

# CRS Report for Congress

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## **Interstate Shipment of Municipal Solid Waste: 2004 Update**

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James E. McCarthy  
Specialist in Environmental Policy  
Resources, Science, and Industry Division

# Interstate Shipment of Municipal Solid Waste: 2004 Update

## Summary

This report, which replaces CRS Report RL31651, provides updated information on interstate shipment of municipal solid waste (MSW). Since the late 1980s, Congress has considered, but not enacted, numerous bills that would allow states to impose restrictions on interstate waste shipments, a step the Constitution prohibits in the absence of congressional authorization. Over this period, there has been a continuing interest in knowing how much waste is being shipped across state lines for disposal, and what states might be affected by proposed legislation. This report provides data useful in addressing these questions.

Total interstate waste shipments continue to rise due to the closure of older local landfills and the consolidation of the waste management industry. Slightly more than 39 million tons of municipal solid waste crossed state lines for disposal in 2003, an increase of 11% over 2001. Waste imports have grown significantly since CRS began tracking them in the early 1990s, and now represent 24.2% of the municipal solid waste disposed at landfills and waste combustion facilities. In the last 10 years, reported imports have increased 170%.

Pennsylvania remains, by far, the largest waste importer. The state received more than 9.1 million tons of MSW and 1.4 million tons of other non-hazardous waste from out of state in 2003. Most of this waste came from New York and New Jersey. Pennsylvania's waste imports represented 23% of the national total. Virginia, the second-largest importer, received 5.5 million tons in 2003, 40% less than the amount received by Pennsylvania. Michigan, the third-largest importer, received 4.5 million tons of MSW from out of state.

Imports to both Virginia and Michigan increased substantially in the last year — up about 1 million tons in each case. Nearly two-thirds of Michigan's total imports (about 2.8 million tons) came from the Canadian province of Ontario. These imports grew as the Toronto area closed its last remaining landfill. Other states showing major increases were Ohio, Illinois, New Jersey, Georgia, South Carolina, Tennessee, Oklahoma, and Texas. In all, 28 states had increased imports in the current report, and 10 states reported imports that exceeded 1 million tons.

While waste imports increased overall, several states (including Pennsylvania, Indiana, Iowa, and New York) reported sharp declines in imports in the current survey. Pennsylvania's imports fell for the second year in a row: about 1.5 million fewer tons of imports were received at Pennsylvania landfills in 2003 than in 2001. Factors causing this decline included the imposition of an additional \$5.00 per ton state fee on waste disposal and the absence of rail service at Pennsylvania landfills.

New York remains the largest *exporter* of waste, with New Jersey in second place. These two states account for 37% of all municipal solid waste crossing state lines for disposal. Six other states (Missouri, Illinois, Maryland, Massachusetts, Ohio, and Washington), the District of Columbia, and the Canadian province of Ontario also exported more than 1 million tons each.

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# Interstate Shipment of Municipal Solid Waste: 2004 Update

## Introduction<sup>1</sup>

This report provides updated information on interstate shipment of municipal solid waste. Concerned about increased waste imports, some states have attempted to regulate this commerce; federal courts, however, have declared these state restrictions unconstitutional. If states are to have such authority, congressional action is required.

Since the late 1980s, Congress has considered, but not enacted, numerous bills that would grant such authority.<sup>2</sup> Over this period, there has been a continuing interest in knowing how much waste is being shipped across state lines for disposal, and what states might be affected by proposed legislation. This report provides data useful in addressing these questions. It updates information provided in earlier CRS reports.<sup>3</sup>

The report presents information gathered through telephone contacts with solid waste officials in the 50 states, the District of Columbia, and the Canadian province of Ontario. The data obtained from these contacts are summarized in **Tables 1, 2, and 3**, and **Figures 1 and 2**. **Table 4** presents additional information, including the names and telephone numbers of state contacts, and in some cases weblinks to detailed reports on solid waste management in the specific state.

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<sup>1</sup> Linda Luther, Environmental Policy Analyst in the Resources, Science, and Industry Division of CRS, provided research assistance for this report.

<sup>2</sup> Legislation on interstate shipment of waste has been introduced in every Congress since the 100<sup>th</sup>. In the 104<sup>th</sup> Congress, the Senate passed S. 534. The bill would have granted states authority to restrict new shipments of municipal solid waste from out of state, if requested by an affected local government. In the 103<sup>rd</sup> Congress, both the House and Senate passed interstate waste legislation (H.R. 4779 and S. 2345), but lack of agreement on common language prevented enactment. For a discussion of the issues addressed in these bills, see CRS Report RS20106, *Interstate Waste Transport: Legislative Issues*.

<sup>3</sup> This report replaces CRS Report RL31651, *Interstate Shipment of Municipal Solid Waste: 2002 Update*. Earlier reports, now out of print but available directly from the author, were CRS Report RL31051, *Interstate Shipment of Municipal Solid Waste: 2001 Update*; CRS Report RL30409, *Interstate Shipment of Municipal Solid Waste: 2000 Update*; CRS Report 98-689, *Interstate Shipment of Municipal Solid Waste: 1998 Update*; CRS Report 97-349, *Interstate Shipment of Municipal Solid Waste: 1997 Update*; CRS Report 96-712, *Interstate Shipment of Municipal Solid Waste: 1996 Update*; CRS Report 95-570, *Interstate Shipment of Municipal Solid Waste: 1995 Update*; and CRS Report 93-743, *Interstate Shipment of Municipal Solid Waste*.

Not all states require reporting of waste imports, and very few track exports, so the available data are incomplete, and in some cases represent estimates rather than actual measurements. In a number of cases, faced with conflicting reports from exporters and importers or no quantitative data at all, we provided our best estimate, based on discussions with state officials or other sources.

