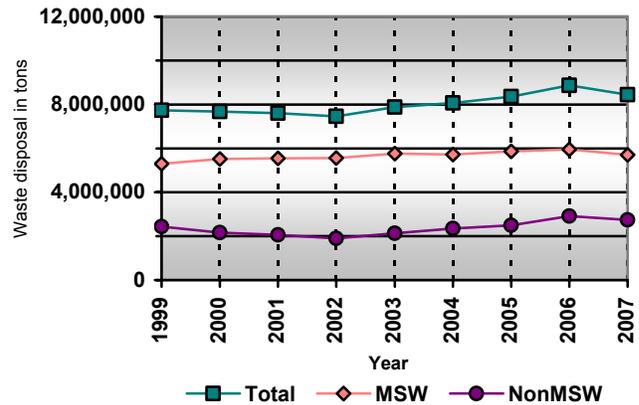


Figure 8 shows the municipal waste, non-municipal waste, and total disposal figures for MSW landfills in Tables 7 and 8 in graph form, similarly to Figure 6, which shows this for all landfills. Again, this is to more clearly depict disposal trends year-to-year.

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**

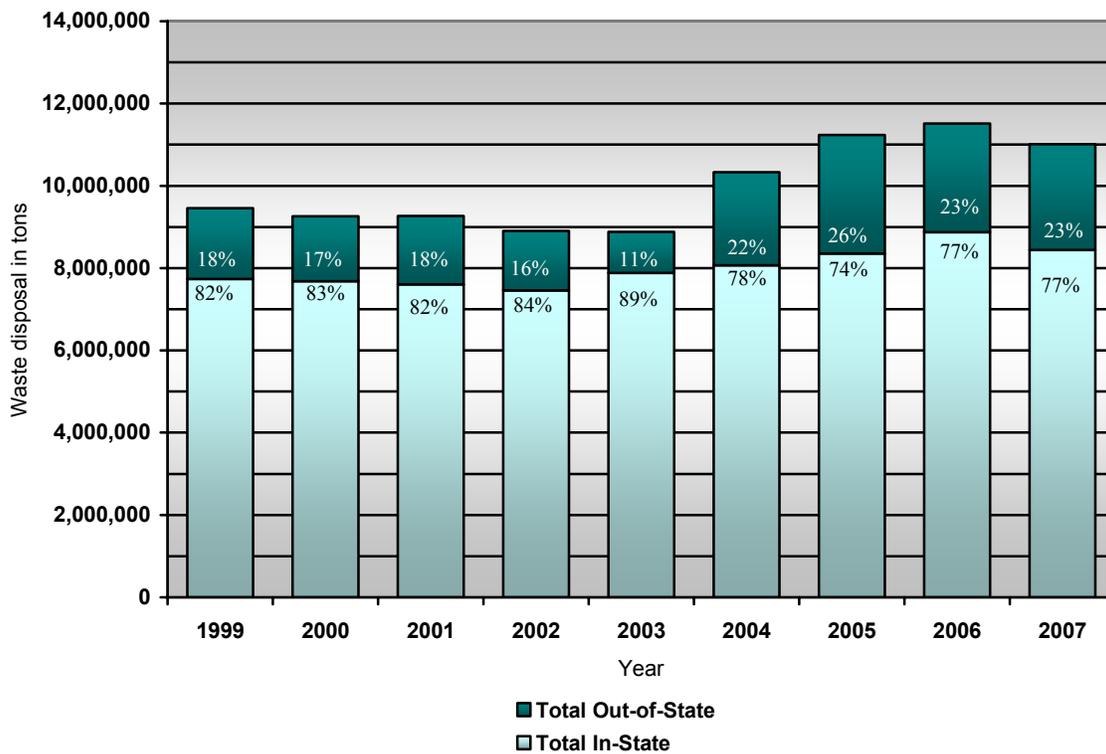


Figure 10 shows the distribution of disposal among MSW landfills. Note that 39% (or 13) of MSW landfills accepted less than 100,000 tons of solid waste.

**Figure 10.**  
**Distribution of Disposal at Municipal Solid Waste Landfills During 2007**

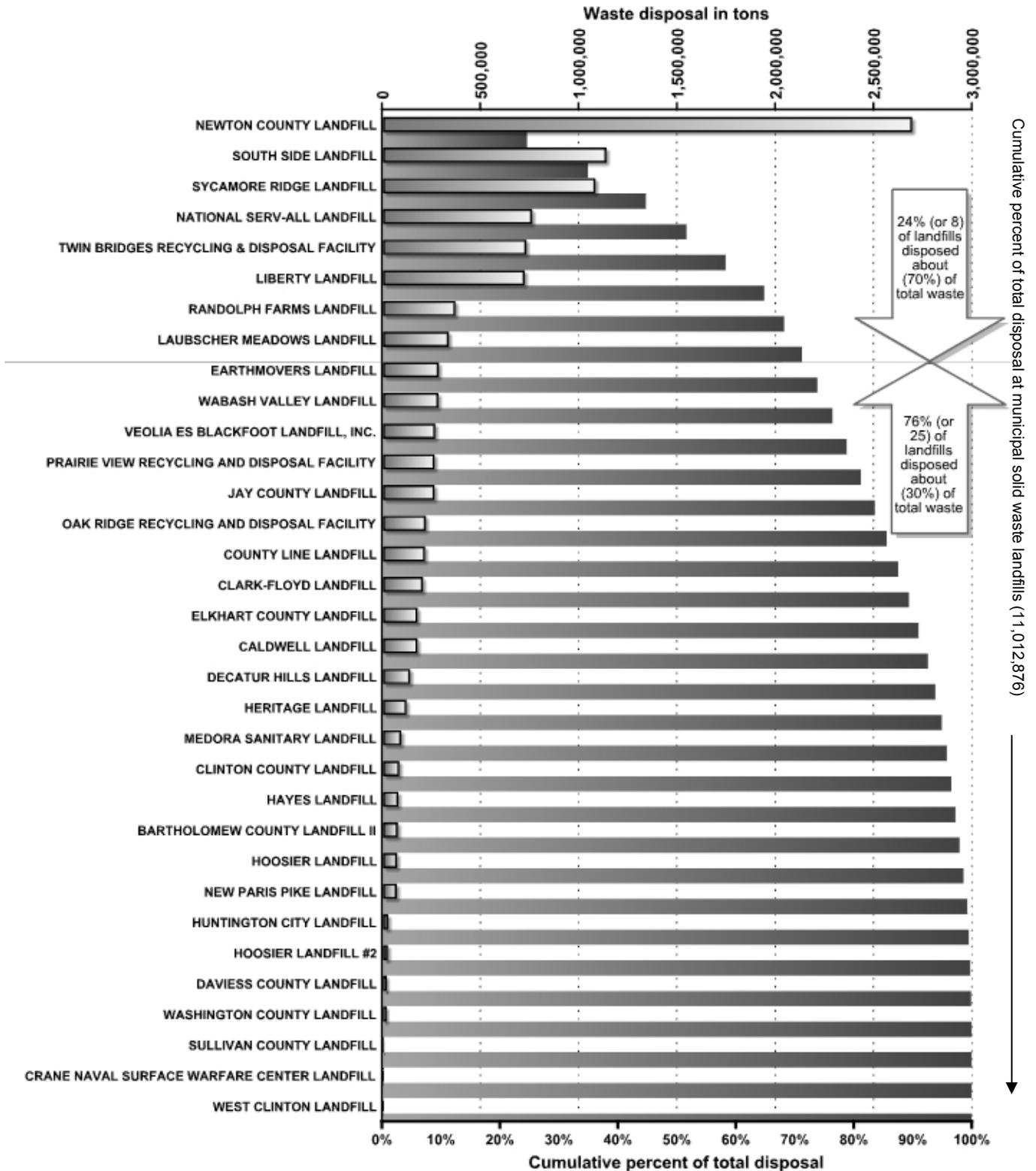


Table 9 summarizes total disposal at individual MSW landfills during 2007. More detailed disposal data for all solid waste disposal facilities is in a separate report entitled “2007 Solid Waste Facility Profiles.”

