INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SOLID WASTE

2006 SOLID WASTE FACILITIES ANNUAL REPORT

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The ***2006 Summary of Indiana Solid Waste Facility Data*** is the fifteenth 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 ***2006 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.

***Contributors*:** Sarah Germann
Michelle Weddle

***Project Coordinator*:** Michelle Weddle

***Cover Design*:** Lorie Finch

For additional information, please call the IDEM Office of Land Quality at (317) 233-4624.

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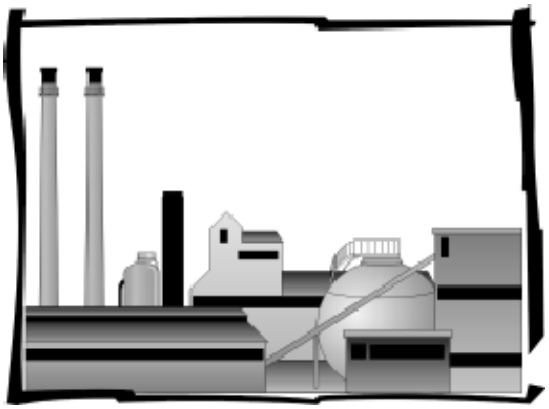
Introduction

This report is the fifteenth 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 2006 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. This is the second year since 1996 that 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 *2006 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

Information Available	Description	Contact
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.	Sarah Germann (317)233-1521
Solid waste management fee reports (IDOR)	Monthly reports showing fees collected for solid waste disposed at final disposal facilities.	Teresa Clark (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/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 2006. 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

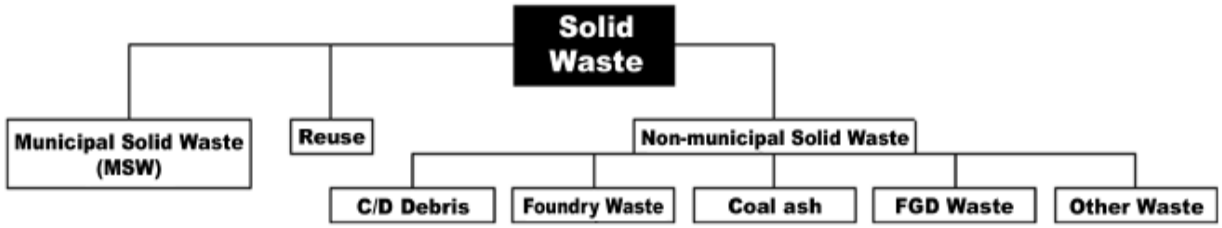


Table 2.

Solid Waste Classification Guide

TYPE	GENERAL CATEGORIES	EXAMPLES	
Municipal Solid Waste (MSW)	**Residential** - Single- and multi-family units - Other (campgrounds, parks, etc.) **Commercial** - Retail and wholesale - Service industry **Institutional** - Prisons, hospitals, schools, and universities - Government sector **Industrial non-process** - 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)
C/D Debris	**Construction / Demolition** - Construction industry - Demolition companies	- Uncontaminated 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
Foundry	**Foundry Waste**	- Waste sand, slag, sludge, core waste, dust fines, etc.	
Coal Ash	**Coal Ash**	- Coal ash - Fly ash, bottom ash, etc. - Ash resulting from the combustion of coal	
FGD Waste	**Flue Gas Desulfurization Byproducts**	- Scrubber / FGD sludge - Pollution control sludge resulting from coal combustion	
Other	**Other** - 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
Reuse (landfills only)	**Reuse** - 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 2006

A. Land Disposal Facilities

Municipal Solid Waste Landfills	35
• Privately Owned	25
• Publicly Owned[1]	10
Construction-Demolition Sites[1]	9
Restricted Waste Sites[2]	17
Non-municipal Solid Waste Landfills[3]	1
TOTAL	62

[1] Some facilities are captive sites.
[2] Most facilities are captive sites.
[3] Facilities are captive sites.

B. Processing Facilities

Solid Waste Incinerators[4]	2
• Municipal	1
• Industrial[3]	1
Transfer Stations	64
• Privately Owned[5]	49
• Publicly Owned	15
TOTAL	66

[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

A. Land Disposal Facilities

Type	Acceptable Wastes	Data reported to IDEM
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. Incinerators

Type	Acceptable Wastes	Data reported to IDEM
Large solid waste	Municipal waste, construction-demolition debris, other non-municipal wastes	Yes
Small solid waste[1]	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[2]	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

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 2006, six processing facilities were in operation during the year.

Accuracy of Facility Reports

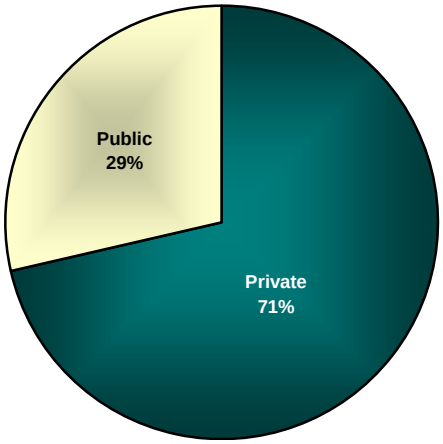
IDEM conservatively estimates that municipal solid waste tonnages may be over-reported by 20 to 40 percent due to some loads of municipal solid waste being mixed with non-municipal solid waste but identified only as municipal solid waste. According to studies in other states, construction-demolition 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 2006.

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 2006



Note: For 2006, 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

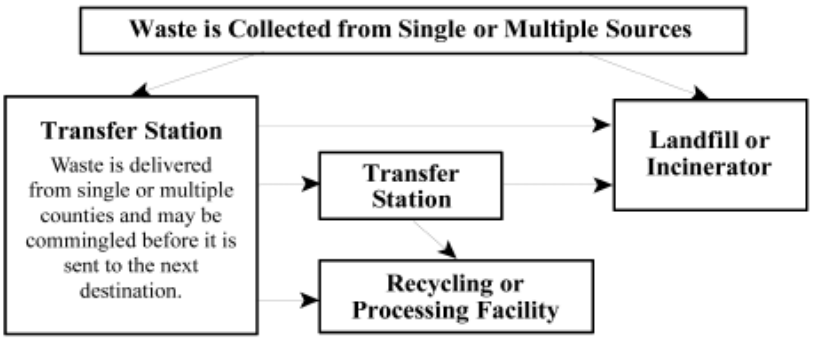


Table 5.

Waste Tons Disposed in Indiana[1], by Estimated County of Origin

County	1998	1999	2000	2001	2002	2003	2004	2005	2006
Adams	46,997	46,647	35,183	31,835	36,833	47,406	49,534	47,729	47,708
Allen	528,523	532,067	563,565	529,213	475,877	493,847	495,951	471,596	557,997
Bartholomew	168,594	170,936	168,640	138,449	144,879	103,590	91,640	103,597	100,761
Benton	2,199	2,429	1,768	2,342	2,179	1,949	1,191	1,153	694
Blackford	48,542	30,049	18,025	15,813	17,597	31,461	24,582	26,341	25,342
Boone	66,424	88,067	79,787	67,908	82,369	69,514	66,930	66,016	95,349
Brown	4,320	7,414	5,680	5,009	4,240	5,563	6,041	7,933	7,879
Carroll	19,773	22,294	21,530	24,437	21,492	20,820	18,698	15,072	14,085
Cass	52,297	46,347	44,244	58,014	44,333	49,415	48,479	43,385	47,754
Clark	95,526	81,612	98,511	89,357	79,744	73,544	88,358	107,665	113,052
Clay	22,960	27,370	28,258	19,236	22,715	23,013	26,429	25,852	25,245
Clinton	45,816	40,673	49,343	48,602	48,716	45,607	51,854	51,856	42,331
Crawford	5,744	4,716	1,412	1,299	1,361	1,223	1,861	6,081	2,523
Daviess	30,214	26,620	33,003	24,943	23,028	27,316	24,477	29,211	28,096
Dearborn	2,363	2,047	9,124	895	1,555	1,198	509	512	839
Decatur	26,226	26,186	28,521	31,507	30,840	33,129	30,451	28,658	34,751
DeKalb	170,934	130,392	151,427	139,531	152,390	126,868	51,236	41,314	58,416
Delaware	156,084	126,859	154,664	139,272	154,054	148,748	164,217	153,745	149,093
Dubois	42,606	48,287	57,241	58,420	37,615	43,161	63,088	62,581	57,651
Elkhart	436,867	501,018	413,623	396,569	373,738	384,136	408,603	433,305	453,693
Fayette	11,949	17,294	17,493	17,969	19,224	20,820	19,907	18,857	18,536
Floyd	55,835	58,657	56,326	49,136	32,263	29,586	25,370	22,516	22,609
County	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
Fountain	58,391	44,248	44,952	54,349	55,323	52,168	71,542	95,361	99,562
Franklin	4,104	4,300	5,468	7,804	6,532	5,562	6,071	8,067	7,699
Fulton	45,105	50,356	39,723	34,502	25,096	27,309	32,553	30,236	30,989
Gibson	1,743,917	945,627	1,038,734	1,102,377	1,212,387	1,001,323	1,026,286	1,012,977	120,217
Grant	83,442	104,116	86,924	91,298	82,840	80,030	81,485	87,506	87,342
Greene	20,543	23,605	24,112	21,758	25,024	27,281	26,566	24,600	22,438
Hamilton	232,712	261,592	168,933	164,178	197,831	231,298	265,622	303,887	306,424
Hancock	110,809	115,518	120,722	103,938	121,638	116,343	89,672	88,072	102,137
Harrison	112	314	473	1,825	3,080	28,817	2,582	4,756	6,031
Hendricks	126,982	141,111	151,346	144,364	190,277	216,369	242,244	244,592	274,699
Henry	94,261	76,231	62,868	65,101	66,298	62,376	71,183	63,308	58,367
Howard	169,044	157,698	188,929	161,842	140,215	147,439	103,928	113,074	114,407
Huntington	38,921	38,263	41,292	62,478	61,618	44,952	42,924	41,796	51,362
Jackson	57,475	55,609	59,808	58,622	61,142	54,063	63,712	65,653	62,787
Jasper	159,756	166,873	168,003	163,210	174,913	181,972	176,349	203,323	187,279
Jay	54,742	47,752	23,032	25,997	32,009	28,084	21,768	23,012	25,638
Jefferson	63,526	69,832	126,774	111,541	144,881	105,274	114,109	148,744	175,037
Jennings	21,175	20,760	19,987	23,374	21,987	22,190	22,400	31,861	37,274
Johnson	155,694	149,403	161,435	176,820	186,809	197,351	178,716	188,847	209,939
Knox	53,088	52,723	60,216	67,999	56,611	61,158	65,694	76,156	80,125
Kosciusko	241,978	232,641	226,065	203,843	177,684	227,711	190,608	192,479	180,434
Lagrange	50,329	35,700	32,846	36,015	38,842	31,973	35,459	37,856	34,540
Lake	930,599	1,115,650	1,100,952	1,099,149	1,112,574	1,034,327	1,179,381	1,321,724	1,487,764
La Porte	134,509	124,388	128,926	110,455	141,069	115,806	100,504	103,593	108,926
Lawrence	39,565	36,273	57,211	72,008	49,951	62,595	85,099	65,515	46,644