Sixteen of the states provided data for a period other than calendar year 2003 — either their latest fiscal year or a different calendar year. This adds another layer of imprecision: we combined data for whatever was the latest reporting period, even though in these 16 cases, this meant combining data from different time periods. The exceptions from the 2003 reporting period are noted in the appropriate tables, but the reader should perhaps keep in mind that many of the totals reported here are our best estimate rather than precise figures.

## Total Shipments

The data show that total interstate waste shipments continue to rise:<sup>4</sup> imports in the current survey totaled 39.0 million tons, 17% of the 229.2 million tons of municipal solid waste generated in the United States.<sup>5</sup> Of municipal waste disposed (as opposed to recycled or composted), the percentage is even higher. EPA estimates that 68.0 million tons of municipal solid waste were recycled or composted in 2001, leaving 161.2 million tons to be disposed in landfills or incinerators. Of this amount, 24.2% crossed state lines for disposal.<sup>6</sup>

Between CRS's year 2002 report (reporting largely 2001 data) and the current survey (reporting generally 2003 data), imports increased 4.0 million tons, or 11%. Since 1993, reported imports have risen 170%, from 14.45 million tons in 1993 to 39.0 million tons in the current survey.

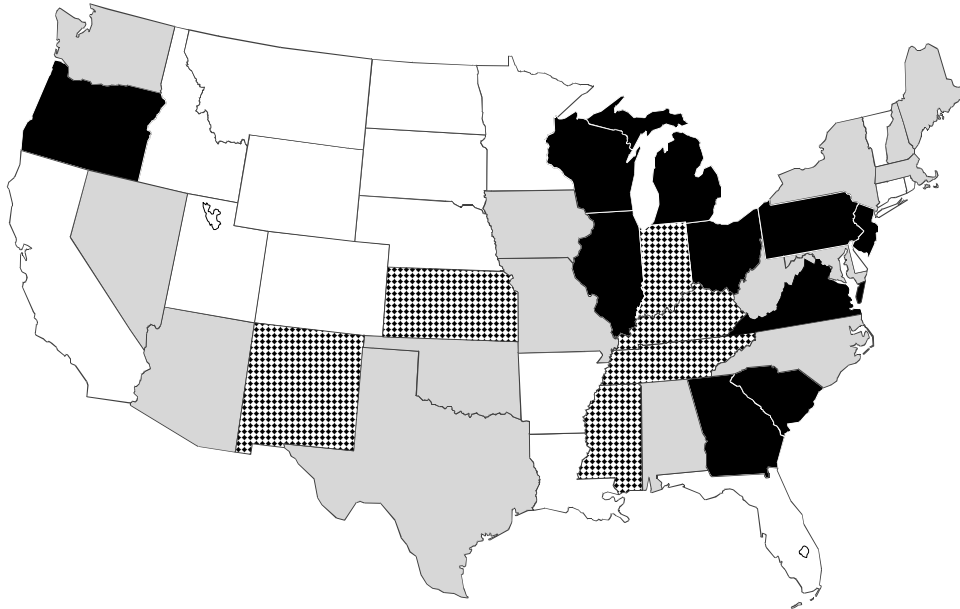
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<sup>4</sup> We rely on imports rather than exports as our measure of total shipments, because we believe that waste management facilities and states have a greater interest in accurately measuring imports than they do exports. Often the amounts received and their source are subject to formal legal reporting requirements and/or fees, with penalties for failure to report. Exports are not generally subject to such requirements.





<sup>5</sup> Because many of the larger importing states now differentiate MSW from other non-hazardous waste imports, we compared total MSW imports to EPA's national estimate of MSW generation (229.2 million tons in the latest available year, 2001). For EPA data on waste generation, see "Municipal Solid Waste: Basic Facts" at [<http://www.epa.gov/epaoswer/non-hw/muncpl/facts.htm>]. State-reported waste generation, summarized in *BioCycle* magazine's annual survey, is substantially higher (369.4 million tons in 2002) but may include other nonhazardous waste, provided it was disposed at MSW facilities. For state-reported data, see Scott M. Kaufman, Nora Goldstein, Karsten Millrath, and Nickolas J. Themelis, "The State of Garbage in America," *BioCycle*, January 2004, p. 33. Removing Canadian waste from the total imports would also reduce the percentage of waste crossing state lines for disposal, from 17% to 16%.

<sup>6</sup> Much of the waste destined for recycling may also have crossed state lines, but waste destined for recycling does not carry the same stigma as that sent for disposal, and recycling facilities do not generally require permits by state agencies. Thus, amounts shipped across state lines for recycling cannot generally be tracked by the solid waste agencies.