**Table 9.**  
**Total Disposal at Municipal Solid Waste Landfills During 2007**

County Location of Facility	Facility Name	Waste Disposal (Tons)	Number of Operating Days	Disposal per Operating Day (Tons)
Allen	National Serv-All Landfill	759,202.00	307	2,473
Bartholomew	Bartholomew County Landfill II	76,487.00	308	248
Cass	Oak Ridge Recycling And Disposal Facility	218,769.00	304	720
Clark	Clark-Floyd Landfill	203,809.62	308	662
Clinton	Clinton County Landfill	83,861.16	255	329
Daviess	Daviess County Landfill	20,168.00	301	67
Decatur	Decatur Hills Landfill	139,019.00	306	454
Elkhart	Earthmovers Landfill	284,612.00	312	912
Elkhart	Elkhart County Landfill	176,434.00	288	613
Fulton	County Line Landfill	214,577.00	255	841
Hendricks	Twin Bridges Recycling & Disposal Facility	730,243.00	309	2,363
Henry	Hayes Landfill	78,809.00	303	260
Huntington	Huntington City Landfill	27,439.00	270	102
Jackson	Medora Sanitary Landfill	93,520.61	309	303
Jay	Jay County Landfill	263,299.00	268	982
Kosciusko	Hoosier Landfill	72,393.38	191	379
Kosciusko	Hoosier Landfill #2	25,228.28	64	394
Marion	South Side Landfill	1,137,384.00	311	3,657
Martin	Crane Naval Surface Warfare Center Landfill	2,335.00	248	9
Newton	Newton County Landfill	2,692,454.94	307	8,770
Pike	Veolia ES Blackfoot Landfill	266,543.00	307	868
Putnam	Heritage Landfill	120,695.00	256	471
Randolph	Randolph Farms Landfill	369,035.00	310	1,190
St Joseph	Prairie View Recycling And Disposal Facility	263,450.00	261	1,009
Shelby	Caldwell Landfill	176,116.00	365	483
Sullivan	Sullivan County Landfill	5,229.00	256	20
Vanderburgh	Laubscher Meadows Landfill	335,585.64	307	1,093
Vermillion	West Clinton Landfill	588.00	304	2
Vigo	Sycamore Ridge Landfill	1,081,448.00	308	3,511
Wabash	Wabash Valley Landfill	282,263.00	307	919
Washington	Washington County Landfill	19,368.10	275	70
Wayne	New Paris Pike Landfill	70,693.00	250	283
White	Liberty Landfill	721,817.00	306	2,359
<b>Total for all Municipal Solid Waste Landfills</b>		<b>11,012,876</b>		

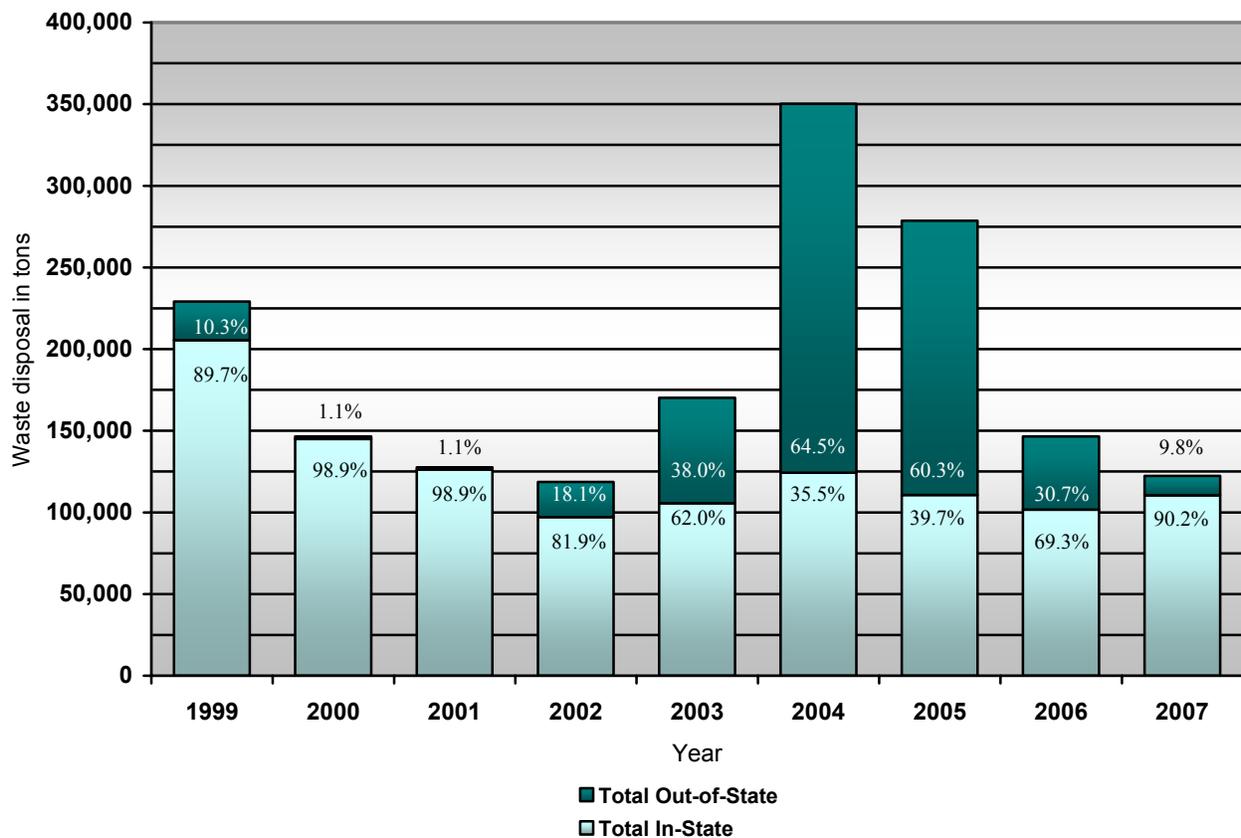
## Other Solid Waste Land Disposal Facilities

### 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 2007. 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 in 2004, 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 2007**

County Location of Facility	Facility Name	Waste Disposal in Tons
Bartholomew	City Garage Construction/Demolition Disposal Site	8,757
Elkhart	Warner & Sons Inc. C/D Site	836
Lake	Lake County C/D Site	54,972
Martin	Crane Naval Surface Warfare Center C/D Site	111
Pike	Velpen Solid C/D Site	20,031
Posey	Springfield Environmental C/D Site	25,395
Vermillion	West Clinton II C/D Site	12,264
<b>Total for All Construction-Demolition Sites:</b>		<b>122,366</b>

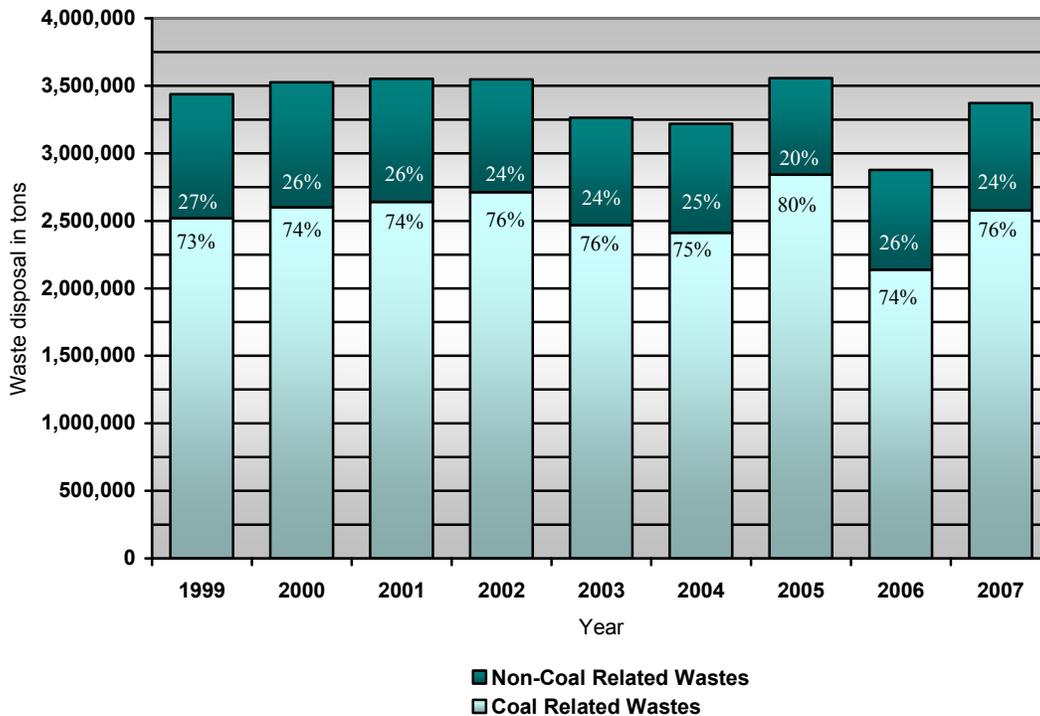
**● Restricted Waste Sites**

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 37 percent of the total tonnage disposed at restricted waste sites in 2007. Since 1996, coal combustion wastes have been reported as individual waste types on the solid waste facility quarterly reports. 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.