County	1998	1999	2000	2001	2002	2003	2004	2005	2006
Madison	173,774	176,554	171,067	187,423	169,789	185,259	174,710	173,199	180,672
Marion	1,341,364	1,446,384	1,556,981	1,722,697	1,621,430	1,893,804	1,874,188	1,917,536	2,000,563
Marshall	91,128	97,866	97,969	83,882	87,323	81,106	88,344	85,457	82,277
Martin	16,886	19,298	14,916	15,899	18,136	13,020	19,644	19,138	17,800
Miami	32,925	41,634	42,320	43,549	37,493	39,547	44,758	41,670	32,815
Monroe	137,838	134,706	137,420	141,150	147,720	172,384	156,988	138,180	146,126
Montgomery	158,463	234,947	168,214	81,208	170,940	211,258	226,916	114,328	146,579
Morgan	49,879	49,548	65,400	58,946	60,120	63,295	43,167	47,672	39,042
Newton	13,727	12,638	12,616	13,313	11,907	14,777	16,256	13,604	11,896
Noble	140,173	113,300	114,368	97,152	86,829	90,233	95,305	73,562	76,754
Ohio	51	357	250	65	53	44	75	253	57
Orange	18,034	14,938	19,162	19,457	17,902	16,746	19,099	22,643	31,341
Owen	8,131	8,436	9,817	10,894	14,026	8,320	9,961	13,467	13,845
Parke	11,682	8,887	11,278	11,050	9,494	8,199	9,444	9,669	7,685
Perry	77,801	130,014	152,844	143,950	166,205	164,654	181,933	197,658	199,243
Pike	520,868	101,361	18,273	17,701	18,299	13,199	18,106	14,130	15,165
Porter	80,199	95,070	106,677	107,780	93,501	83,851	85,197	93,278	104,723
Posey	437,653	378,171	288,486	304,732	297,264	253,299	286,909	302,785	321,587
Pulaski	8,283	7,401	6,443	7,239	8,768	6,935	6,246	6,873	6,501
Putnam	28,944	29,539	36,378	37,544	33,995	38,407	34,017	34,914	32,945
Randolph	34,377	30,899	24,829	45,917	26,942	28,748	26,521	25,462	53,367
Ripley	12,123	12,952	11,593	8,610	12,237	13,869	12,550	12,715	13,405
Rush	30,453	36,719	26,615	25,008	26,713	29,382	31,259	36,508	49,418
County	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
St. Joseph	232,307	200,874	217,838	207,146	176,815	190,566	201,008	194,160	193,756
Scott	21,502	23,583	24,788	20,684	20,778	21,767	20,493	19,170	21,241
Shelby	100,517	104,384	113,831	106,111	111,123	95,409	70,773	77,664	83,160
Spencer	203,585	145,984	207,722	240,580	178,226	216,862	221,719	450,651	635,215
Starke	11,985	9,294	8,203	5,888	7,672	9,015	9,806	10,096	9,737
Steuben	19,600	26,263	26,925	27,857	28,580	24,108	29,561	26,141	28,046
Sullivan	948,650	905,662	948,941	923,428	865,330	870,591	792,373	939,195	905,194
Switzerland	1,768	1,988	1,239	2,880	4,479	4,138	598	552	234
Tippecanoe	187,132	164,502	204,184	201,480	208,180	203,302	193,763	181,978	214,449
Tipton	12,267	16,906	12,555	13,843	16,417	15,613	39,548	15,084	12,504
Union	482	1,537	2,168	2,253	2,525	3,090	2,333	3,758	3,419
Vanderburgh	239,678	249,633	252,567	270,480	265,421	279,354	290,034	305,241	299,510
Vermillion	37,872	35,210	36,423	29,642	30,882	36,621	41,667	40,480	37,117
Vigo	206,839	229,081	212,474	191,523	188,441	190,323	195,937	252,606	207,038
Wabash	274,892	256,013	215,805	231,323	179,477	152,034	172,079	116,660	134,494
Warren	280	1,299	416	235	1,988	162	52	359	67
Warrick	49,245	45,359	43,342	53,035	51,009	59,265	46,442	64,055	57,734
Washington	20,782	19,949	28,020	32,517	23,174	24,476	32,805	22,489	134,494
Wayne	94,227	87,871	80,310	81,963	76,149	89,016	94,325	107,280	86,817
Wells	31,396	25,950	21,800	20,652	19,688	23,282	27,161	21,666	20,230
White	29,958	26,294	28,709	27,874	27,163	25,987	32,368	28,367	25,437
Whitley	10,354	14,770	21,797	17,238	26,293	26,430	25,326	32,625	39,373

(1) 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. 1996 and 1997 data can be viewed in the 2004 and 2005 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 2006. Figure 4 displays this information by landfill type, and Figure 5 by waste type, both as percentages of total. Table 7 displays totals of solid waste disposed at Indiana land disposal facilities from 1998 through 2006 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.

Figure 4.
Disposal of Solid Waste by Landfill Type During 2006

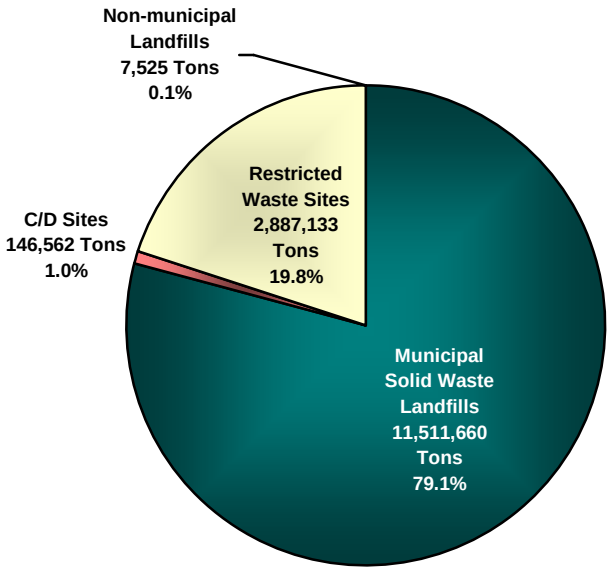


Figure 5.
Disposal of Solid Waste by Waste Type During 2006

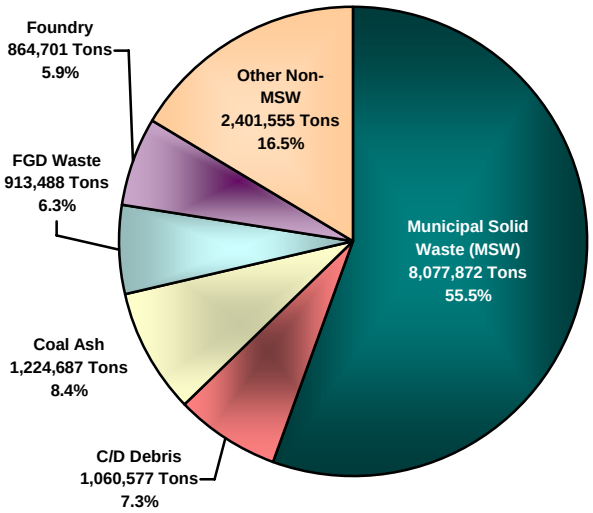


Table 6.
Disposal of Solid Waste by Landfill Type and Waste Type During 2006

Tons of Waste Disposed

Waste Type	Municipal Solid Waste Landfills	Construction/ Demolition Sites	Restricted Waste Sites	Non-municipal Solid Waste Landfills	All Landfills
Municipal	8,077,872	0	0	0	8,077,872
C/D Debris	914,015	146,562	0	0	1,060,577
Coal Ash	0	0	1,224,687	0	1,224,687
FGD Waste	0	0	913,488	0	913,488
Foundry	140,717	0	723,984	0	864,701
Other NonMSW	2,379,056	0	14,974	7,525	2,401,555
TOTAL	11,511,660	146,562	2,877,133	7,525	14,542,880

Table 7.

Annual Disposal at Solid Waste Land Disposal Facilities by Landfill Type and Waste Type

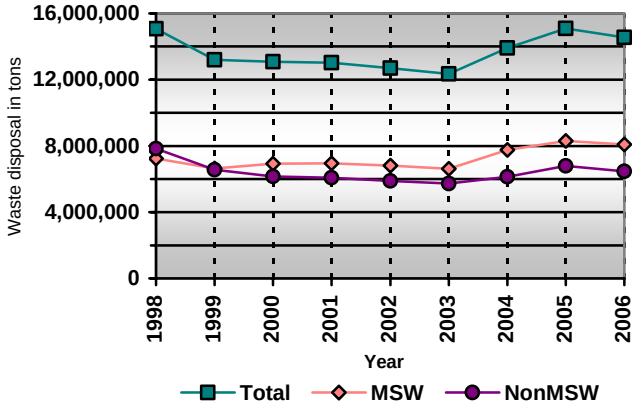
(Includes waste imports to Indiana)

Landfill Type	Waste Type	Tons of Waste Disposed								
		1998	1999	2000	2001	2002	2003	2004	2005	2006
Municipal Solid Waste Landfills	MSW	7,233,635	6,634,100	6,928,077	6,937,485	6,804,633	6,617,491	7,767,135	8,290,669	8,077,872
	NonMSW	2,901,949	2,821,091	2,331,200	2,328,151	2,098,482	2,262,761	2,559,497	2,948,638	3,433,788
	TOTAL	**10,135,584**	**9,455,191**	**9,259,277**	**9,265,636**	**8,903,115**	**8,880,252**	**10,326,632**	**11,239,307**	**11,511,660**
Construction /Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	195,723	229,010	146,536	127,680	118,664	170,149	350,291	278,611	146,562
	TOTAL	**195,723**	**229,010**	**146,536**	**127,680**	**118,664**	**170,149**	**350,291**	**278,611**	**146,562**
Restricted Waste Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	4,689,484	3,438,190	3,525,067	3,551,753	3,547,708	3,263,520	3,218,770	3,556,637	2,877,133
	TOTAL	**4,689,484**	**3,438,190**	**3,525,067**	**3,551,753**	**3,547,708**	**3,263,520**	**3,218,770**	**3,556,637**	**2,877,133**
Non-municipal Solid Waste Landfills	MSW	0	0	0	4,381	0	0	0	0	0
	NonMSW	41,264	71,131	140,201	70,468	117,284	22,568	10,803	12,878	7,525
	TOTAL	**41,264**	**71,131**	**140,201**	**74,849**	**117,284**	**22,568**	**10,803**	**12,878**	**7,525**
All Landfills	MSW	7,233,635	6,634,100	6,928,077	6,941,866	6,804,633	6,617,491	7,767,135	8,290,669	8,077,872
	NonMSW	7,828,420	6,559,422	6,143,004	6,078,052	5,882,138	5,718,998	6,139,360	6,796,764	6,465,008
	TOTAL	**15,062,055**	**13,193,522**	**13,071,081**	**13,019,918**	**12,686,771**	**12,336,489**	**13,906,496**	**15,087,433**	**14,542,880**

Figure 6.