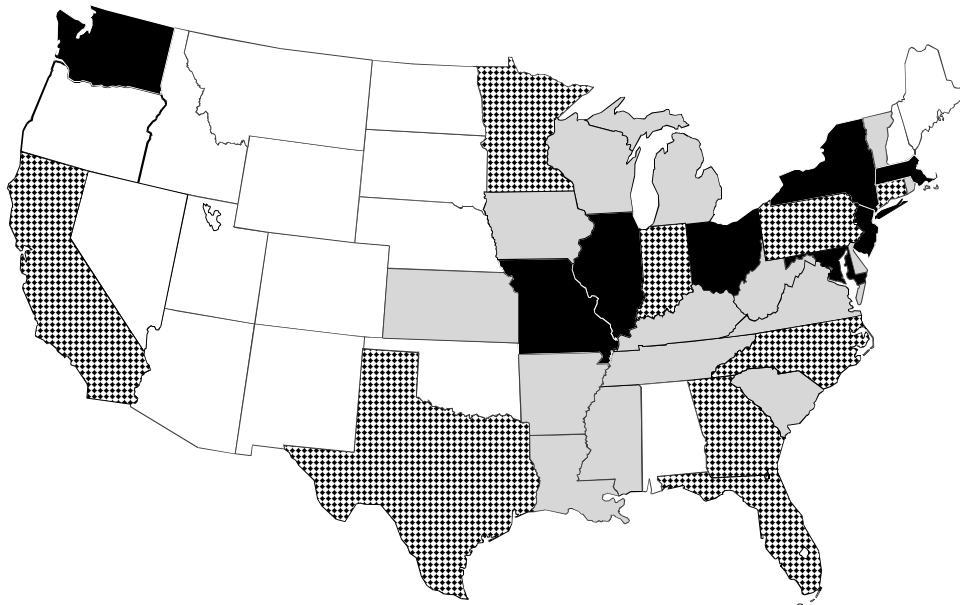
**Figure 1. Imports of Municipal Solid Waste, 2003 or Latest Year, in Tons**



Source: Map Resources. Adapted by CRS. (K. Yancey 8/31/04)

Amounts in Tons	
	1,000,000 or greater
	500,000 to 999,999
	100,000 to 499,999
	0 to 99,999

**Figure 2. Exports of Municipal Solid Waste, 2003 or Latest Year, in Tons**



Source: Map Resources. Adapted by CRS. (K. Yancey 8/31/04)

**Table 1. Imports of Municipal Solid Waste, 2003 or Latest Year**  
(in tons)

State	Quantity Imported
Pennsylvania	<sup>a</sup> 9,155,638
Virginia	<sup>b</sup> 5,489,170
Michigan	<sup>c,d</sup> 4,503,218
Ohio	2,541,074
Illinois	<sup>d</sup> 1,880,865
New Jersey	<sup>e</sup> 1,671,065
Georgia	1,445,254
Oregon	<sup>e</sup> 1,424,801
South Carolina	<sup>f</sup> 1,227,240
Wisconsin	1,210,008
Indiana	917,678
Kansas	<sup>e</sup> 697,874
Kentucky	<sup>e</sup> 598,549
Mississippi	579,752
Tennessee	577,940
New Mexico	537,000
Nevada	422,456
Alabama	<sup>c</sup> 415,425
New Hampshire	<sup>e</sup> 401,852
Arizona	<sup>g</sup> 379,900
Oklahoma	333,616
New York	311,417
West Virginia	276,439
Iowa	<sup>f</sup> 276,302
Texas	251,100
Maine	220,000
Missouri	206,873
Maryland	202,768
Massachusetts	179,852
North Carolina	<sup>f</sup> 133,145
Washington	<sup>e</sup> 112,097
North Dakota	<sup>e</sup> 101,196
Nebraska	<sup>f</sup> 93,563
Vermont	61,463
Connecticut	51,521
California	<sup>e</sup> 44,000
Montana	31,437
Idaho	18,668
Arkansas	15,361
Rhode Island	5,575
South Dakota	<sup>e</sup> 658
Utah	500
Total	39,004,310

<sup>a</sup> In addition, Pennsylvania received 1,407,834 tons of industrial waste, C&D, ash, asbestos, and sludge.

<sup>b</sup> Virginia also imported 1.1 million tons of other waste, mostly C&D, sludge, and incinerator ash.

<sup>c</sup> 10/1/2002 - 9/30/2003.

<sup>d</sup> Converted from cubic yards using 3.3 cu. yds. = 1 ton.

<sup>e</sup> 2002 data. <sup>f</sup> 7/1/2002 - 6/30/2003.

<sup>g</sup> 4/1/2003 - 3/31/2004.

**Source:** CRS, based on data provided by state program officials. See text and Table 4 for qualifications/details.

**Table 2. Exports of Municipal Solid Waste, 2003 or Latest Year**  
(in tons)

State	Quantity Exported
New York	8,247,610
New Jersey	5,803,184
Ontario, Canada	2,922,473
Missouri	2,334,511
Illinois	2,097,407
Maryland	1,941,370
Massachusetts	1,239,364
District of Columbia	1,176,010
Ohio	1,102,341
Washington	<sup>a</sup> 1,001,717
North Carolina	<sup>b</sup> 971,286
Indiana	945,241
California	798,056
Florida	676,517
Minnesota	<sup>a</sup> 611,044
Connecticut	634,155
Georgia	600,000
Pennsylvania	558,975
Texas	511,000
Tennessee	431,740
Kansas	371,371
West Virginia	364,719
Kentucky	328,993
Iowa	271,925
Louisiana	248,625
Virginia	240,633
Michigan	223,310
Wisconsin	213,989
South Carolina	184,797
Vermont	<sup>a</sup> 126,159
Delaware	121,585
Rhode Island	117,301
Arkansas	114,192
Mississippi	113,013
Oklahoma	99,000
Alabama	94,664
New Hampshire	65,000
Maine	<sup>a</sup> 49,868
Idaho	44,307
Alaska	24,868
Oregon	<sup>a</sup> 18,668
Nebraska	<sup>b</sup> 10,537
North Dakota	<sup>a</sup> 10,000
Nevada	3,300
Utah	1,500
Wyoming	1,487
Total	38,067,812

<sup>a</sup>2002 data.

<sup>b</sup> July 2002 - June 2003.

**Source:** CRS, based on data provided by state program officials. In many cases, the amount is based on data compiled by receiving states. See text and Table 4 entries for additional information and qualifications.