In 2006, Gibson Station’s waste intake decreased due to beneficial reuse of materials that was used in the construction of a new landfill. This decrease is also reflected in the total for Gibson County of waste disposed in Indiana (Table 5). In 2007, the intake has increased back to near the level of 2005.

**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 2007.

**Table 11.**  
**Total Disposal at Restricted Waste Sites During 2007**

<b>County Location of Facility</b>	<b>Facility Name</b>	<b>Waste Disposal in Tons</b>
Fountain	Harrison Steel Cast RWS 3	133,459.00
Gibson	Gibson Station Scrubber RWS 2	860,137.00
Jasper	R M Schahfer Generating Station RWS 1	199,743.00
Jefferson	Clifty Creek Coal Ash Disposal RWS 3	85,713.00
Knox	Scepter RWS 1	44,548.00
Kosciusko	Dalton Foundry RWS 3	69,421.00
Lake	U.S. Steel – Gary Works RW 1	234,223.00
La Porte	County Road 150 East Site	2,043.00
Lawrence	Lehigh Portland Cement Co RWS 1	4,650.00
Noble	Dalton Corp. Kendallville Mfg. Fac. Monofill RWS 3	22,600.90
Perry	Waupaca Foundry RWS 3	183,310.00
Posey	SIGECO Filter Cake Disposal RWS 3	241,343.00
Spencer	Rockport Plant Ash RWS 2	375,734.00
Sullivan	Merom Station RWS 2	906,179.00
Wabash	Ford Meter Box RWS 2	2,296.90
Wabash	Wabash Alloys RWS 1	7,474.00
<b>Total for All Restricted Waste Sites:</b>		<b>3,372,875</b>

## ● **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 2007 and the total amount of waste it received.

**Table 12.**  
**Total Disposal at Non-municipal Solid Waste Landfills During 2007**

<b>County Location of Facility</b>	<b>Facility Name</b>	<b>Waste Disposal in Tons</b>
Monroe	Dillman Road Waste Water Treatment Plant Landfill	11,309
<b>Total for All Non-municipal Landfills:</b>		<b>11,309</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 2007. Table 14 displays similar information from 1999 through 2007 for municipal and non-municipal waste. More detailed data for all solid waste processing facilities is provided in a separate report entitled “2007 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 2007**

Waste Type	Tons of Waste Received	
	Incinerators <sup>(1)</sup>	Transfer Stations
<b>Municipal</b>	556,132	3,161,410
<b>C/D</b>	0	371,768
<b>Coal Ash</b>	0	0
<b>FGD Waste</b>	0	0
<b>Foundry</b>	0	0
<b>Other Non-MSW</b>	55,965	75,287
<b>TOTAL</b>	<b>612,097</b>	<b>3,608,465</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								
		1999	2000	2001	2002	2003	2004	2005	2006	2007
Incinerators <sup>(1)</sup>	MSW	669,718	632,880	636,072	646,621	697,634	647,911	622,348	600,183	556,132
	NonMSW	27,901	28,672	30,274	41,591	24,704	36,095	44,202	44,472	55,965
	<b>TOTAL</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>	<b>644,655</b>	<b>612,097</b>
Transfer Stations	MSW	1,935,432	2,230,153	2,282,366	2,384,806	2,544,071	2,879,650	3,122,682	3,157,228	3,161,410
	NonMSW	474,227	499,069	470,251	482,556	517,690	543,744	486,532	541,282	447,055
	<b>TOTAL</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>	<b>3,698,510</b>	<b>3,608,465</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 2007 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 2007, there was about 165,400 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 2007<sup>(1)</sup>**

County Location of Facility	Facility Name	Waste Received in Tons
Marion	Indianapolis Resource Recovery Facility	612,097
<b>Total for All Incinerators</b>		<b>612,097</b>

<sup>(1)</sup> General Electric Ultem Thermal Oxidizer System did not accept any waste in 2007.

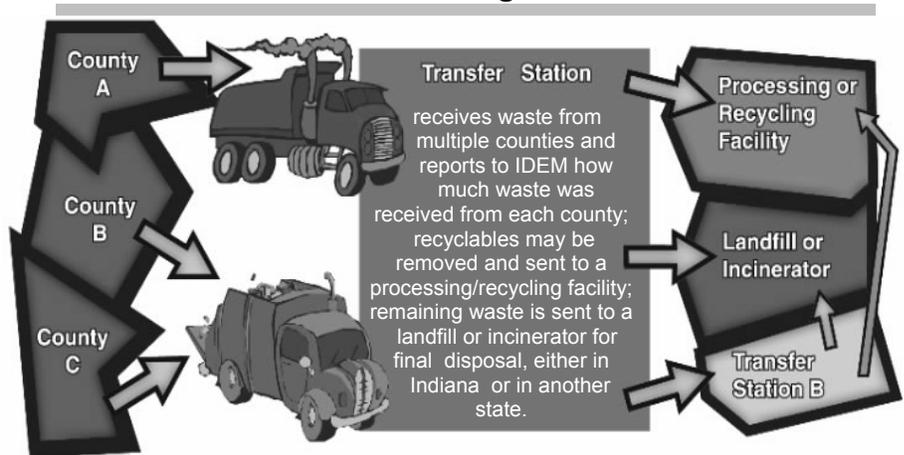
## Transfer Stations

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.

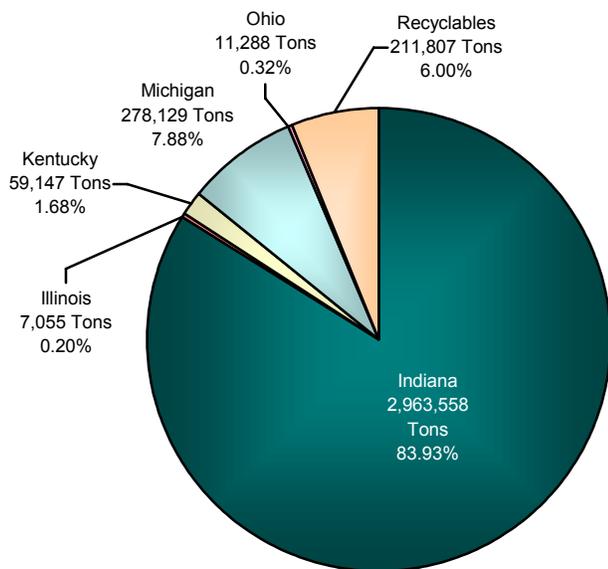
**Table 16.**  
**Destination of Waste Sent from Transfer Stations for Final Disposal**

Year	Total Tons Sent to All Facilities	To Indiana Facilities		To Out-of-State Facilities	
		Tonnage	% of Total	Tonnage	% of Total
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
2006	3,427,832	2,942,348	85.8	485,484	14.2
2007	3,319,177	2,963,558	89.3	355,619	10.7

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 1999 to 2007. Figure 14 shows a more detailed breakdown of the destination information for 2007. 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 “2007 Solid Waste Facility Profiles.”