Annual Disposal at All Solid Waste Land Disposal Facilities

(Includes waste imports to Indiana)



(Excludes direct imports to Indiana landfills)

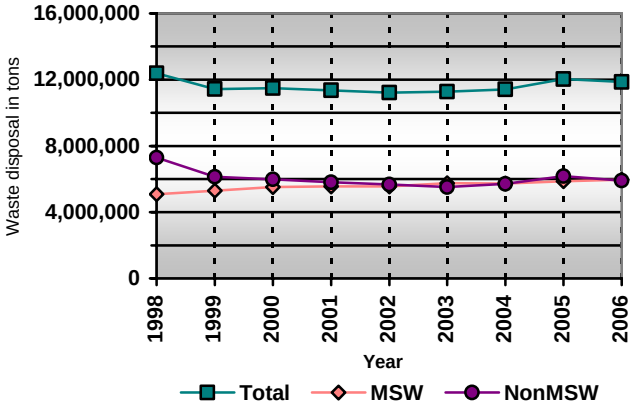


Table 8.

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								
		1998	1999	2000	2001	2002	2003	2004	2005	2006
Municipal Solid Waste Landfills	MSW	5,080,056	5,297,116	5,515,530	5,546,617	5,555,518	5,754,129	5,719,373	5,864,329	5,950,139
	NonMSW	2,407,182	2,439,624	2,166,705	2,053,755	1,902,596	2,127,281	2,350,077	2,488,859	2,921,750
	TOTAL	**7,487,238**	**7,736,740**	**7,682,235**	**7,600,372**	**7,458,114**	**7,881,410**	**8,069,450**	**8,353,188**	**8,871,889**
Construction /Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	166,489	205,432	144,976	126,264	97,236	105,576	124,275	110,643	101,638
	TOTAL	**166,489**	**205,432**	**144,976**	**126,264**	**97,236**	**105,576**	**124,275**	**110,643**	**101,638**
Restricted Waste Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	4,689,484	3,438,190	3,525,067	3,551,753	3,547,708	3,263,521	3,218,770	3,556,637	2,877,133
	TOTAL	**4,689,484**	**3,438,190**	**3,525,067**	**3,551,753**	**3,547,708**	**3,263,521**	**3,218,770**	**3,556,637**	**2,877,133**
Non-municipal Solid Waste Landfills	MSW	0	0	0	4,381	0	0	0	0	0
	NonMSW	38,860	49,300	139,966	67,739	112,793	22,568	10,803	12,878	7,525
	TOTAL	**38,860**	**49,300**	**139,966**	**72,120**	**112,793**	**22,568**	**10,803**	**12,878**	**7,525**
All Landfills	MSW	5,080,056	5,297,116	5,515,530	5,550,998	5,555,518	5,754,129	5,719,373	5,864,329	5,950,139
	NonMSW	7,302,015	6,132,546	5,976,714	5,799,511	5,660,333	5,518,946	5,703,925	6,169,017	5,908,046
	TOTAL	**12,382,071**	**11,429,662**	**11,492,244**	**11,350,509**	**11,215,851**	**11,273,075**	**11,423,298**	**12,033,346**	**11,858,185**

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 2006

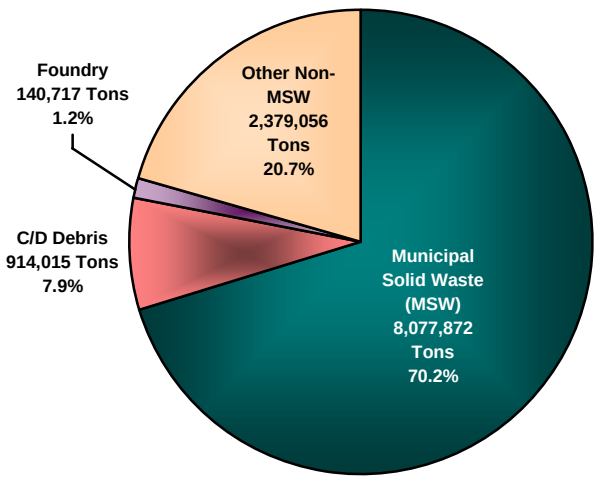
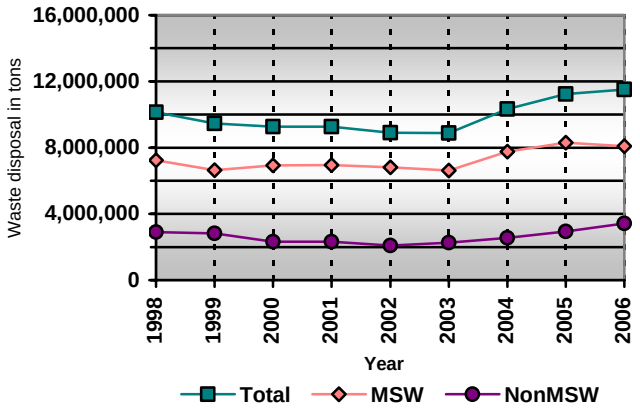


Figure 8.
Annual Disposal at Municipal Solid Waste Landfills

(Includes waste imports to Indiana)



(Excludes direct imports to Indiana landfills)

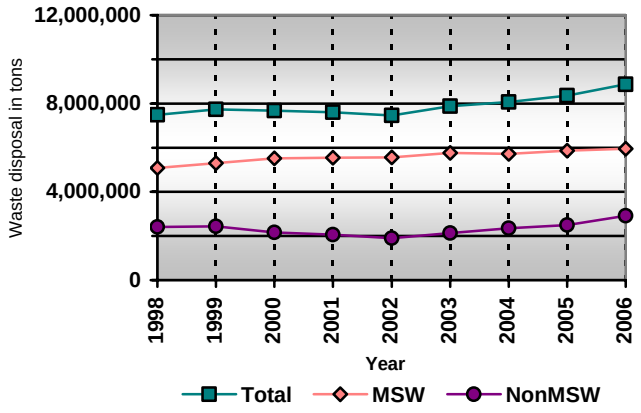


Figure 8 shows the municipal waste, non-municipal waste, and total disposal figures for MSW landfills in Tables 7 and 8 in graph form, similarly to Figure 6, which shows this for all landfills. Again, this is to more clearly depict disposal trends year-to-year.

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

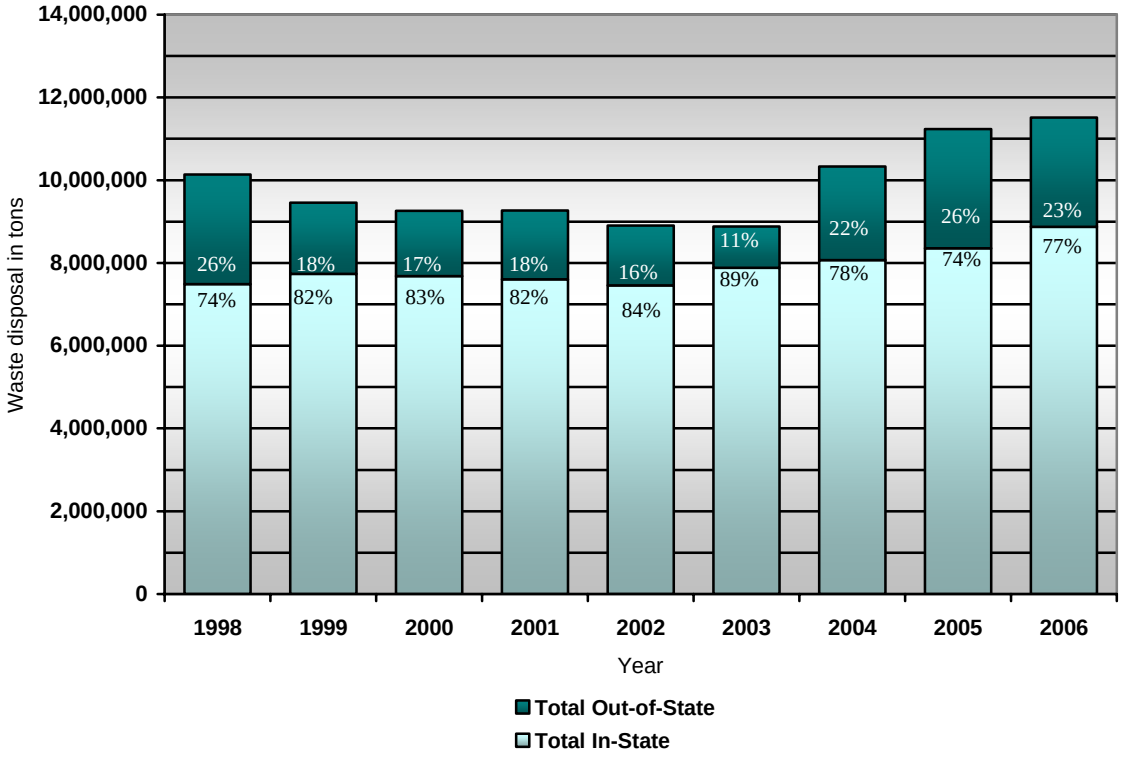


Figure 10 shows the distribution of disposal among MSW landfills. Note that 34% (or 11) of MSW landfills accepted less than 100,000 tons of solid waste.