**Table 3. Net Imports/Exports of Municipal Solid Waste,  
2003 or Latest Year**

(in tons)

State	Imports	Exports	Net Imports/Exports
Pennsylvania	9,155,638	558,975	8,596,663
Virginia	5,489,170	240,633	5,248,537
Michigan	4,503,218	223,310	4,279,908
Ohio	2,541,074	1,102,341	1,438,733
Oregon	1,424,801	18,668	1,406,133
South Carolina	1,227,240	184,797	1,042,443
Wisconsin	1,210,008	213,989	996,019
Georgia	1,445,254	600,000	845,254
New Mexico	537,000	-	537,000
Mississippi	579,752	113,013	466,739
Nevada	422,456	3,300	419,156
Arizona	379,900	7,000	372,000
New Hampshire	401,852	65,000	336,852
Kansas	697,874	371,371	326,503
Alabama	415,425	94,664	320,761
Kentucky	598,549	328,993	269,556
Oklahoma	333,616	99,000	234,616
Tennessee	577,940	431,740	146,200
Maine	220,000	49,868	170,132
North Dakota	101,196	10,000	91,196
Nebraska	93,563	10,537	83,026
Iowa	276,302	271,925	4,377
Idaho	18,668	18,000	668
Utah	500	1,500	-1,000
Alaska	—	24,868	-24,868
Indiana	917,678	945,241	-27,563
Vermont	61,463	126,159	-64,696
West Virginia	276,439	364,719	-88,280
Arkansas	15,361	114,192	-98,831
Louisiana	—	107,075	-107,075
Rhode Island	5,575	117,301	-111,726
Delaware	—	121,585	-121,585
Illinois	1,880,865	2,097,407	-216,542
Texas	251,100	511,000	-259,900
Connecticut	51,521	634,155	-582,634
Minnesota	—	611,044	-611,044
Florida	—	676,517	-676,517
California	44,000	798,056	-754,056
North Carolina	133,145	971,286	-838,141
Washington	112,097	1,001,717	-889,620
Massachusetts	179,852	1,239,364	-1,059,512
District of Columbia	—	1,176,010	-1,176,010
Maryland	202,768	1,941,370	-1,738,602
Missouri	206,873	2,334,511	-2,127,638
New Jersey	1,671,065	5,803,184	-4,132,119
New York	311,417	8,247,610	-7,936,193

**Source:** CRS, based on telephone interviews. Data subject to qualifications: see text and Tables 1, 2, and 4.

## Waste Import Highlights

Twenty-eight states had increased imports of municipal waste since 2001, with the largest increases occurring in Virginia and Michigan. The increases in these two states, 1.4 million tons in Virginia and 0.9 million tons in Michigan over the two-year period, total 57% of the entire increase nationally.

The preponderance of these two states in the 2003 waste statistics demonstrates another element of the emerging picture of interstate waste shipment: 49% of total municipal waste imports are disposed in just three states: Pennsylvania, Virginia, and Michigan.

As shown in **Table 1**, Pennsylvania continues to be the largest waste importer. Disposal facilities in the state received 9.1 million tons of MSW and 1.4 million tons of other nonhazardous waste from out of state in 2003. The amounts represented nearly half of all solid waste disposed in the state and 23.5% of the national total for interstate shipments. Pennsylvania has abundant landfill capacity, relatively low tipping fees, and is near two major states that have a shortage of disposal capacity: New York and New Jersey.

Despite the state's continued predominance on the list of waste importers, Pennsylvania's imports declined in both 2002 and 2003 — a cumulative decrease of more than 1.5 million tons of MSW imports. This happened simultaneously with continued growth of interstate waste shipment in and through the Middle Atlantic states.

Several factors appear to have been at work. First, in the last two years, Pennsylvania imposed a new state fee of \$5.00 per ton on waste disposal. Added to pre-existing fees, the state now collects \$7.25 on each ton of waste disposed in the state. This may have provided sufficient economic incentive for some haulers to dispose elsewhere. Second, the state appears to be receiving less waste from New York City, whose Mayor has adopted a goal of shipping all of New York City's waste by rail, rather than truck. Pennsylvania has no landfills served by rail, so some of this waste has been diverted to large landfills in Virginia that do have rail service.

After Pennsylvania, Virginia is the largest waste importer, with imports totaling 5.5 million tons of MSW and 1.1 million tons of other nonhazardous waste. Waste imports to Virginia have increased sharply since 2001, as noted above. The state has attempted to restrict imports, but has not been as successful as Pennsylvania, in part because it has chosen a variety of measures that have run afoul of the Constitution's interstate commerce clause. These have included a ban on barge shipping of wastes on Virginia rivers, truck regulations that applied only to commercial solid waste transporters, and daily limits on the amount of waste that Virginia landfills could accept.<sup>7</sup>

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<sup>7</sup> See "Federal Appeals Court Strikes Majority of Virginia Restrictions on Trash Imports," *Daily Environment Report*, June 7, 2001, p. A-2. The case decided was *Waste Management Holdings, Inc. v. Gilmore*, 252 F.3d 316 (4<sup>th</sup> Cir 2001)..

Michigan, the third-largest waste importer for the past several years, saw out-of-state waste grow by 1.03 million tons in 2003, following a slight decline in 2002. Substantial amounts of waste come to Michigan from Illinois, Indiana, and other neighboring states; but the biggest source, accounting for 62% of Michigan's out-of-state waste, is Ontario, Canada. Ontario is, of course, also Michigan's neighbor, but the fact that it lies in a foreign country and that it has large expanses of open land where landfills might be sited seems to have added additional notoriety to its waste shipments. Ontario's shipments to Michigan have grown as the Toronto area awarded new contracts for waste disposal and closed its last two landfills. At the beginning of 1999, the Toronto area was generating about 2.8 million tons of waste annually, of which about 700,000 tons were shipped to Michigan. By early 2003, however, there was virtually no local disposal capacity in the Toronto area, and almost all of the waste was being shipped to Michigan, where large disposal sites offered very low cost disposal.