**Figure 14.**  
**Destination of Waste Sent from Transfer Stations During 2007**



## Other Processing Facilities

Other processing facilities permitted by IDEM could include paper and medical waste processing facilities. Nine of the facilities operating during 2007 are classified under this category. In this report, these nine 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).



# 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.

2006 marks the first occurrence of waste imported from Canada. Indiana imported a total of 28 tons of waste from Canada in 2006. In 2007 Indiana imported a total of 27 tons from Canada.

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

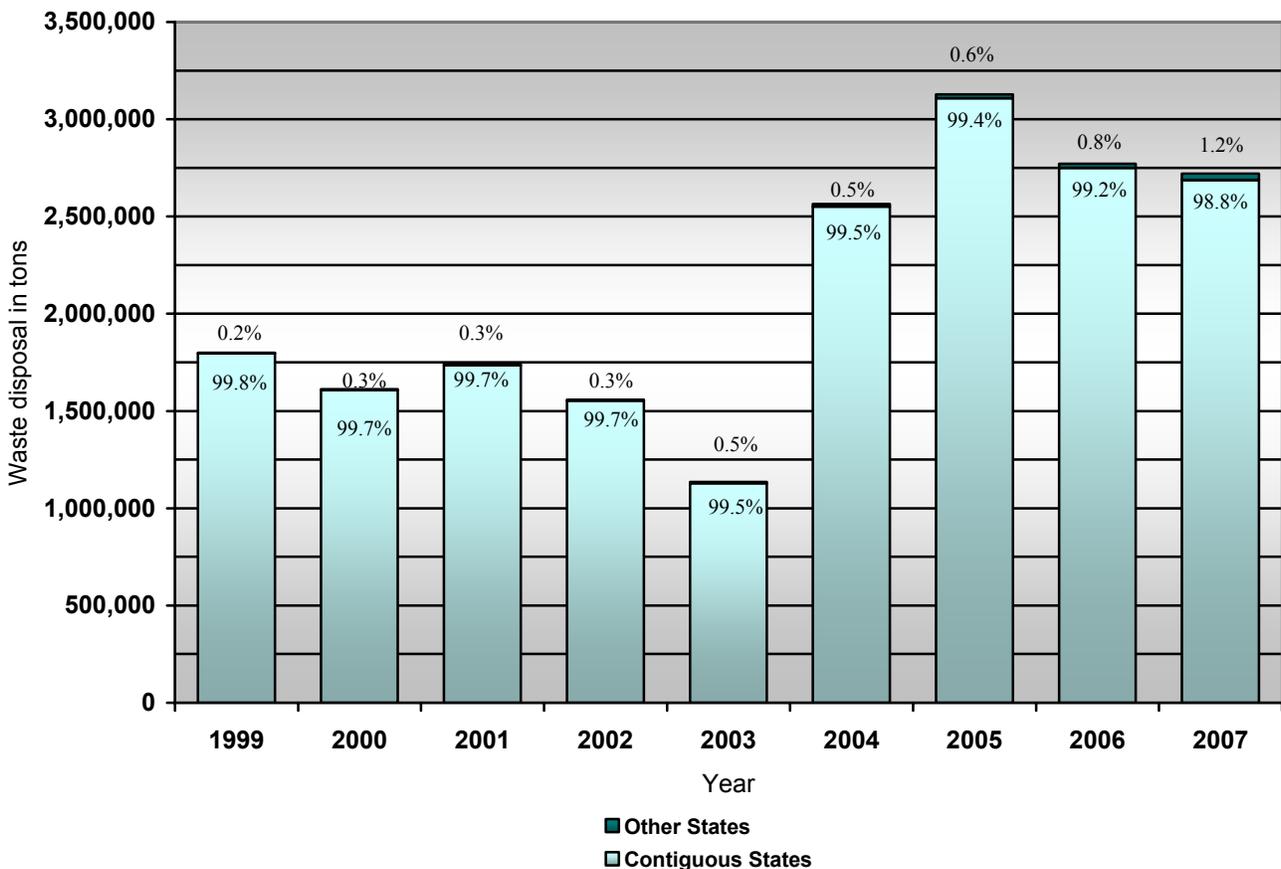


Table 17.