Figure 10.
Distribution of Disposal at Municipal Solid Waste Landfills During 2006

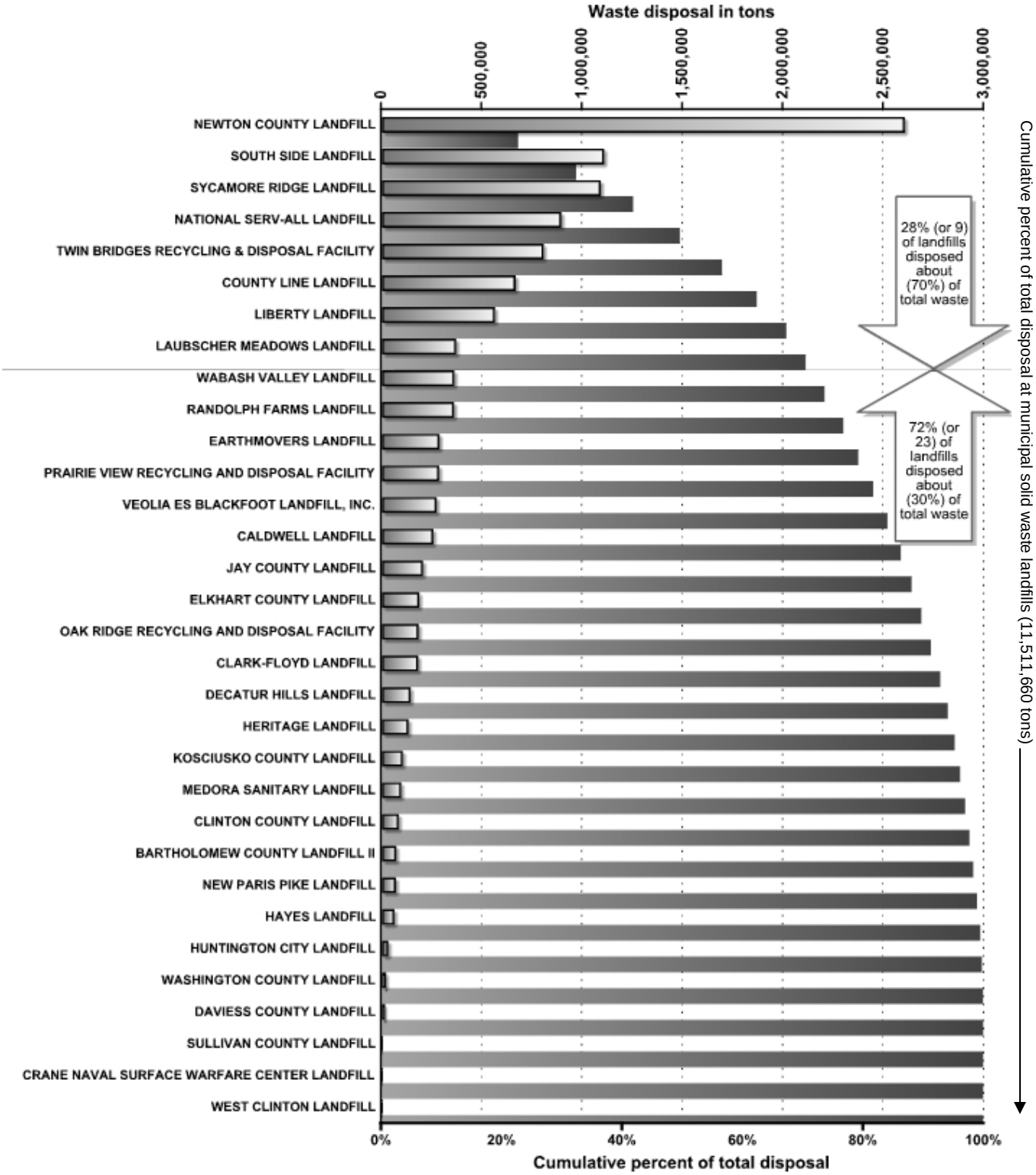


Table 9 summarizes total disposal at individual MSW landfills during 2006. More detailed disposal data for all solid waste disposal facilities is in a separate report entitled "2006 Solid Waste Facility Profiles."

Table 9.

Total Disposal at Municipal Solid Waste Landfills During 2006

County Location of Facility	Facility Name	Waste Disposal (Tons)	Number of Operating Days	Disposal per Operating Day (Tons)
Allen	National Serv-All Landfill	893,716	315	2,837
Bartholomew	Bartholomew County Landfill II	71,353	307	232
Cass	Oak Ridge Recycling And Disposal Facility	182,865	310	590
Clark	Clark-Floyd Landfill	181,079	307	590
Clinton	Clinton County Landfill	83,621	254	329
Daviess	Daviess County Landfill	16,204	302	54
Decatur	Decatur Hills Landfill	142,646	307	465
Elkhart	Earthmovers Landfill	286,759	307	934
Elkhart	Elkhart County Landfill	186,029	289	644
Fulton	County Line Landfill	665,594	306	2,175
Hendricks	Twin Bridges Recycling & Disposal Facility	804,876	310	2,596
Henry	Hayes Landfill	62,039	302	205
Huntington	Huntington City Landfill	32,029	267	120
Jackson	Medora Sanitary Landfill	96,016	310	310
Jay	Jay County Landfill	204,918	262	782
Kosciusko	Kosciusko County Landfill	104,183	255	409
Marion	South Side Landfill	1,106,959	310	3,571
Martin	Crane Naval Surface Warfare Center Landfill	3,002	248	12
Newton	Newton County Landfill	2,604,061	306	8,510
Pike	Veolia ES Blackfoot Landfill	272,368	306	890
Putnam	Heritage Landfill	132,507	269	493
Randolph	Randolph Farms Landfill	359,330	310	1,159
St Joseph	Prairie View Recycling And Disposal Facility	284,275	260	1,093
Shelby	Caldwell Landfill	255,578	365	700
Sullivan	Sullivan County Landfill	4,252	258	16
Vanderburgh	Laubscher Meadows Landfill	369,989	306	1,209
Vermillion	West Clinton Landfill	1,681	306	5
Vigo	Sycamore Ridge Landfill	1,090,013	311	3,505
Wabash	Wabash Valley Landfill	361,129	307	1,176
Washington	Washington County Landfill	20,350	276	74
Wayne	New Paris Pike Landfill	69,554	252	276
White	Liberty Landfill	562,685	307	1,833
Total for all Municipal Sold Waste Landfills		**11,511,660**		

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 2006. 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

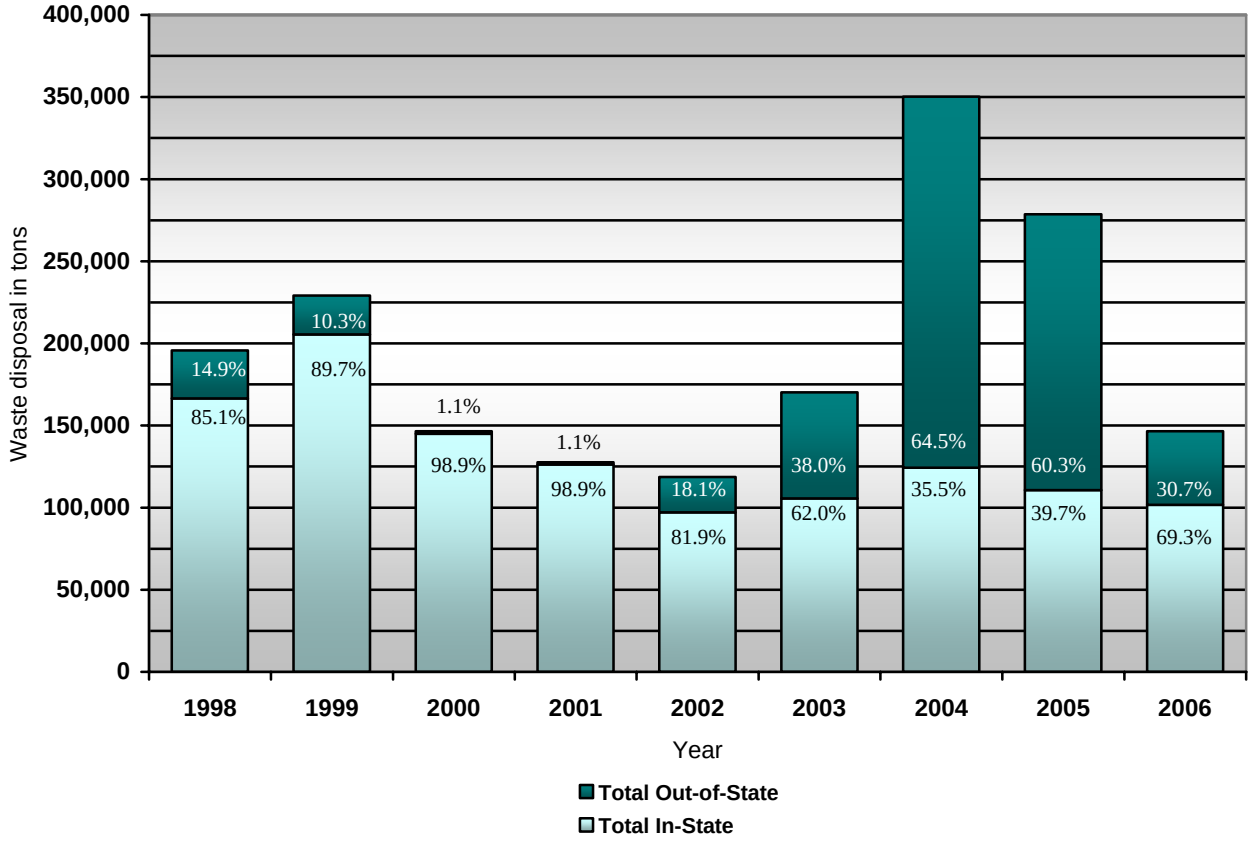


Table 10.
Total Disposal at Construction-Demolition Sites During 2006

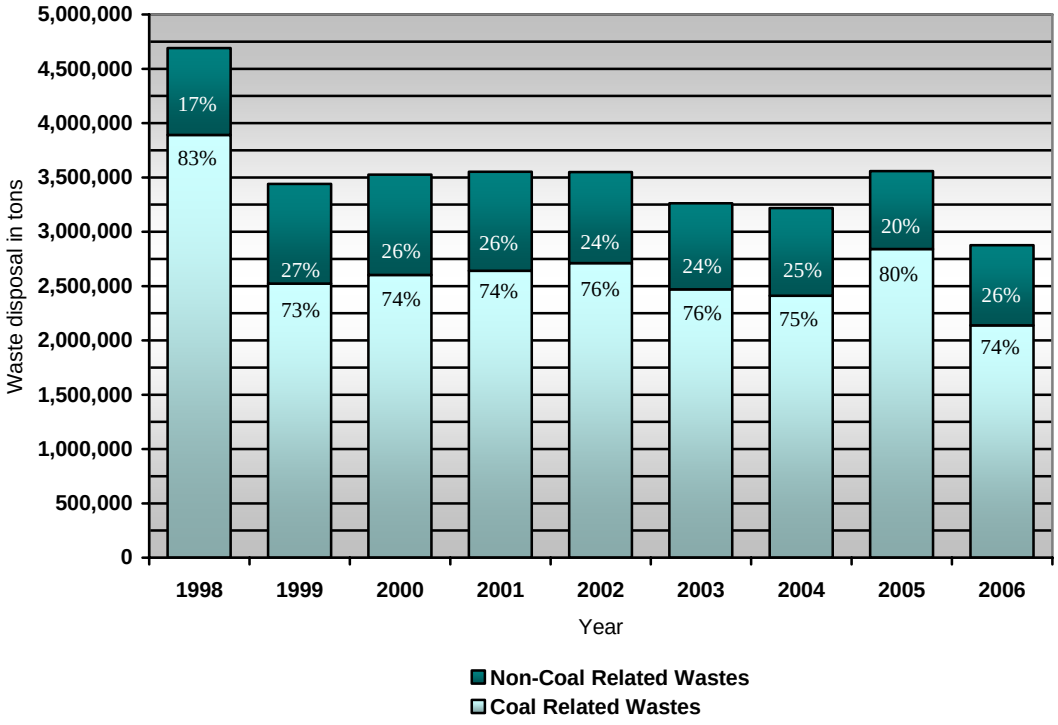
County Location of Facility	Facility Name	Waste Disposal in Tons
Bartholomew	City Garage Construction/Demolition Disposal Site	7,237
Elkhart	Warner & Sons Inc. C/D Site	9,397
Lake	Lake County C/D Site	66,547
Martin	Crane Naval Surface Warfare Center C/D Site	4,136
Pike	Velpen Solid C/D Site	19,588
Posey	Springfield Environmental C/D Site	22,493
Vermillion	West Clinton II C/D Site	17,164
Total for All Construction-Demolition Sites:		**146,562**

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 45 percent of the total tonnage disposed at restricted waste sites in 2006 (Figure 12). 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).