In other highlights:

- Ten states reported imports exceeding 1 million tons per year in the latest year, an increase of two from our last survey two years ago. New Jersey, Georgia, and South Carolina joined the "millionaires" in 2003, while Indiana went the other way, dropping below the million mark for the first time since 1995.
- In addition to the 10 states importing more than a million tons, another 22 states had imports exceeding 100,000 tons.
- For the fifth year in a row, New Jersey is on the list of major importers, with 1.67 million tons of MSW imports in 2002 (2003 data were not yet available). The state is still a major exporter of waste, as well: receiving states estimate New Jersey's exports at 5.8 million tons in 2003. But the absence of flow control (local government requirements that waste within their jurisdiction be disposed at local facilities, which were overturned by the courts in the mid-1990s) has led waste-to-energy facilities in New Jersey to import waste to replace the local waste that is now being disposed elsewhere. As a result, large amounts of waste are entering New Jersey from New York.
- Other states reporting major increases in imports were Ohio, Georgia, and South Carolina. Ohio has had a 1.5 million ton increase in MSW imports between 1998 and 2003, and appears poised to import even more, according to press reports and conversations with industry observers.<sup>8</sup> The state has prepared draft permits that would expand landfill capacity by 176 million tons,

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<sup>8</sup> See, for example, "Three Ohio Landfills Want More Garbage Trucked In," Cincinnati Enquirer, August 16, 2004, at [<http://www.enquirer.com>].

according to one analyst.<sup>9</sup> Georgia experienced a seven-fold increase, to 1.4 million tons over the same period; and South Carolina more than doubled imports (to 1.2 million tons) in the last two years.

- Oklahoma made its second appearance on our list of importers: the state reports that in September 2001, it began receiving 1,500 tons per day (about 500,000 tons per year) of waste from Wichita, Kansas. Some of this waste has since been diverted to a landfill in Topeka, Kansas, but Oklahoma's Red Carpet Landfill still imported nearly 334,000 tons of waste from Kansas in 2003, according to Kansas officials.
- Texas moved from 33<sup>rd</sup> to 25<sup>th</sup> on our list, with an import increase of 217,000 tons since 2001. Louisiana appeared to be the major source of the increased imports, sending more than 140,000 tons to a landfill in Newton, Texas, very near the Louisiana border.
- New York saw a big drop in waste imports following rapid growth in 2000 and 2001. The state had imported 839,700 tons of waste in 2001, an increase from 539,000 tons in our previous survey. But in this year's survey, imports declined sharply, totaling only 311,417 tons in 2003.
- Although there are no comprehensive data, imports to transfer stations<sup>10</sup> are a political issue in some locations. Transfer stations are generally located in urban areas and are subject to less stringent regulation than disposal facilities. Heavy truck traffic and odors have aroused concerns in some neighboring communities. Connecticut, Rhode Island, and the District of Columbia have reported significant amounts of out-of-state waste imported to transfer stations, then exported to other states for disposal. New York City's plan to export most of its waste to transfer stations in New Jersey raised substantial controversy, before being rescinded.

While waste imports increased overall, 14 states reported declines in waste imports. In several cases, the declines were small, but seven of the states (Pennsylvania, Indiana, Kentucky, New Mexico, Nevada, New York, and Iowa) had declines exceeding 100,000 tons.

## Major Exporters

As shown in **Table 2**, eight states (New York, New Jersey, Missouri, Illinois, Maryland, Massachusetts, Ohio, and Washington) and the District of Columbia each exported more than 1 million tons of waste to facilities in other states in the latest

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<sup>9</sup> Telephone conversation, September 2, 2004.

<sup>10</sup> Transfer stations receive waste from collection trucks, compact it, bale it, and load it on larger trucks for disposal elsewhere.

reporting period, and nine other states exported more than half a million tons. The Canadian province of Ontario also exported a substantial amount of municipal waste (nearly 3 million tons), most of it to Michigan.

New York, New Jersey, Missouri, Illinois, and Maryland, the five largest exporting states, accounted for 54% of waste exports nationally.

New York's exports rose to 8,247,610 tons in 2003, according to nine receiving states, an increase of 754,000 tons over 2001. The increase reflects the March 2001 closure of New York City's Fresh Kills Landfill — the city's last disposal facility.

New Jersey's estimated exports, 5.8 million tons, have also grown dramatically. In New Jersey's case, the cause of increased exports is the overturning of the state's flow control law, which, until 1997, directed much of the state's waste to high-cost local facilities for disposal. The state law was overturned and the state exhausted its appeals in October 1997. Exports have since grown by about 3.5 million tons per year.

Illinois' exports, at 2.1 million tons, declined by nearly 1 million tons in 2003, after several years of rapid growth. Despite the decline, the state's exports in 2003 were still more than double the amount reported for 1994.<sup>11</sup> Most of the exports originate in Cook County (Chicago and its suburbs), which has a relative shortage of disposal capacity. Illinois as a whole reported a more than doubling of landfill capacity between 1995 and 2003, but Chicago is located near the border of both Indiana and Wisconsin; so increases in capacity elsewhere in Illinois may not affect disposal decisions in the metropolitan area.