Out-of-State Waste Received During 2007<sup>(1)</sup>

Total Tons:							
State	Tons	State	Tons	State	Tons	State	Tons
County Name	Received	County Name	Received	County Name	Received	County Name	Received
<b>ILLINOIS</b>	<b>2,250,834</b>	<b>OHIO (cont'd)</b>		<b>MICHIGAN (cont'd)</b>		<b>TEXAS</b>	<b>1,431</b>
ADAMS	2	DEFIANCE	27	OAKLAND	209	DALLAS	55
BOND	<1	FRANKLIN	712	OCEANA	<1	HARRIS	4
BOONE	1	GUERNSEY	5	OGEMAW	5	SHELBY	1,366
BUREAU	<1	HAMILTON	5,059	OTTAWA	<1	TARRANT	6
CALHOUN	<1	LOGAN	165	ROSCOMMON	<1	<b>VIRGINIA</b>	<b>1,229</b>
CARROLL	1	MERCER	17,051	ST. CLAIR	29	RICHMOND CITY	1,229
CHAMPAIGN	352	MIAMI	90,742	ST. JOSEPH	335	<b>KANSAS</b>	<b>1,044</b>
CHRISTIAN	10	MONTGOMERY	349	WASHTENAW	310	ATCHISON	1
CLARK	4,585	PAULDING	223	WAYNE	254	DONIPHAN	718
CLAY	7	PORTAGE	3	WEXFORD	6	JOHNSON	318
COLES	23	PUTNAM	66	<b>IOWA</b>	<b>8,724</b>	WYANDOTTE	6
COOK	2,035,173	SHELBY	7,372	CERRO GORDO	64	<b>WEST VIRGINIA</b>	<b>773</b>
CRAWFORD	10,855	SUMMIT	3	CLINTON	22	CABELL	5
DE KALB	61	UNION	23	DES MOINES	27	KANAWHA	73
DE WITT	1	VAN WERT	17,035	DUBUQUE	<1	PUTNAM	694
DOUGLAS	1	WARREN	314	FRANKLIN	<1	WAYNE	1
DU PAGE	1,640	WILLIAMS	166	JOHNSON	8,548	<b>NEW JERSEY</b>	<b>584</b>
EDGAR	18,142	WOOD	7	LINN	1	GLOUCESTER	6
EFFINGHAM	21	<b>KENTUCKY</b>	<b>122,061</b>	MONONA	<1	UNION	578
FAYETTE	<1	ADAIR	2	O'BRIEN	<1	<b>CALIFORNIA</b>	<b>574</b>
FORD	1	ANDERSON	31	PLYMOUTH	<1	RIVERSIDE	551
FRANKLIN	785	BELL	1	POLK	23	SAN BERNARDINO	23
FULTON	1	BOURBON	38	SCOTT	25	<b>PENNSYLVANIA</b>	<b>394</b>
IROQUOIS	124	BOYLE	6	WINNEBAGO	<1	BUCKS	74
JASPER	109	BULLITT	122	WOODBURY	15	LANCASTER	3
KANE	111	CARROLL	1,060	<b>ARKANSAS</b>	<b>5,916</b>	MCKEAN	301
KANKAKEE	133,666	CHRISTIAN	2	COLUMBIA	5	MONTGOMERY	14
KENDALL	3	CLARK	2	SALINE	5,911	NORTHAMPTON	2
KNOX	76	CLAY	1	<b>WISCONSIN</b>	<b>4,298</b>	<b>DELAWARE</b>	<b>308</b>
LA SALLE	20	CRITTENDEN	2	BROWN	75	NEW CASTLE	308
LAKE	34,194	DAVISS	128	COLUMBIA	1	<b>ALABAMA</b>	<b>222</b>
LAWRENCE	4,178	FAYETTE	22	DANE	33	DALLAS	222
LEE	4	FLOYD	1	DODGE	1	<b>UTAH</b>	<b>194</b>
LIVINGSTON	5	FRANKLIN	1	GRANT	1	SALT LAKE	194
LOGAN	19	GREENUP	1	KENOSHA	112	<b>NEW HAMPSHIRE</b>	<b>163</b>
MACON	106	HANCOCK	14	MILWAUKEE	445	MERRIMACK	163
MACOUPIN	2	HARDIN	165	OUTAGAMIE	2	<b>MASSACHUSETTS</b>	<b>141</b>
MADISON	68	HENDERSON	64,713	OZAUKEE	43	ESSEX	141
MARION	17	HENRY	1,203	RACINE	<1	<b>MISSISSIPPI</b>	<b>117</b>
MASON	3,333	HOPKINS	11	ROCK	52	COAHOMA	2
MCHENRY	104	JEFFERSON	50,572	SAUK	1	WASHINGTON	115
MCLEAN	106	JESSAMINE	125	SHEBOYGAN	<1	<b>ARIZONA</b>	<b>81</b>
MENARD	1	MADISON	1	WALWORTH	5	MARICOPA	9
MONROE	<1	MARION	17	WASHINGTON	1	PINAL	72
MONTGOMERY	<1	METCALFE	12	WAUKESHA	3,525	<b>FLORIDA</b>	<b>49</b>
MORGAN	2	MONTGOMERY	23	<b>MISSOURI</b>	<b>3,063</b>	HILLSBOROUGH	5
MOULTRIE	<1	MUHLNBERG	2	BOONE	<1	SEMINOLE	44
OGLE	2	OWEN	7	BUCHANAN	4	<b>OKLAHOMA</b>	<b>47</b>
PEORIA	148	PULASKI	1	CAMDEN	1	OKLAHOMA	47
PIATT	26	ROCKCASTLE	4	CAPE GIRARDEAU	82	<b>NEW YORK</b>	<b>45</b>
RICHLAND	2	SCOTT	3,435	CLAY	74	CLINTON	21
ROCK ISLAND	6	SHELBY	3	FRANKLIN	157	ERIE	24
SANGAMON	125	UNION	2	JACKSON	1,569	<b>NORTH CAROLINA</b>	<b>43</b>
ST. CLAIR	59	WARREN	233	LINCOLN	6	FORSYTH	43
STEPHENSON	13	WASHINGTON	7	MACON	14	<b>COLORADO</b>	<b>37</b>
TAZEWELL	154	WEBSTER	7	PLATTE	29	EL PASO	37
UNION	<1	WHITLEY	79	ST. CHARLES	335	<b>CANADA</b>	<b>27</b>
VERMILION	1,038	WOODFORD	5	ST. FRANCOIS	<1	UNKNOWN	27
WABASH	116	<b>MICHIGAN</b>	<b>88,716</b>	ST. LOUIS	607	<b>LOUISIANA</b>	<b>16</b>
WARREN	2	ALLEGAN	342	ST. LOUIS CITY	12	BOSSIER	1
WASHINGTON	62	BENZIE	1	WASHINGTON	173	LINCOLN	9
WAYNE	<1	BERRIEN	2,510	<b>TENNESSEE</b>	<b>2,879</b>	MOREHOUSE	3
WHITESIDE	9	BRANCH	63,745	GIBSON	12	ST. LANDRY	3
WILL	871	CALHOUN	41	HAMBLN	6	<b>MINNESOTA</b>	<b>12</b>
WILLIAMSON	6	CASS	1,403	HICKMAN	3	HENNEPIN	12
WINNEBAGO	279	CHARLEVOIX	4,991	HUMPHREYS	338	<b>GEORGIA</b>	<b>4</b>
WOODFORD	9	CRAWFORD	6	MARION	3	DOUGLAS	2
<b>OHIO</b>	<b>226,398</b>	EATON	21	OBION	2	FULTON	2
ALLEN	75,627	GRAND	92	ROBERTSON	20	<b>MARYLAND</b>	<b>1</b>
AUGLAIZE	1,005	HILLSDALE	13,001	SHELBY	2,489	CECIL	1
BUTLER	7	JACKSON	18	SMITH	4		
CHAMPAIGN	1,869	KALAMAZOO	346	TIPTON	2		
CLARK	1	KENT	821				
CLINTON	20	LIVINGSTON	19				
CUYAHOGA	249	MACOMB	126				
DARKE	8,299	MUSKEGON	85				

<sup>(1)</sup> About 9,333 tons were sent back to out-of-state facilities by Indiana transfer stations.

Table 17 details the state origin and amount of out-of-state waste received at Indiana solid waste facilities during 2007. Figure 16 shows this information from 1999 through 2007. Illinois has been historically the largest source of waste imported to Indiana. In 2007, Illinois waste accounted for 83 percent of the out-of-state waste received by Indiana solid waste facilities. Ninety percent of that waste came from the Chicago area.

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

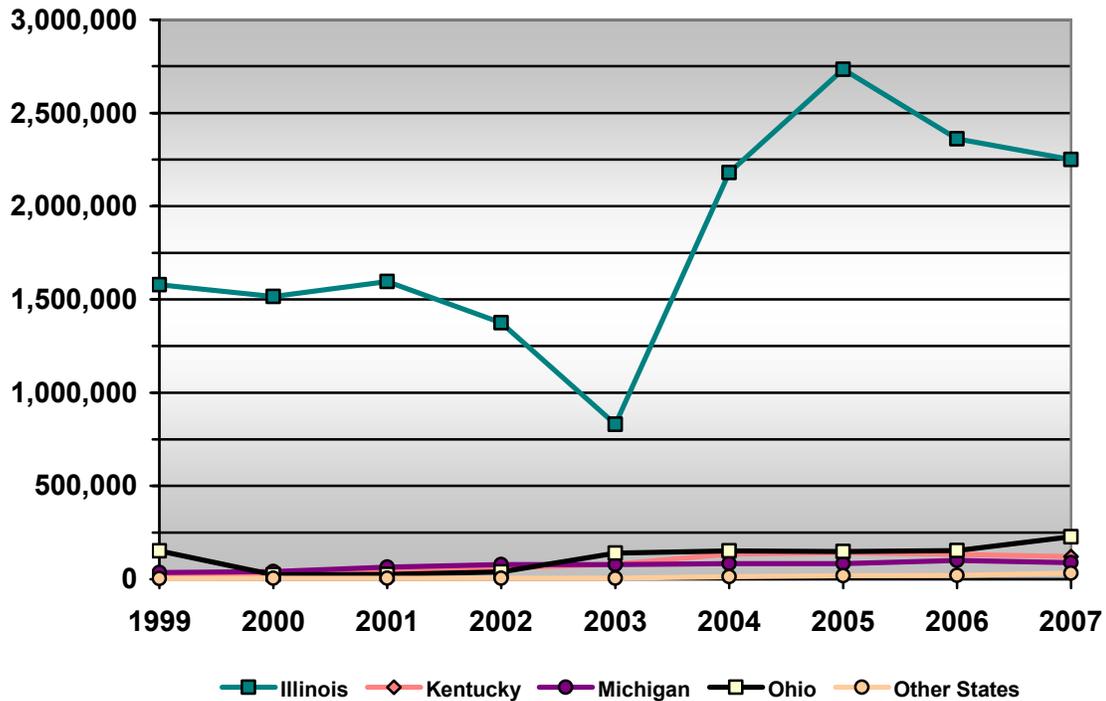


Table 18 displays the amount of out-of-state waste received by Indiana’s permitted solid waste facilities by each reported waste type during 2007. Table 19 displays similar information from 1999 through 2007 for municipal and non-municipal waste. MSW landfills have consistently received most of the waste imported from other states.