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 2006.

Table 11.
Total Disposal at Restricted Waste Sites During 2006[1]

County Location of Facility	Facility Name	Waste Disposal in Tons
Fountain	Harrison Steel Cast RWS 3	98,951.00
Gibson	Gibson Station Scrubber RWS 2	83,183.00
Jasper	R M Schahfer Generating Station RWS 1	172,879.08
Jefferson	Clifty Creek Coal Ash Disposal RWS 3	149,815.00
Knox	Scepter RWS 1	35,185.96
Kosciusko	Dalton Foundry RWS 3	77,439.00
Lake	U.S. Steel - Gary Works RW 1	266,995.00
Lawrence	Lehigh Portland Cement Co RWS 1	1,774.00
Noble	Dalton Corp. Kendallville Mfg. Fac. Monofill RWS 3	26,338.00
Perry	Waupaca Foundry RWS 3	189,088.00
Pike	IPL Petersburg Generating Station RWS 3	3,360.00
Posey	SIGECO Filter Cake Disposal RWS 3	240,703.00
Spencer	Rockport Plant Ash RWS 2	605,965.88
Sullivan	Merom Station RWS 2	895,469.00
Wabash	Ford Meter Box RWS 2	3,116.70
Wabash	Wabash Alloys RWS 1	26,870.00
Total for All Restricted Waste Sites:		2,877,133

(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 2006 and the total amount of waste it received.

Table 12.
Total Disposal at Non-municipal Solid Waste Landfills During 2006

County Location of Facility	Facility Name	Waste Disposal in Tons
Monroe	Dillman Road Waste Water Treatment Plant Landfill	7,525
Total for All Non-municipal Landfills:		**7,525**

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 2006. Table 14 displays similar information from 1998 through 2006 for municipal and non-municipal waste. More detailed data for all solid waste processing facilities is provided in a separate report entitled "2006 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 2006

Waste Type	Tons of Waste Received	
	Incinerators[1]	Transfer Stations
Municipal	622,348	3,157,228
C/D	0	465,151
Coal Ash	0	0
FGD Waste	0	0
Foundry	0	0
Other Non-MSW	44,202	76,131
TOTAL	**644,655**	**3,698,510**

[1] 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								
		1998	1999	2000	2001	2002	2003	2004	2005	2006
Incinerators[1]	MSW	670,380	669,718	632,880	636,072	646,621	697,634	647,911	622,348	600,183
	NonMSW	25,552	27,901	28,672	30,274	41,591	24,704	36,095	44,202	44,472
	TOTAL	695,932	697,619	661,552	666,346	688,212	722,338	684,007	666,550	644,655
Transfer Stations	MSW	1,753,009	1,935,432	2,230,153	2,282,366	2,384,806	2,544,071	2,879,650	3,122,682	3,157,228
	NonMSW	476,100	474,227	499,069	470,251	482,556	517,690	543,744	486,532	541,282
	TOTAL	2,229,109	2,409,659	2,729,222	2,752,617	2,867,362	3,061,761	3,423,394	3,609,214	3,698,510

[1] 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 2006 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 2006, there was about 168,400 tons of ash produced and delivered to the Southside Landfill for disposal. The ash produced is equivalent to about 26 percent of the waste received at Covanta.

Table 15.
Total Waste Received by Incinerators During 2006[1]

County Location of Facility	Facility Name	Waste Received in Tons
Marion	Indianapolis Resource Recovery Facility	644,655
Total for All Incinerators		**644,655**

[1] General Electric Ultem Thermal Oxidizer System did not accept any waste in 2006.

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 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.

Figure 13.
Transfer Station Waste Management

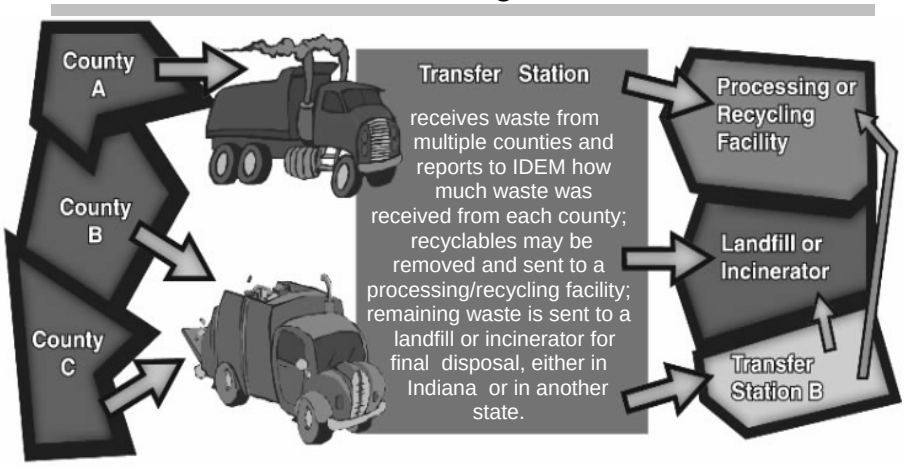


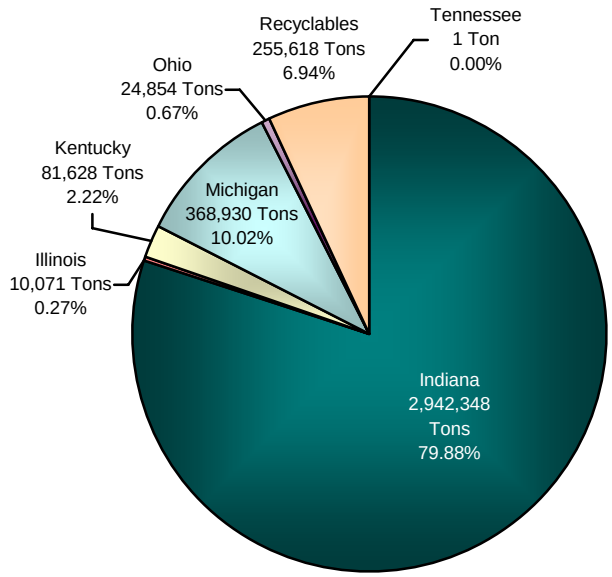
Table 16.
Destination of Waste Sent from Transfer Stations for Final Disposal

Year	Total Tons Sent to All Facilities	To Indiana Facilities		To Out-of-State Facilities	
		Tonnage	% of Total	Tonnage	% of Total
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
2006	3,427,832	2,942,348	85.8	485,484	14.2

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 1998 to 2006. Figure 14 shows a more detailed breakdown of the destination information for 2006. 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 "2006 Solid Waste Facility Profiles."

Figure 14.
Destination of Waste Sent from Transfer Stations During 2006



Other Processing Facilities

Other processing facilities permitted by IDEM could include paper and medical waste processing facilities. Six of the facilities operating during 2006 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).

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.

Figure 15.
Annual Waste Imports by Region of Origin

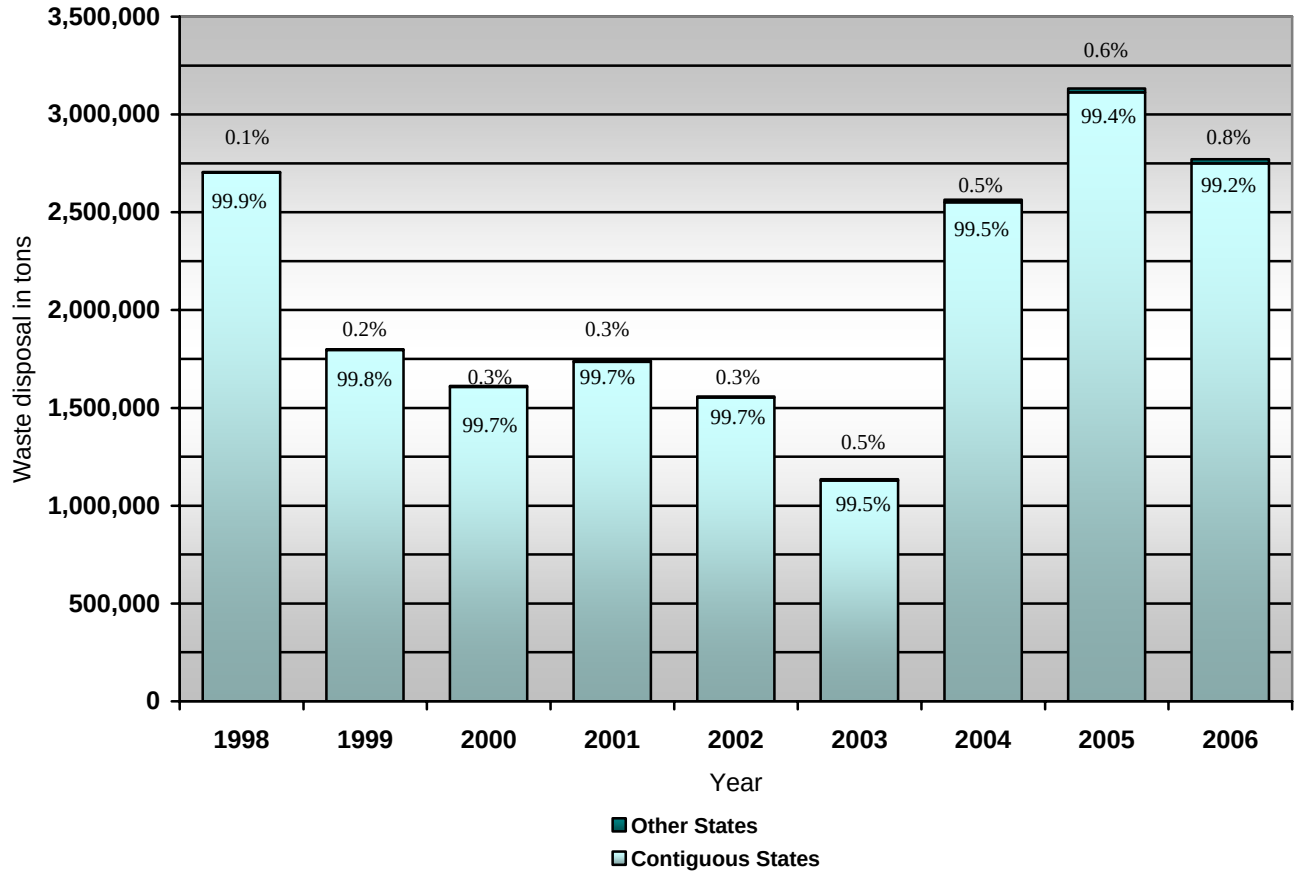


Table 17.
Out-of-State Waste Received During 2006[1]