In all, 11 states, the District of Columbia, and Ontario, Canada increased waste exports by more than 100,000 tons each in the period, while 5 states had major decreases. In addition to New York, New Jersey, and Ontario (discussed above), Missouri, Kansas, Georgia, and Massachusetts showed the largest increases. Among states showing decreased exports, only Illinois showed a large drop.

## Net Imports and Exports

**Table 3** combines import and export data to rank the states by net amounts imported or exported. The table shows that 23 states were net importers, 22 plus the District of Columbia were net exporters. Thirty-five of the 50 states had net imports or exports exceeding 100,000 tons in the reporting period; 20 exceeded 500,000 tons. Perhaps most interesting, given the tendency to identify states as either exporters *or* importers, 23 states both exported *and* imported in excess of 100,000 tons of municipal solid waste (up from 17 in our 2002 report).

Several factors are at work here. In the larger states, there are sometimes differences in available disposal capacity in different regions within the state. Areas without capacity may be closer to landfills (or may at least find cheaper disposal

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<sup>11</sup> Illinois, like most states, does not report waste exports. This export estimate was derived from data provided by neighboring states.

options) in other states. A good example is Illinois: the Chicago area, which is close to two other states, exports significant amounts of waste out of state. Downstate, however, Illinois has substantial available landfill capacity, and imported 1.5 million tons from St. Louis and other locations in Missouri.

As noted earlier, the movement of waste also represents the regionalization and consolidation of the waste industry. In 2003, the three largest firms (Waste Management, Allied Waste, and Republic Services) accounted for 67% of total revenues of the industry's 100 largest firms.<sup>12</sup> These large firms offer integrated waste services, from collection to transfer station to disposal site, in many locations. Often, they ship waste to their own disposal facility across a border, rather than dispose of it at an in-state facility owned by a rival. As small landfills continue to close — the number of U.S. landfills declined 54% between 1993 and 2002, from 4,482 to 2,071<sup>13</sup> — this trend toward regionalization and consolidation is likely to continue. The amount of waste being shipped across state lines for disposal may rise in this process.

### **Additional Information**

The remainder of this report consists of a table summarizing waste import and export data, by state. All 50 states and the District of Columbia are listed in alphabetical order, with data for the amount of waste exported, destination of exports, amount of waste imported, source of imports, and a state agency contact for additional information.

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<sup>12</sup> “Waste Age 100,” *Waste Age*, June 2004, pp. 30-42.

<sup>13</sup> “The State of Garbage in America,” *BioCycle*, April 1994, p. 51, and January 2004, p. 39.

**Table 4. Amount and Destination of Exported MSW, and Amount and Sources of Imported MSW, by State**

<b>State</b>	<b>Amount of MSW Exported</b>	<b>Destination of Exported Waste</b>	<b>Amount of MSW Imported</b>	<b>Sources of Imported Waste</b>	<b>Additional Information</b>
Alabama	Mississippi reports receiving 94,664 tons of MSW from Alabama in 2003.	Besides Mississippi, very small amounts to Florida.	415,425 tons in FY03 (10/02 - 9/03), a decrease of 260,000 tons from FY02, but an increase compared to FY01.	Mostly from Georgia. Some from the Florida panhandle.	Larry Bryant, AL Dept. of Environmental Management (334) 271-7771
Alaska	24,868 tons in 2003, according to Alaska.	Washington.	No imports.	N.A.	Jennifer Roberts, AK Dept. of Environmental Conservation (907) 269-7553
Arizona	Arizona does not export significant amounts of MSW. There are small flows from border areas to New Mexico, Nevada, and Utah. Based on state estimates, CRS estimates total exports at 7,000 tons.	Arizona estimates that between 1,000 and 10,000 tons may flow to New Mexico; 1,200 tons to Nevada; and 500 tons to Utah.	379,900 tons in the period 4/03 - 3/04.	Nearly all (375,600 tons) from California. Small amounts from Nevada, New Mexico, and Utah.	David Janke, AZ Dept. of Environmental Quality (602) 771-4173
Arkansas	Three receiving states reported receiving 114,192 tons from Arkansas in 2003. In addition, Texas receives some Arkansas waste. Arkansas itself reported only 36,050 tons of exports.	84,698 tons to Missouri, 21,546 tons to Mississippi, 7,948 tons to Tennessee. < 25,000 tons to Texas.	State does not track imports, but believes that imports are relatively small and confined to border areas.	Missouri reported 15,361 tons shipped to Arkansas in 2003.	Doug Szenher, AR Dept. of Pollution Control and Ecology (501) 682-0915

## CRS-13

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
California	Receiving states report 798,056 tons of MSW shipped from California. Although exports are substantial, they represent less than 2% of the amount disposed in-state.	Nevada 422,456 tons Arizona 375,600 tons (4/03-3/04).	44,000 tons in 2002.	State does not keep track of where waste comes from.	Sherry Sala-Moore, CA Integrated Waste Management Board (916) 341-6204  <a href="http://www.ciwmb.ca.gov/Igcentral/drs/Reports/Statewide/SWTotals.asp">www.ciwmb.ca.gov/Igcentral/drs/Reports/Statewide/SWTotals.asp</a>
Colorado	State does not track exports. Very small amounts may be exported to neighboring states.	Kansas, Nebraska, New Mexico.	State does not track imports. Small amounts may be imported from Kansas and Nebraska.	Kansas, Nebraska.	Glenn Mallory, CO Dept. of Public Health and Environment (303) 692-3445
Connecticut	Five states report receiving 634,155 tons from Connecticut in 2003. Connecticut reports exports of 286,086 tons. It believes that the difference in reported amounts represents MSW direct-hauled out of the state without passing through transfer stations and C&D waste mixed in with MSW.	Pennsylvania-283,157 tons (45%) Ohio-234,311 tons (37%) Massachusetts-60,599 tons (10%) Michigan-31,102 tons (5%) New York-24,986 tons (4%).	Connecticut reports 51,521 tons of MSW imports in 2003.	Mass. 41,869 tons NY 9,597 tons NJ 55 tons	Judy Belaval, CT Dept. of Environmental Protection (860) 424-3237