**Table 18.**  
**Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type During 2007**

Waste Type	Tons of Waste Received				
	Municipal Solid Waste Landfills	Construction/Demolition Sites	Incinerators	Transfer Stations	All Facilities
<b>Municipal</b>	2,228,556	0	618	85,439	2,314,614
<b>C/D</b>	122,498	11,940	0	177.90	134,615
<b>Foundry</b>	684	0	0		684
<b>Coal Ash</b>	0	0	0		0
<b>FGD Waste</b>	0	0	0		0
<b>Other Non-MSW</b>	219,583	0	45,539	5,392	270,514
<b>Total</b>	2,571,321	11,940	46,157	91,009	2,720,427

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**

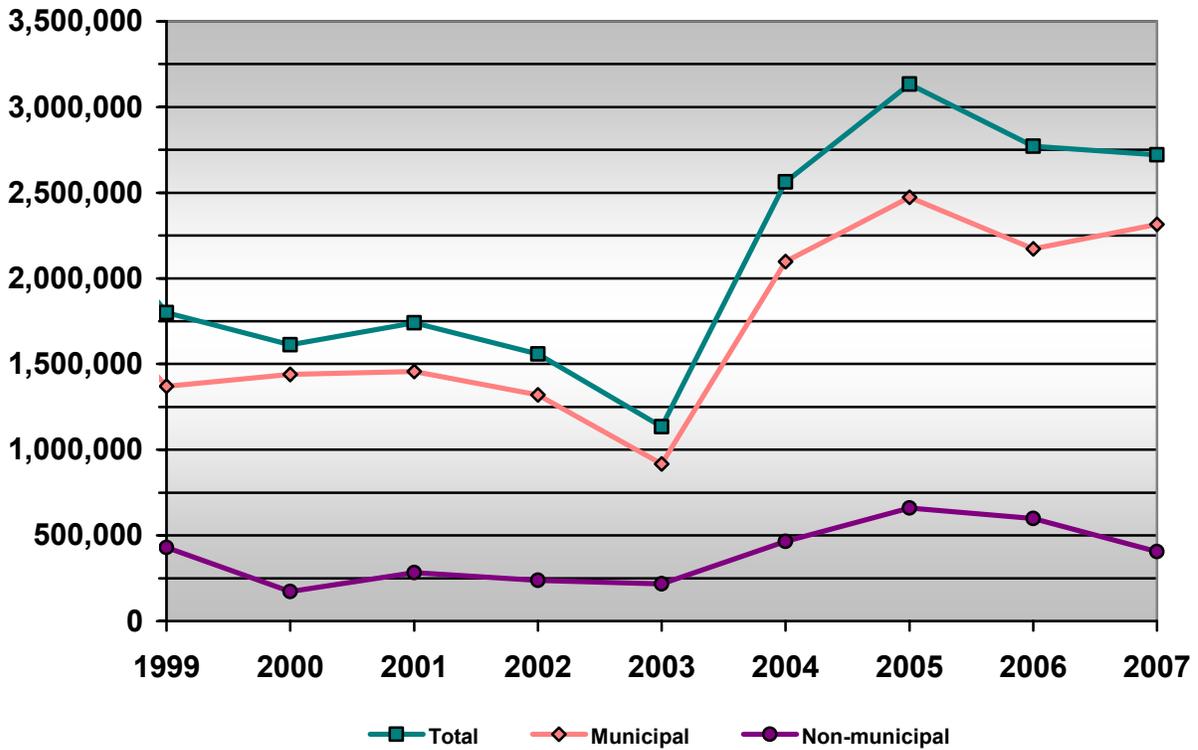


Table 19.

**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								
		1999	2000	2001	2002	2003	2004	2005	2006	2007
Municipal Solid Waste Landfills <sup>(1)</sup>	MSW	1,336,984	1,412,547	1,390,868	1,249,114	863,363	2,047,762	2,426,340	2,127,733	2,228,556
	NonMSW	381,467	164,495	274,396	195,887	135,480	209,420	459,779	512,038	342,765
	TOTAL	1,718,451	1,577,042	1,665,264	1,445,001	998,843	2,257,182	2,886,119	2,639,771	2,571,321
Construction/Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	23,578	1,560	1,416	21,428	64,573	226,016	167,968	44,924	11,940
	TOTAL	23,578	1,560	1,416	21,428	64,573	226,016	167,968	44,924	11,940
Non-Municipal Solid Waste Landfill	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	21,831	235	2,729	4,491	0	0	0	0	0
	TOTAL	21,831	235	2,729	4,491	0	0	0	0	0
Incinerators (nonhospital)	MSW	11,603	9,851	11,815	1,345	211	1,723	2,498	1,406	618
	NonMSW	1,303	1,396	897	14,451	16,410	25,315	30,057	36,290	45,539
	TOTAL	12,906	11,247	12,712	15,796	16,621	27,038	32,555	37,696	46,157
Transfer Stations <sup>(2)</sup>	MSW	22,520	17,093	54,016	69,136	54,104	48,605	38,716	43,466	85,439
	NonMSW	683	4,724	3,641	2,078	736	4,721	2,121	4,857	5,570
	TOTAL	23,203	21,817	57,657	71,214	54,840	53,326	40,837	48,323	91,009
All Facilities	MSW	1,371,107	1,439,491	1,456,699	1,319,595	917,679	2,098,090	2,467,553	2,172,605	2,314,614
	NonMSW	428,862	172,410	283,079	238,335	217,199	465,471	659,925	598,109	405,813
	TOTAL	1,799,969	1,611,901	1,739,778	1,557,930	1,134,878	2,563,561	3,127,478	2,770,714	2,720,427

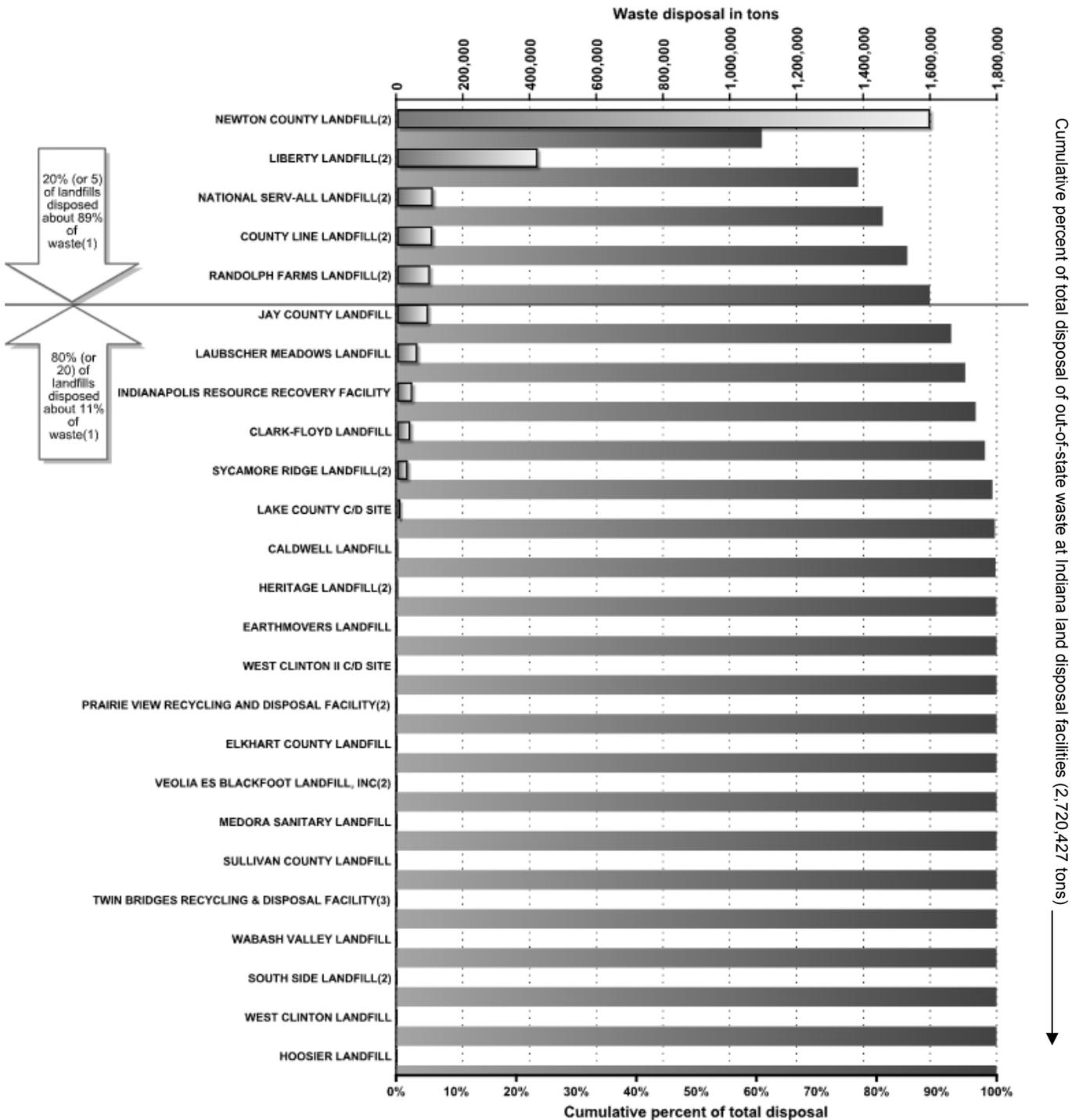
<sup>(1)</sup> This reflects only out-of-state waste shipped directly to MSW landfills. Most of the out-of-state waste received by transfer stations was sent to Indiana MSW landfills for final disposal. However, these MSW landfills reported the origin of this out-of-state waste as the county in which 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%. In 2000, the percentage significantly decreased to 14% and again in 2001 to an all time low of 3%. The percentage began increasing in 2002 and has been holding steady between 25% and 30% in the last couple of years. 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 25 facilities that received out-of-state waste during 2007, five (20%) disposed of 89%