Total Tons: 2,770,714

State County Name	Tons Received
ILLINOIS	**2,361,847**
ADAMS	1
BOONE	1
BUREAU	<1
CHAMPAIGN	70
CHRISTIAN	16
CLARK	903
CLAY	<1
CLINTON	<1
COLES	5
COOK	2,173,170
CRAWFORD	15,508
DE KALB	28
DE WITT	3
DOUGLAS	1
DU PAGE	1,498
EDGAR	19,302
EFFINGHAM	8
FAYETTE	<1
FORD	1
FRANKLIN	5
FULTON	1
GRUNDY	22
HANCOCK	<1
HENRY	16
IROQUOIS	454
JASPER	242
JEFFERSON	3
KANE	113
KANKAKEE	140,316
KENDALL	1
KNOX	51
LA SALLE	19
LAKE	1,660
LAWRENCE	791
LEE	5
LIVINGSTON	4
MACON	69
MACOUPIN	2
MADISON	134
MARION	178
MARSHALL	<1
MASON	2,138
MCHENRY	39
MCLEAN	83
MENARD	1
MORGAN	2
MOULTRIE	<1
OGLE	1
PEORIA	73
RICHLAND	<1
ROCK ISLAND	1
SANGAMON	108
ST. CLAIR	101
STEPHENSON	8
TAZEWELL	25
UNION	<1
VERMILION	545
WABASH	19
WAYNE	13
WHITE	19
WHITESIDE	6
WILL	3,896
WILLIAMSON	1
WINNEBAGO	161
WOODFORD	4

State County Name	Tons Received
OHIO	**153,979**
ALLEN	4,497
ASHLAND	6
AUGLAIZE	939
CHAMPAIGN	2,650
CLINTON	30
CUYAHOGA	293
DARKE	6,973
DEFIANCE	105
FRANKLIN	1,707
GREENE	1
GUERNSEY	3
HAMILTON	2,806
MERCER	13,070
MIAMI	93,479
MONTGOMERY	628
PAULDING	583
PREBLE	178
PUTNAM	14
SHELBY	7,508
SUMMIT	8
UNION	278
VAN WERT	17,624
WARREN	452
WILLIAMS	38
WOOD	109
KENTUCKY	**132,603**
BOONE	629
BRECKINRIDGE	4
BULLITT	91
CHRISTIAN	11
CLARK	71
DAVIESS	197
FAYETTE	65
HANCOCK	15
HARDIN	169
HENDERSON	76,016
HENRY	1,831
JEFFERSON	50,427
JESSAMINE	802
MARSHALL	2
MEADE	1
METCALFE	1
MONTGOMERY	3
MUHLENBERG	2
SCOTT	2,121
TAYLOR	1
UNION	21
WEBSTER	10
WHITLEY	113
MICHIGAN	**101,028**
ALLEGAN	157
BENZIE	<1
BERRIEN	2,609
BRANCH	75,405
CALHOUN	10
CASS	1,798
CLINTON	36
CRAWFORD	1
GRAND	20
HILLSDALE	18,869
JACKSON	9
KALAMAZOO	45
KALKASKA	<1
KENT	1,820
LAKE	<1

State County Name	Tons Received
MICHIGAN (con't)	
LIVINGSTON	14
MACOMB	19
MUSKEGON	22
NEWAYGO	<1
OAKLAND	29
OCEANA	<1
ROSCOMMON	1
ST. CLAIR	1
ST. JOSEPH	120
VAN BUREN	20
WASHTENAW	11
WAYNE	11
WEXFORD	1
IOWA	**7,126**
JOHNSON	7,039
POLK	87
WISCONSIN	**2,768**
COLUMBIA	1
DANE	25
DODGE	1
GRANT	<1
GREEN	<1
IOWA	<1
JEFFERSON	<1
KENOSHA	92
MILWAUKEE	310
OUTAGAMIE	69
OZAUKEE	30
PIERCE	<1
RACINE	<1
ROCK	27
SAUK	1
WALWORTH	2
WASHINGTON	1
WAUKESHA	2,209
WINNEBAGO	<1
TENNESSEE	**2,664**
HAMBLEN	8
MONTGOMERY	1
OBION	1
ROBERTSON	17
SHELBY	2,637
MISSOURI	**2,310**
BUCHANAN	170
CAPE	16
CLAY	54
FRANKLIN	129
JACKSON	1,115
PLATTE	4
RIPLEY	17
ST. CHARLES	606
ST. LOUIS	199
VIRGINIA	**1,332**
RICHMOND	1,332
NORTH	**911**
FORSYTH	911
PENNSYLVANIA	**791**
BUCKS	95
LANCASTER	44
MCKEAN	633
MONTGOMERY	20
WEST VIRGINIA	**786**
KANAWHA	71
PUTNAM	715

State County Name	Tons Received
CALIFORNIA	**559**
ALAMEDA	152
RIVERSIDE	407
NEW JERSEY	**515**
UNION	515
OREGON	**325**
MULTNOMAH	325
KANSAS	**322**
DONIPHAN	220
JOHNSON	101
NEW HAMPSHIRE	**216**
MERRIMACK	216
ARKANSAS	**141**
FAULKNER	2
PIKE	6
SALINE	133
MASSACHUSETTS	**98**
ESSEX	90
HAMPDEN	3
NORFOLK	2
SUFFOLK	3
MINNESOTA	**89**
HENNEPIN	76
WASHINGTON	13
ARIZONA	**83**
PINAL	83
TEXAS	**49**
DALLAS	31
HARRIS	4
NAVARRO	3
TARRANT	9
WOOD	2
NEW YORK	**47**
CLINTON	10
ONONDAGA	37
ALABAMA	**36**
SHELBY	36
CANADA	**28**
UNKNOWN	28
LOUISIANA	**26**
BOSSIER	5
LINCOLN	5
MOREHOUSE	10
ST. LANDRY	6
MISSISSIPPI	**15**
COAHOMA	2
DE SOTO	8
WASHINGTON	5
NEBRASKA	**9**
DOUGLAS	9
COLORADO	**4**
EL PASO	4
FLORIDA	**5**
HILLSBOROUGH	5
GEORGIA	**2**
FULTON	2

[1] About 12,611 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 2006. Figure 16 shows this information from 1998 through 2006. Illinois has been historically the largest source of waste imported to Indiana. In 2006, Illinois waste accounted for 85 percent of the out-of-state waste received by Indiana solid waste facilities. Ninety-two percent of that waste came from the Chicago area.

Figure 16.

Annual Waste Imports by State of Origin

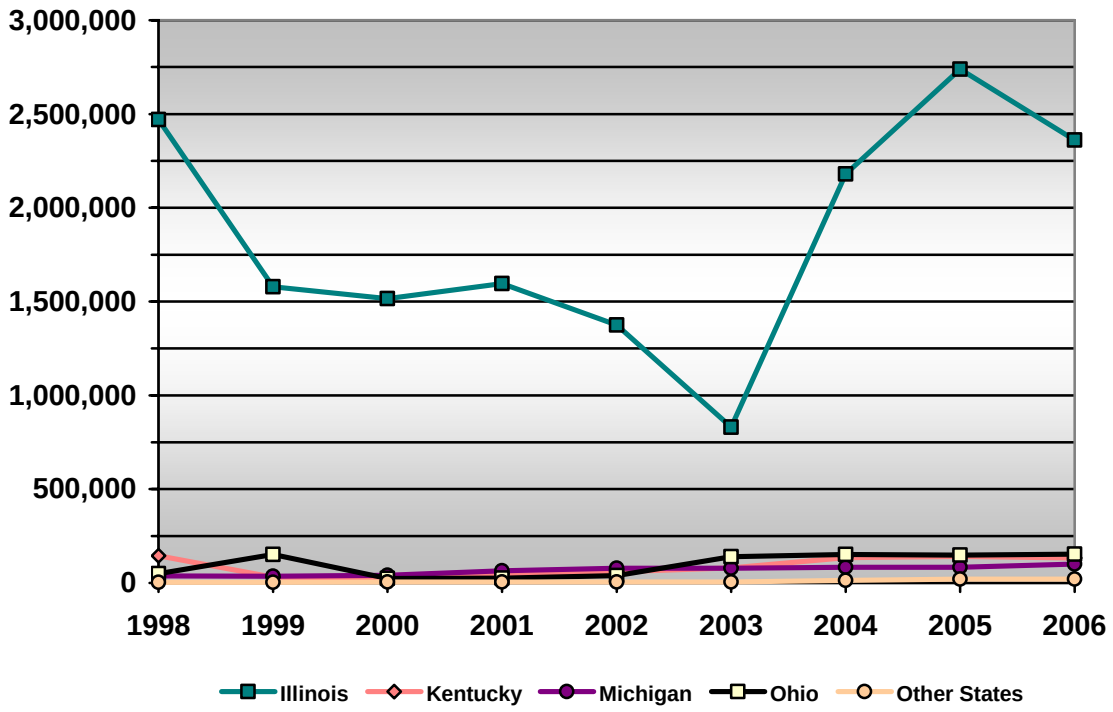


Table 18 displays the amount of out-of-state waste received by Indiana's permitted solid waste facilities by each reported waste type during 2006. Table 19 displays similar information from 1998 through 2006 for municipal and non-municipal waste. MSW landfills have consistently received most of the waste imported from other states.

Table 18.

Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type During 2006

Waste Type	Tons of Waste Received				
	Municipal Solid Waste Landfills	Construction/ Demolition Sites	Incinerators	Transfer Stations	All Facilities
Municipal	2,127,733	0	1,406	43,466	2,172,605
C/D	304,030	44,924	0	129	349,083
Foundry	7,273	0	0	0	7,273
Coal Ash	0	0	0	0	0
FGD Waste	0	0	0	0	0
Other Non-MSW	200,735	0	36,290	4,728	241,753
Total	2,639,771	44,924	37,696	48,323	2,770,714

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

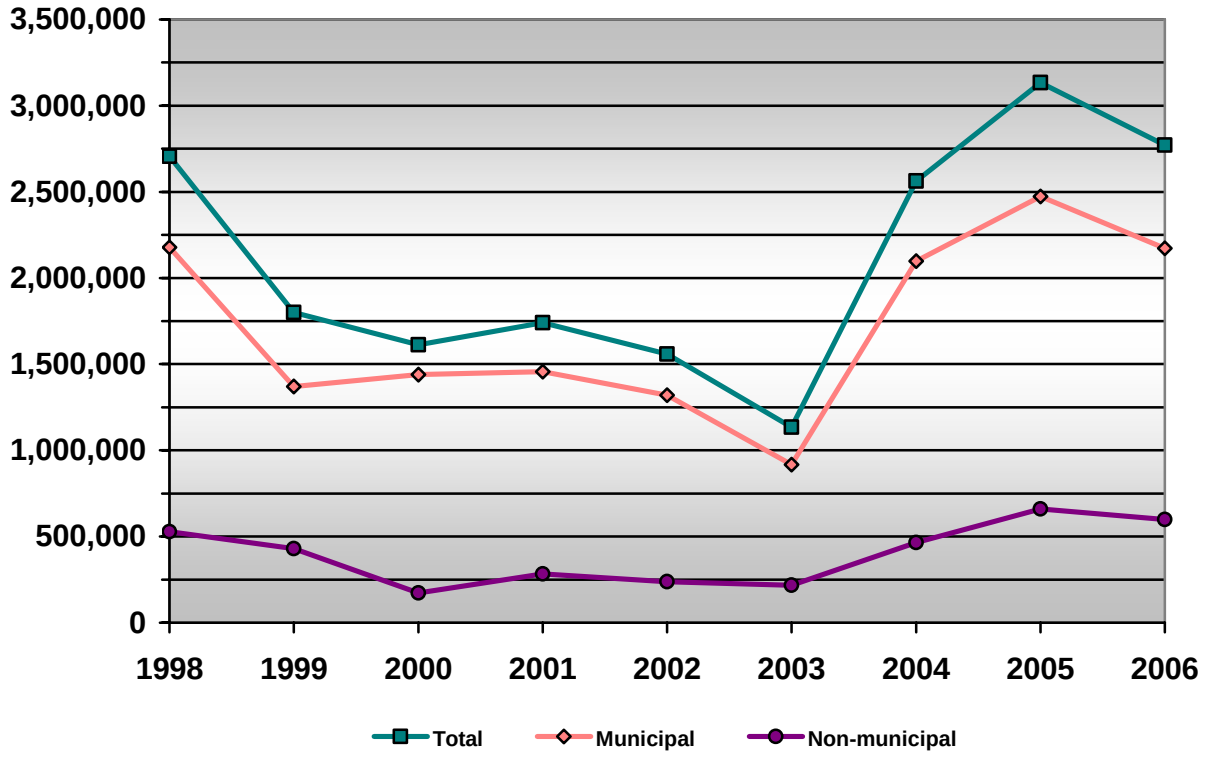


Table 19.

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								
		1998	1999	2000	2001	2002	2003	2004	2005	2006
Municipal Solid Waste Landfills[1]	MSW	2,153,579	1,336,984	1,412,547	1,390,868	1,249,114	863,363	2,047,762	2,426,340	2,127,733
	NonMSW	494,767	381,467	164,495	274,396	195,887	135,480	209,420	459,779	512,038
	TOTAL	2,648,346	1,718,451	1,577,042	1,665,264	1,445,001	998,843	2,257,182	2,886,119	2,639,771
Construction /Demolition Sites	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	29,234	23,578	1,560	1,416	21,428	64,573	226,016	167,968	44,924
	TOTAL	29,234	23,578	1,560	1,416	21,428	64,573	226,016	167,968	44,924
Non-Municipal Solid Waste Landfill	MSW	0	0	0	0	0	0	0	0	0
	NonMSW	2,404	21,831	235	2,729	4,491	0	0	0	0
	TOTAL	2,404	21,831	235	2,729	4,491	0	0	0	0
Incinerators (nonhospital)	MSW	5,488	11,603	9,851	11,815	1,345	211	1,723	2,498	1,406
	NonMSW	1,505	1,303	1,396	897	14,451	16,410	25,315	30,057	36,290
	TOTAL	6,993	12,906	11,247	12,712	15,796	16,621	27,038	32,555	37,696
Transfer Stations[2]	MSW	17,988	22,520	17,093	54,016	69,136	54,104	48,605	38,716	43,466
	NonMSW	737	683	4,724	3,641	2,078	736	4,721	2,121	4,857
	TOTAL	18,725	23,203	21,817	57,657	71,214	54,840	53,326	40,837	48,323
All Facilities	MSW	2,177,055	1,371,107	1,439,491	1,456,699	1,319,595	917,679	2,098,090	2,467,553	2,172,605
	NonMSW	528,647	428,862	172,410	283,079	238,335	217,199	465,471	659,925	598,109
	TOTAL	2,705,702	1,799,969	1,611,901	1,739,778	1,557,930	1,134,878	2,563,561	3,127,478	2,770,714

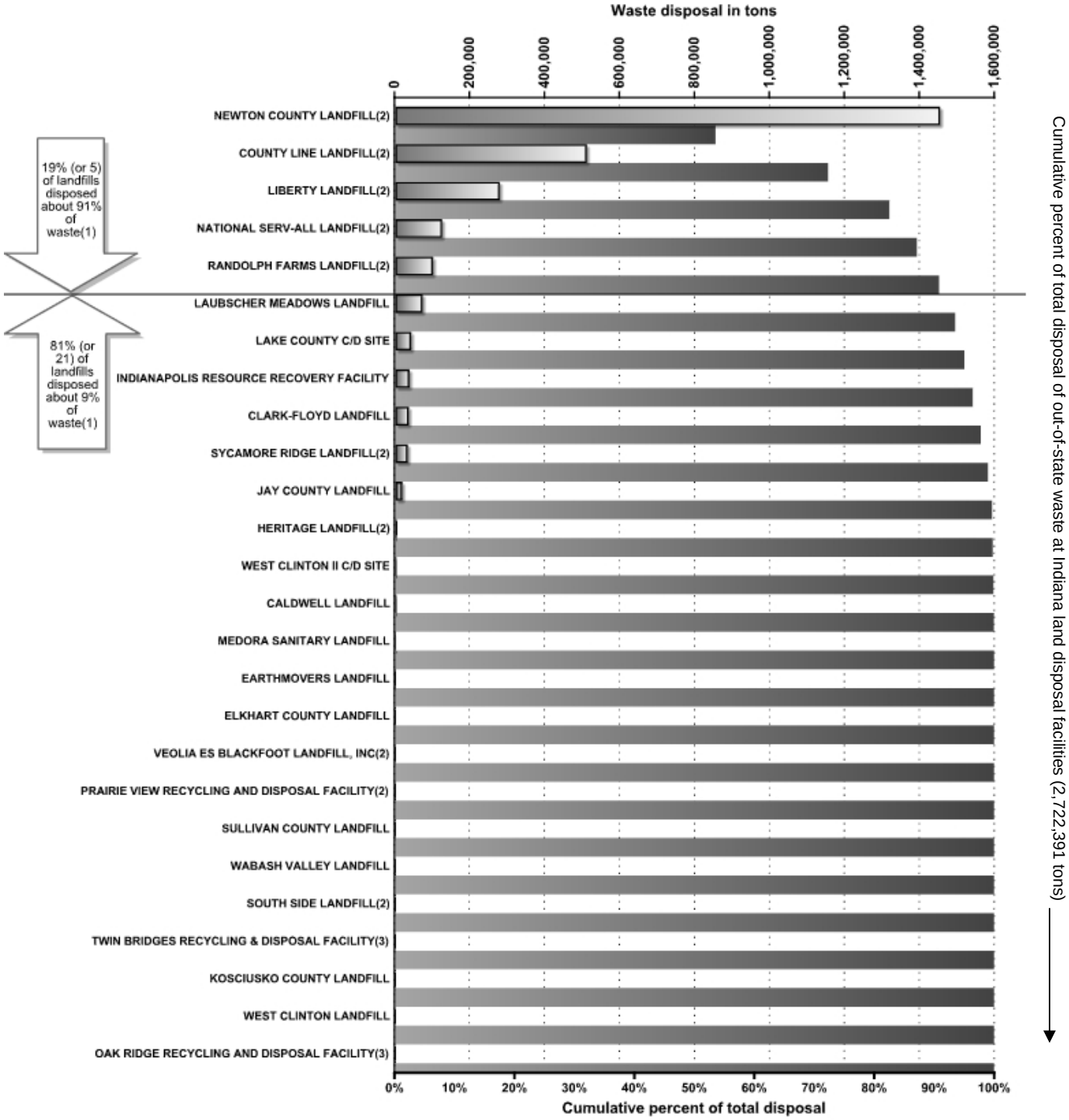
[1] This reflects only out-of-state waste shipped directly to MSW landfills. Most of the out-of-state waste received by transfer stations was sent to Indiana MSW landfills for final disposal. However, these MSW landfills reported the origin of this out-of-state waste as the county in which the transfer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

[2] 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 26 facilities that received out-of-state waste during 2006, five (19%) disposed of 91% of that waste. Ninety-one percent of the imported waste received by these five facilities was from Illinois. The other 21 facilities (81%) disposed of the remaining 9% of the imported waste.

Figure 18.

Distribution of Disposal of Out-of-State Waste Disposed at Indiana Solid Waste Facilities During 2006



(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 2006. 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 "2006 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 2006

County Location of Facility	Facility Name	Type of Facility	Tons of Out-of-State Waste Received
Allen	National Serv-All Landfill	MSW Landfill	124,903
Clark	Clark-Floyd Landfill	MSW Landfill	35,916
Clark	Bi-Co Transfer Station	Transfer Station	12,304
Delaware	East Central Recycling Transfer Station	Transfer Station	254
Elkhart	Earthmovers Landfill	MSW Landfill	1,290
Elkhart	Elkhart County Landfill	MSW Landfill	577
Fulton	County Line Landfill	MSW Landfill	511,031
Harrison	Gray's Disposal Service Transfer Station	Transfer Station	1
Jackson	Medora Sanitary Landfill	MSW Landfill	1,886
Jay	Jay County Landfill	MSW Landfill	18,588
Johnson	Liquid Waste Removal Processing Facility	Processing Facility - Other	51
Knox	Jamax Transfer Station	Transfer Station	1,287
Kosciusko	Kosciusko County Landfill	MSW Landfill	15
Lagrange	Scott Resource Recovery And Transfer Facility	Transfer Station	36
Lake	Illiana Transfer #3	Transfer Station	185
Lake	Illiana Transfer #1	Transfer Station	17,818
Lake	Lake County C/D Site	Construction/Demolition Site	42,280
Lake	Waste Management Of Northwest Indiana Transfer	Transfer Station	225
Lake	Midwest Medical Solutions	Processing Facility - Other	8,194
LaPorte	Waste Management Of Laporte Transfer Station	Transfer Station	2,070
Marion	South Side Landfill	MSW Landfill	23
Marion	Indianapolis Resource Recovery Facility	Incinerator	37,696
Marion	Ecological Systems Inc Processing Facility	Processing Facility - Other	2,166
Newton	Newton County Landfill	MSW Landfill	1,453,886
Noble	Kendallville Iron And Metal Transfer Station	Transfer Station	2
Pike	Veolia ES Blackfoot Landfill, Inc.	MSW Landfill	321
Porter	Able Disposal Recycling & Transfer Station	Transfer Station	356
Putnam	Heritage Landfill	MSW Landfill	3,289
Randolph	Randolph Farms Landfill	MSW Landfill	100,540
St Joseph	Prairie View Recycling And Disposal Facility	MSW Landfill	283
Shelby	Caldwell Landfill	MSW Landfill	2,587
Sullivan	Sullivan County Landfill	MSW Landfill	103
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill	72,813
Vanderburgh	Veolia Es Solid Waste Midwest, Inc.	Transfer Station	3,197
Vermillion	West Clinton II C/D Site	Construction/Demolition Site	2,644
Vermillion	West Clinton Landfill	MSW Landfill	8
Vigo	Sycamore Ridge Landfill	MSW Landfill	33,148
Wabash	Wabash Valley Landfill	MSW Landfill	94
Warren	Tri-County Transfer Station	Transfer Station	159
White	Liberty Landfill	MSW Landfill	278,470
White	Liquid Solutions, Llc	Processing Facility - Other	18
	Total for All Facilities		2,770,714