## CRS-14

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Delaware	The state does not track MSW exports. However, receiving states, which have reported data for 2003, reported receiving 121,585 tons from Delaware in 2003.	Virginia-65,627 tons (54%) Pennsylvania-55,277 tons (45%) New York-681 tons (1%)	The state does not track MSW imports but claims it is likely a negligible amount. All MSW landfills in the state are owned by the state and are prohibited from accepting out-of-state waste.	N.A.	Nancy Markur, DE Dept. of Natural Resources and Environmental Control, (302) 739-3689
District of Columbia	Receiving states, which have reported data for 2003, reported receiving 1,176,010 tons in 2003, the bulk of which went to Virginia.	Virginia-1,175,881 tons (99.99%)  In 2002, some amount was sent to Maryland, but Maryland does not track totals by state of origin.	There are no disposal facilities in the District of Columbia, but DC has imported substantial amounts of waste from Maryland to transfer stations located in the District. This waste is then exported for disposal.	Maryland.	D.C. Dept. of Public Works, Solid Waste Division (202) 727-5907
Florida	The state does not track exports. Georgia reports receiving 676,517 tons of MSW from Florida in 2003. Exports are increasing, but still represent only 2% of Florida's waste generation.	Georgia. Small amounts to Alabama.	The state does not track imports. There is little incentive to import, since disposal is less expensive in Georgia.	Alabama reports that it ships very small amounts to a facility in the Florida panhandle.	Peter Goren, FL Dept. of Environmental Protection (850) 245-8714
Georgia	CRS estimates 600,000 tons of exports based on information available from three receiving states.	Alabama and South Carolina account for about 95% of the total. The rest goes to Tennessee. Exports to South Carolina have increased substantially.	1,445,254 tons in 2003. Waste imports have increased by 451,000 tons since FY2002.	47% of the waste comes from Florida, 29% from New Jersey, 7% from South Carolina, 6% from Rhode Island.	Scott Henson, GA Dept. of Natural Resources (404) 362-4533

## CRS-15

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Hawaii	No exports of MSW.	N.A.	No imports of MSW.	N.A.	Gary Siu, HI Dept. of Health (808) 586-4244
Idaho	Idaho does not track exports. Washington reports an estimated 18,000 tons of MSW from Idaho in 2002. Montana reports 26,307 tons in 2003.	Montana, Washington.	Idaho does not track imports. Oregon reported exports to Idaho of 18,668 tons of MSW in 2002.	Oregon and a very small amount from Nevada.	Dean Ehlert, ID Dept. of Environmental Quality (208) 373-0416
Illinois	Six neighboring states report receiving 2,097,407 tons of MSW from Illinois.	Wisconsin 777,983 tons; Indiana 668,161 tons (2002); Michigan 559,454 tons; Missouri 79,147 tons; Kentucky 8,754 tons; Iowa 3,908 tons.	The state reports 1,880,865 tons of imports in 2003. (Data converted from cubic yards to tons by CRS.)	Missouri (78%); Iowa (15%); Wisconsin (3%); Indiana (3%); small amounts from 7 other states.	Ellen Robinson, IL Environmental Protection Agency (217) 782-9288
Indiana	Six receiving states reported a total of 945,241 tons of MSW from Indiana.	Michigan 540,384 tons, Kentucky 199,439 tons (2002), Ohio 157,512 tons, Illinois 42,210 tons, Penn. 5,005 tons, Virginia 691 tons.	917,678 tons of MSW in 2003, a decrease of 402,000 tons from the previous year. The state also received 217,200 tons of other solid waste from out of state in 2003.	Illinois (73%); Ohio (13%); Michigan (7%); Kentucky (6%).	Michelle Weddle, IN Dept of Environmental Management (317) 233-4624  <a href="http://www.in.gov/idem/land/sw/qtrlyrpts/fars/far02.pdf">www.in.gov/idem/land/sw/qtrlyrpts/fars/far02.pdf</a>

## CRS-16

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Iowa	CRS estimates 350,000 tons based on reports from Iowa and receiving states. Three receiving states report 271,925 tons in 2003; the additional amount in our estimate represents an estimated amount of waste shipped to Nebraska. Iowa reported 248,834 tons in FY2003 (7/02 - 6/03).	Illinois, 266,158 tons; Missouri 5,267 tons; Wisconsin 500 tons. FY 03 exports to Nebraska totaled 93,563 tons, acc. to Iowa.	The state reported a total of 276,302 tons in FY2003.	89% from Minnesota. The rest from Missouri, Nebraska, Illinois, and Wisconsin.	Mark Warren, IA Dept of Natural Resources (515) 281-4968
Kansas	Waste exports declined in 2003 to 371,371 tons from 500,000 tons in 2002. Both years were substantially above pre-2002 exports, however.	90% to Oklahoma. 10% to Missouri.	697,874 tons of MSW in 2002, plus 277,632 tons of other waste, primarily C&D. The state believes imports are under-reported, in part because waste imported by transfer stations is not counted.	638,983 tons (92%) from Missouri; the remainder from Oklahoma.	Kent Foerster, KS Dept. of Health and Environment (785) 296-1540
Kentucky	328,993 tons in 2003.	Tenn. 221,025 tons, Indiana 59,557 tons, Ohio 46,307 tons, Illinois 1,618 tons, Virginia 486 tons.	598,549 tons in 2002.	Indiana (33%), Ohio (32%), and West Virginia (21%) were the main sources in 2002. Tennessee (6%) and Virginia (5%) contributed lesser amounts.	Allan Bryant, KY Dept. for Environmental Protection (502) 564-6716