of that waste. Ninety-one percent of the imported waste received by these five facilities was from Illinois. The other 20 facilities (80%) disposed of the remaining 11% of the imported waste.

**Figure 18.**  
**Distribution of Disposal of Out-of-State Waste Disposed at Indiana Solid Waste Facilities During 2007**



(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 2007. 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 "2007 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 2007**

County Location of Facility	Facility Name	Type of Facility	Tons of Out-of-State Waste Received
Allen	National Serv-All Landfill	MSW Landfill	107,810
Clark	Clark-Floyd Landfill	MSW Landfill	40,232
Clark	Bi-Co Transfer Station	Transfer Station	9,493.45
Clark	Midwest Resource Recovery Center	Transfer Station	2,162.80
Delaware	East Central Recycling Transfer Station	Transfer Station	137.00
Elkhart	Earthmovers Landfill	MSW Landfill	1,516.00
Elkhart	Elkhart County Landfill	MSW Landfill	521.00
Elkhart	Ampro	Medical Waste Processor	0.03
Fulton	County Line Landfill	MSW Landfill	106,339.00
Hendricks	Twin Bridges Recycling & Disposal Facility	MSW Landfill	57.00
Jackson	Medora Sanitary Landfill	MSW Landfill	318.19
Jay	Jay County Landfill	MSW Landfill	93,926.00
Johnson	Liquid Waste Removal Processing Facility	Processing Facility - Other	63.68
Knox	Jamax Transfer Station	Transfer Station	4,206.89
Kosciusko	Hoosier Landfill	MSW Landfill	4.00
Lagrange	Scott Resource Recovery And Transfer Facility	Transfer Station	35.00
Lake	Illiana Transfer #1	Transfer Station	54,911.00
Lake	Lake County C/D Site	Construction/Demolition Site	10,554.98
Lake	Waste Management Of Northwest Indiana Transfer Station	Transfer Station	102.00
Lake	Midwest Medical Solutions	Processing Facility - Other	11,029.08
La Porte	Waste Management Of Laporte Transfer Station	Transfer Station	2,021.00
Marion	South Side Landfill	MSW Landfill	24.00
Marion	Indianapolis Resource Recovery Facility	Incinerator	46,156.70
Marion	Ecological Systems Inc Processing Facility	Processing Facility - Other	1,869.00
Newton	Newton County Landfill	MSW Landfill	1,598,006.59
Noble	Kendallville Iron And Metal Transfer Station	Transfer Station	83.00
Pike	Veolia ES Blackfoot Landfill, Inc.	MSW Landfill	457.00
Porter	Able Disposal Recycling & Transfer Station	Transfer Station	370.94
Putnam	Heritage Landfill	MSW Landfill	3,041.00
Randolph	Randolph Farms Landfill	MSW Landfill	98,998.00
St Joseph	Prairie View Recycling And Disposal Facility	MSW Landfill	784.00
Shelby	Caldwell Landfill	MSW Landfill	3,190.00
Sullivan	Sullivan County Landfill	MSW Landfill	127.00
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill	61,302.33
Vanderburgh	Veolia Es Solid Waste Midwest, Inc.	Transfer Station	3,196.00
Vermillion	West Clinton II C/D Site	Construction/Demolition Site	1,385.00
Vermillion	West Clinton Landfill	MSW Landfill	5.00
Vigo	Sycamore Ridge Landfill	MSW Landfill	32,684.00
Wabash	Wabash Valley Landfill	MSW Landfill	42.00
Warren	Tri-County Transfer Station	Transfer Station	225.00
White	Liberty Landfill	MSW Landfill	421,937.00
White	Liquid Solutions, LLC	Processing Facility - Other	1,104
Total for All Facilities			2,720,427

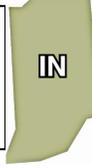
Table 21.

## Out-of-State Waste Received by Indiana Solid Waste Facilities During 2007

County	Facility Name	Facility Type	/-----Contiguous States-----/				Other States	Total Tons	% of Tons
			IL	KY	MI	OH			
Allen	National Serv-All Landfill	MSW Landfill	931		82,362	24,478	39	107,810	4.0%
Clark	Clark-Floyd Landfill	MSW Landfill		40,232				40,232	1.5%
Clark	Bi-Co Transfer Station	Transfer Station		9,493				9,493	0.3%
Clark	Midwest Resource Recovery Center	Transfer Station	17	1,675	1	117	354	2,163	0.1%
Delaware	East Central Recycling Transfer Station	Transfer Station				137		137	0.0%
Elkhart	Earthmovers Landfill	MSW Landfill	437		1,079			1,516	0.1%
Elkhart	Elkhart County Landfill	MSW Landfill			521			521	0.0%
Elkhart	Ampro	Medical Waste Processor			<1			<1	0.0%
Fulton	County Line Landfill	MSW Landfill	106,339					106,339	3.9%
Hendricks	Twin Bridges Recycling & Disposal Facility	MSW Landfill	45	12				57	0.0%
Jackson	Medora Sanitary Landfill	MSW Landfill		318				318	0.0%
Jay	Jay County Landfill	MSW Landfill				93,926		93,926	3.5%
Johnson	Liquid Waste Removal Processing Facility	Processing Facility - Other	43	<1		20		63	0.0%
Knox	Jamax Transfer Station	Transfer Station	4,207					4,207	0.2%
Kosciusko	Hoosier Landfill	MSW Landfill				4		4	0.0%
Lagrange	Scott Resource Recovery And Transfer Facility	Transfer Station			35			35	0.0%
Lake	Illiana Transfer #1	Transfer Station	54,911					54,911	2.0%
Lake	Lake County C/D Site	Construction/Demolition Site	10,555					10,555	0.4%
Lake	Waste Management Of Northwest Indiana Transfer Station	Transfer Station	102					102	0.0%
Lake	Midwest Medical Solutions	Processing Facility - Other	8,978		1,259	7	785	11,029	0.4%
La Porte	Waste Management Of Laporte Transfer Station	Transfer Station			2,021			2,021	0.1%
Marion	South Side Landfill	MSW Landfill				24		24	0.0%
Marion	Indianapolis Resource Recovery Facility	Incinerator	5,359	5,164	381	8,315	26,938	46,157	1.7%
Marion	Ecological Systems Inc Processing Facility	Processing Facility - Other	245	61		115	1,448	1,869	0.1%
Newton	Newton County Landfill	MSW Landfill	1,598,007					1,598,007	58.7%
Noble	Kendallville Iron And Metal Transfer Station	Transfer Station			8	75		83	0.0%
Pike	Veolia ES Blackfoot Landfill, Inc.	MSW Landfill	73	384				457	0.0%
Porter	Able Disposal Recycling & Transfer Station	Transfer Station	17		354			371	0.0%
Putnam	Heritage Landfill	MSW Landfill	449	30			2,562	3,041	0.1%
Randolph	Randolph Farms Landfill	MSW Landfill				98,998		98,998	3.6%
St Joseph	Prairie View Recycling And Disposal Facility	MSW Landfill	130		654			784	0.0%
Shelby	Caldwell Landfill	MSW Landfill	2,758	247		182	3	3,190	0.1%
Sullivan	Sullivan County Landfill	MSW Landfill	127					127	0.0%
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill		61,302				61,302	2.3%
Vanderburgh	Veolia Es Solid Waste Midwest, Inc.	Transfer Station	54	3,142				3,196	0.1%
Vermillion	West Clinton II C/D Site	Construction/Demolition Site	1,385					1,385	0.1%
Vermillion	West Clinton Landfill	MSW Landfill	5					5	0.0%
Vigo	Sycamore Ridge Landfill	MSW Landfill	32,684					32,684	1.2%
Wabash	Wabash Valley Landfill	MSW Landfill			42			42	0.0%
Warren	Tri-County Transfer Station	Transfer Station	225					225	0.0%
White	Liberty Landfill	MSW Landfill	421,937					421,937	15.5%
White	Liquid Solutions, LLC	Processing Facility - Other	816				288	1,104	0.0%
<b>Total for All Facilities</b>			<b>2,250,835</b>	<b>122,061</b>	<b>88,717</b>	<b>226,398</b>	<b>32,417</b>	<b>2,720,427</b>	