Table 21.
Out-of-State Waste Received by Indiana Solid Waste Facilities During 2006

County	Facility Name	Facility Type	/----------Contiguous States----------/ IL	KY	MI	OH	Other States	Total Tons	% of Tons
Allen	National Serv-All Landfill	MSW Landfill	2,959	38	95,981	25,897	28	124,903	4.5%
Clark	Clark-Floyd Landfill	MSW Landfill		35,916				35,916	1.3%
Clark	Bi-Co Transfer Station	Transfer Station		12,304				12,304	0.4%
Delaware	East Central Recycling Transfer Station	Transfer Station				254		254	0.0%
Elkhart	Earthmovers Landfill	MSW Landfill			1,290			1,290	0.0%
Elkhart	Elkhart County Landfill	MSW Landfill			577			577	0.0%
Fulton	County Line Landfill	MSW Landfill	511,031					511,031	18.4%
Harrison	Gray's Disposal Service Transfer Station	Transfer Station		1				1	0.0%
Jackson	Medora Sanitary Landfill	MSW Landfill		1,850		36		1,886	0.1%
Jay	Jay County Landfill	MSW Landfill				18,588		18,588	0.7%
Johnson	Liquid Waste Removal Processing Facility	Processing Facility - Other	35	1		15		51	0.0%
Knox	Jamax Transfer Station	Transfer Station	1,287					1,287	0.0%
Kosciusko	Kosciusko County Landfill	MSW Landfill			5	10		15	0.0%
Lagrange	Scott Resource Recovery And Transfer Facility	Transfer Station			36			36	0.0%
Lake	Illiana Transfer #3	Transfer Station	185					185	0.0%
Lake	Illiana Transfer #1	Transfer Station	17,818					17,818	0.6%
Lake	Lake County C/D Site	Construction/ Demolition Site	42,280					42,280	1.5%
Lake	Waste Management Of Northwest Indiana Transfer Station	Transfer Station	225					225	0.0%
Lake	Midwest Medical Solutions	Processing Facility - Other	7,531		135		528	8,194	0.3%
LaPorte	Waste Management Of Laporte Transfer Station	Transfer Station			2,070			2,070	0.1%
Marion	South Side Landfill	MSW Landfill				23		23	0.0%
Marion	Indianapolis Resource Recovery Facility	Incinerator	6,256	5,951	198	8,417	16,874	37,696	1.4%
Marion	Ecological Systems Inc Processing Facility	Processing Facility - Other	614	23		2	1,527	2,166	0.1%
Newton	Newton County Landfill	MSW Landfill	1,453,886					1,453,886	52.5%
Noble	Kendallville Iron And Metal Transfer Station	Transfer Station			2			2	0.0%
Pike	Veolia ES Blackfoot Landfill, Inc.	MSW Landfill	30	291				321	0.0%
Porter	Able Disposal Recycling & Transfer Station	Transfer Station	29		327			356	0.0%
Putnam	Heritage Landfill	MSW Landfill	623	122	66	196	2,282	3,289	0.1%
Randolph	Randolph Farms Landfill	MSW Landfill				100,540		100,540	3.6%
St Joseph	Prairie View Recycling And Disposal Facility	MSW Landfill	36		247			283	0.0%
Shelby	Caldwell Landfill	MSW Landfill	2,482	104		1		2,587	0.1%
Sullivan	Sullivan County Landfill	MSW Landfill	103					103	0.0%
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill		72,813				72,813	2.6%
Vanderburgh	Veolia Es Solid Waste Midwest, Inc.	Transfer Station	8	3,189				3,197	0.1%
Vermillion	West Clinton II C/D Site	Construction/ Demolition Site	2,644					2,644	0.1%
Vermillion	West Clinton Landfill	MSW Landfill	8					8	0.0%
Vigo	Sycamore Ridge Landfill	MSW Landfill	33,148					33,148	1.2%
Wabash	Wabash Valley Landfill	MSW Landfill			94			94	0.0%
Warren	Tri-County Transfer Station	Transfer Station	159					159	0.0%
White	Liberty Landfill	MSW Landfill	278,470					278,470	10.1%
White	Liquid Solutions, Llc	Processing Facility - Other					18	18	0.0%
Total for All Facilities			**2,361,847**	**132,603**	**101,028**	**153,979**	**21,257**	**2,770,714**	

Figure 19.

Origin of Waste Disposed and Incinerated in Indiana During 2006

Total Waste Disposed and Incinerated in Indiana

Number of Final Disposal Facilities	Tons
57	**15,187,535**

Total Waste Received from Indiana Sources

Number of Final Disposal Facilities	Tons	% of Total Waste
57	**12,465,144**	**82.07%**

Total Waste Received from Out-of-State[1]

Number of Final Disposal Facilities	Tons	% of Total Waste
24	**2,722,391**	**17.93%**

Total Waste Received from Contiguous States

Number of Final Disposal Facilities	Tons	% of OOSW[2]
27	**2,703,207**	**99.30%**

Illinois

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
14	**2,333,956**	**85.73%**

Kentucky

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
8	**117,085**	**4.30%**

Michigan

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
8	**98,458**	**3.62%**

Ohio

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
9	**153,708**	**5.65%**

Total Waste Received from Non-contiguous States

Number of Final Disposal Facilities	Tons	% of OOSW[2]
3	**19,184**	**0.70%**

Midwest States

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
2	**11,864**	**0.44%**

Other States[3]

Number of Final Disposal Facilities Receiving Waste	Tons	% of OOSW[2]
3	**7,320**	**0.27%**

[1] Excludes an estimated 12,611 tons of out-of-state waste received by Indiana transfer stations to out-of-state final disposal facilities.

[2] OOSW means Out-of-State Waste.

[3] Includes 28 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.

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 about 245.5 million cubic yards. The overall remaining landfill life is calculated by taking the total remaining capacity divided by the total waste received in 2006; which is estimated to be 14.22 years. For comparison, the average landfill life is 18.21 years.

In 2005, the total remaining capacity for all Indiana MSW landfills was estimated to be just under 243 million cubic yards. The remaining life for all Indiana MSW landfills (based upon the 2005 volume of waste received) was estimated to be 14.41 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.

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.
2006 Total Municipal Solid Waste Landfill Remaining Capacity and Life

Total Remaining Capacity	**245,570,987.82**	**cubic yards**
Waste Received at MSW Landfills During 2006	11,511,660.00	tons
	17,267,490.00	cubic yards
Total Remaining Life	**14.22**	**years**
Average Remaining Life	18.21	years

Table 23.

2006 Remaining Landfill Capacity and Life by Permitted Municipal Solid Waste Landfill

County Location Of Facility	Facility Name	Remaining Capacity [1] (cu yd)	Remaining Life [2] (years)
Allen	National Serv-All Landfill	32,825,517.86	24.49
Allen	United Refuse Landfill [4] [5]	498,486.00	
Bartholomew	Bartholomew County Landfill II [5]	9,477,906.00	88.55
Cass	Oak Ridge RDF	3,277,471.45	11.95
Clark	Clark-Floyd Landfill	1,233,799.21	4.54
Clinton	Clinton County Landfill [6]	3,655,923.62	29.15
Daviess	Daviess County Landfill	887,037.41	36.49
Decatur	Decatur Hills Landfill	6,119,866.76	28.60
Elkhart	Earthmovers Landfill	5,190,732.12	12.07
Elkhart	Elkhart County Landfill	9,689,133.07	34.72
Fulton	County Line Landfill	13,492,733.11	13.51
Greene	Worthington Landfill [3]	3,852,418.78	
Hendricks	Twin Bridges RDF	17,847,078.80	14.78
Henry	Hayes Landfill	2,204,008.90	23.68
Huntington	Huntington City Landfill	1,006,028.72	20.94
Jackson	Medora Sanitary Landfill	126,464.99	0.88
Jay	Jay County Landfill	713,941.17	2.32
Kosciusko	Kosciusko County Landfill	93,900.62	0.60
Marion	South Side Landfill	9,903,384.71	5.96
Martin	Crane NSWC Landfill	27,805.23	6.17
Monroe	Monroe County Landfill [4]	313,925.79	
Newton	Newton County Landfill	28,723,095.56	9.51
Pike	Veolia ES Blackfoot Landfill	11,322,806.77	27.71
Putnam	Heritage Landfill [5]	5,720,000.00	28.78
Randolph	Randolph Farms Landfill	10,632,142.66	19.73
St Joseph	Prairie View RDF	10,183,154.66	23.88
Shelby	Caldwell Landfill	998,788.54	2.61
Sullivan	Sullivan County Landfill [5]	2,323,195.00	364.25
Vanderburgh	Laubscher Meadows Landfill	7,425,581.18	13.38
Vermillion	West Clinton Landfill [5]	14,000.00	5.55
Vigo	Sycamore Ridge Landfill	20,182,342.16	12.34
Wabash	Wabash Valley Landfill	11,330,197.61	20.92
Washington	Washington County Landfill	941,765.26	30.85
Wayne	New Paris Pike Landfill	7,423,526.84	71.15
White	Liberty Landfill	5,912,827.26	7.01

[1] Remaining capacity is remaining air space (15% daily cover & final cover volume removed) as of December 31, 2006
[2] Remaining life calculated at current waste intake rates using a 1.5 cy/ton conversion
[3] Site temporarily closed in 2006; received no waste
[4] No waste intake in 2006
[5] Remaining capacity was supplied by landfill
[6] Major modification in 2006 (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.

2006 Remaining Landfill Capacity for Permitted Municipal Solid Waste Landfills by Location and Range of Value