**Figure 19.**  
**Origin of Waste Disposed and Incinerated in Indiana During 2007**

Total Waste Disposed and Incinerated in Indiana	
Number of Final Disposal Facilities	Tons
<b>58</b>	<b>15,131,522</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>58</b>	<b>12,502,104</b>	<b>82.62%</b>	<b>25</b>	<b>2,629,418</b>	<b>17.38%</b>

Total Waste Received from Contiguous States			
Number of Final Disposal Facilities	Tons	% of OOSW <sup>(2)</sup>	
<b>25</b>	<b>2,599,876</b>	<b>98.88%</b>	
<b>Illinois</b>			
 Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>16</b>	<b>2,181,221</b>	<b>82.95%</b>	
<b>Kentucky</b>			
 Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>8</b>	<b>107,689</b>	<b>4.10%</b>	
<b>Michigan</b>			
 Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>6</b>	<b>85,039</b>	<b>3.23%</b>	
<b>Ohio</b>			
 Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>7</b>	<b>225,927</b>	<b>8.59%</b>	

Total Waste Received from Non-contiguous States			
Number of Final Disposal Facilities	Tons	% of OOSW <sup>(2)</sup>	
<b>4</b>	<b>29,542</b>	<b>1.12%</b>	
<b>Midwest States</b>			
Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>3</b>	<b>17,526</b>	<b>0.67%</b>	
<b>Other States<sup>(3)</sup></b>			
Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW <sup>(2)</sup>	
<b>4</b>	<b>12,015</b>	<b>0.46%</b>	

<sup>(1)</sup> Excludes an estimated 9,333 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.

<sup>(3)</sup> Includes 27 tons received from Canada.

# 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. Beginning in 2007, according to IAC 10-20-24 MSW landfills are required to conduct an annual survey between December 1 and March 31 of each year.

Table 22 provides an overview of Indiana’s remaining MSW landfill capacity. The total Indiana landfill capacity in 2007 is the sum of the remaining capacity for all MSW landfills, estimated to be about 250.2 million cubic yards. The overall remaining landfill life is calculated by taking the total remaining capacity divided by the total waste received in 2007 (the current waste intake rate); which is estimated to be 15.25 years. The total acreage for MSW landfills in 2007 is estimated to be about 3,600 acres.

In 2006, the total remaining capacity for all Indiana MSW landfills was estimated to be about 245.5

million cubic yards. The remaining life for all Indiana MSW landfills (based upon the 2006 volume of waste received) was estimated to be 14.22 years. The average landfill life was 18.21 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.

**Table 22.**  
**2007 Total Municipal Solid Waste Landfill Remaining Capacity and Life**

<b>Total Remaining Capacity</b>	<b>250,188,811.91 cubic yards</b>
Waste Received at MSW Landfills During 2007	16,519,313.60 cubic yards
<b>Total Remaining Life</b>	<b>15.25 years</b>
Total Area Within Solid Waste Boundary	3,612.76 acres

Table 23.

**2007 Remaining Landfill Capacity and Life by Permitted Municipal Solid Waste Landfill**

County Location of Facility	Facility Name	Area Within Solid Waste Boundary (acres)	Remaining Capacity <sup>(1)</sup> (cu yd)	Remaining Life <sup>(2)</sup> (years)
Allen	National Serv-All Landfill	229.64	31,920,261.58	28.03
Allen	United Refuse Landfill <sup>(3)(4)</sup>	62.10	550,532.00	n/a
Bartholomew	Bartholomew County Landfill II <sup>(4)</sup>	85.65	9,347,603.00	81.47
Cass	Oak Ridge RDF	98.36	2,833,687.03	8.64
Clark	Clark-Floyd Landfill <sup>(4)</sup>	171.63	1,219,898.00	3.99
Clinton	Clinton County Landfill	50.89	3,600,139.99	28.62
Daviess	Daviess County Landfill	28.68	873,918.01	28.89
Decatur	Decatur Hills Landfill	70.51	6,003,682.31	28.79
Elkhart	Earthmovers Landfill	96.34	4,790,305.60	11.22
Elkhart	Elkhart County Landfill	126.04	9,714,233.42	36.71
Fulton	County Line Landfill	165.66	13,224,120.28	41.09
Greene	Worthington Landfill <sup>(3)</sup>	58.72	3,687,713.49	n/a
Hendricks	Twin Bridges RDF	237.40	17,014,163.92	15.53
Henry	Hayes Landfill	65.28	2,477,819.30	20.96
Huntington	Huntington City Landfill	59.88	976,145.78	23.72
Jackson	Medora Sanitary Landfill <sup>(7)</sup>	40.73	8,895,149.87	63.41
Jay	Jay County Landfill	57.72	461,345.81	1.17
Kosciusko	Hoosier Landfill #2 <sup>(5)</sup>	64.94	5,076,476.66	134.15
Marion	South Side Landfill	229.42	11,705,609.20	6.86
Martin	Crane NSWC Landfill <sup>(6)</sup>	21.42	24,302.73	6.94
Monroe	Monroe County Landfill <sup>(3)</sup>	14.25	336,272.74	n/a
Newton	Newton County Landfill	376.31	23,809,762.31	5.90
Pike	Veolia ES Blackfoot Landfill <sup>(6)</sup>	168.65	10,922,992.27	27.32
Putnam	Heritage Landfill <sup>(6)</sup>	69.37	5,538,957.50	30.59
Randolph	Randolph Farms Landfill	155.13	10,071,313.56	18.19
St Joseph	Prairie View RDF	151.39	9,889,659.08	25.03
Shelby	Caldwell Landfill	90.62	759,428.31	2.87
Sullivan	Sullivan County Landfill <sup>(6)(8)</sup>	45.00	2,323,195.00	296.19
Vanderburgh	Laubscher Meadows Landfill <sup>(6)</sup>	55.52	6,922,202.72	13.75
Vermillion	West Clinton Landfill <sup>(6)</sup>	26.63	13,118.00	14.87
Vigo	Sycamore Ridge Landfill	164.74	18,956,520.56	11.69
Wabash	Wabash Valley Landfill <sup>(4)</sup>	137.06	12,703,735.00	30.00
Washington	Washington County Landfill	16.14	944,984.33	32.53
Wayne	New Paris Pike Landfill	31.42	7,713,633.65	72.74
White	Liberty Landfill	89.52	4,885,928.88	4.51

<sup>(1)</sup> Remaining capacity is remaining air space (15% daily cover & final cover volume removed) as of December 31, 2007; Contour maps generated by landfills from flyover dates ranging from October 2007 to April 2008.

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

<sup>(3)</sup> Received no waste in 2007

<sup>(4)</sup> Remaining Capacity supplied by landfill

<sup>(5)</sup> Kosciusko County Landfill transferred permit in 2007 to Hoosier Landfill #2

<sup>(6)</sup> Remaining Capacity Estimated based on 2007 waste intake and 2006 remaining capacity

<sup>(7)</sup> Major Modification in 2007

<sup>(8)</sup> MSW Landfill received only C/D waste in 2007