## CRS-17

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Louisiana	Texas reports that it received 141,550 tons from Louisiana in 2003. Mississippi received 107,075 tons.	Texas, Mississippi.	Louisiana does not track waste imports. Little waste is believed to be imported.	N.A.	Dennis Duszynski, LA Dept. of Environmental Quality (225) 219-3236
Maine	The state does not maintain export data. In 2002, neighboring states and Canada reported receiving a total of 49,868 tons.	New Hampshire received 38,643 tons. Most of the rest went to Canada. Data provided by North East Waste Management Officials Association (NEWMOA).	CRS estimates 2003 imports at 220,000 tons, based on reports from Massachusetts and NEWMOA.	Massachusetts reported 178,886 tons of MSW shipped to Maine in 2003. The rest comes from New Hampshire.	George MacDonald, ME Dept of Environmental Protection (207) 287-5759
Maryland	Receiving states reported receiving 1,941,370 tons from Maryland in 2003.	Virginia-1,808,446 tons (93%) Pennsylvania-130,516 tons (6%) Ohio-1,332 tons (<1%) West Virginia-1,052 tons (<1%) New York-25 tons (<1%)	The state reports receiving 202,768 tons from out-of-state. The state has also generally imported substantial quantities of C&D waste.	Delaware, Pennsylvania, Virginia, West Virginia, D.C., New Jersey, and New York.	Frank Diller, MD Dept of the Environment (410) 537-4143

## CRS-18

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Massachusetts	In 2003, Massachusetts reported exporting a total of 1,239,364 tons.	SC-450,221 tons (36%) New Hampshire-258,919 tons (21%) New York-193,297 tons (16%) Maine-178,886 tons (14%) Ohio-99,061 tons (8%) Connecticut-39,023 tons (3%) Virginia-9,343 tons (<1%) Rhode Island-5,575 tons (<1%) Pennsylvania-5,039 tons (<1%)	In 2003, Massachusetts reported importing a total of 179,852 tons.	New York-67,634 tons (38%) Connecticut-60,599 tons (34%) Rhode Island-24,114 tons (13%) New Hampshire-22,471 tons (12%) Vermont-2,745 tons (2%) Maine-2,289 tons (1%)	Brian Holdridge, MA Dept. of Environmental Protection (617) 292-5578
Michigan	The state does not track exports, but two neighboring states reported 223,310 tons from Michigan in 2003.	Ohio 71%, Indiana 29%.	In FY2003 (10/02 - 9/03), imports of MSW were 4,503,218 tons, an increase of 1.0 million tons in the past year. (Data converted from cubic yards to tons by CRS.)	Ontario, Canada (62%), Illinois (12%), Indiana (12%), Ohio (8%), Wisconsin (4%). Six other states (principally Connecticut, Maine, and New York) account for the remaining 2%.	Christina Miller, MI Dept. of Environmental Quality (517) 373-4741  <a href="http://www.deq.state.mi.us/documents/deq-whm-stw-landfillreport.pdf">www.deq.state.mi.us/documents/deq-whm-stw-landfillreport.pdf</a>
Minnesota	In 2002, the state exported 611,044 tons.	Iowa 286,802 tons Wisconsin 265,880 tons No. Dakota 57,360 tons So. Dakota 658 tons	According to the state, a negligible amount has been imported.	N.A.	Jim Chiles, MN Pollution Control Agency (651) 296-7273

## CRS-19

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Mississippi	Tennessee reports receiving 113,013 tons of Mississippi waste in 2003.	Tennessee.	579,752 tons in 2003.	356,477 tons (62%) from Tennessee; 107,075 tons (18%) from Louisiana; 94,650 tons (16%) from Alabama; 21,550 tons (4%) from Arkansas.	Pradip Bhowal, MS Dept. of Environmental Quality (601) 961-5082  www.deq.state.ms.us/MD EQ.nsf/pdf/SW_ AnnualReport2003
Missouri	2,334,511 tons in 2003.	Illinois 1,648,008 tons (71%); Kansas 658,979 tons (28%); the remaining 1% went to Arkansas, Iowa, Kentucky and Tennessee.	206,873 tons in 2003.	Arkansas (41%); Illinois (38%); Kansas (18%); Iowa (3%).	Debbie Sessler, MO Dept. of Natural Resources (573) 751-5401
Montana	Montana does not track exports, and is not believed to export any significant amount of MSW.	N.A.	31,437 tons in 2003 — almost identical to the amount in 2002.	Idaho (84%), North Dakota (11%), Wyoming (5%).	Pat Crowley, MT Dept. of Environmental Quality (406) 444-5294
Nebraska	The state does not collect records on MSW exports, but Iowa reports receiving 10,537 tons from Nebraska in FY2003.	Iowa.	The state does not collect records on MSW imports. Iowa reports sending Nebraska 93,563 tons of MSW in FY2003.	Iowa.	Keith Powell, NE Dept. of Environmental Quality (402) 471-4210
Nevada	Arizona estimates that it received 3,300 tons of MSW from Nevada. In addition, an “insignificant” amount is exported to Idaho from border communities.	Arizona, Idaho.	422,456 tons in 2003.	Almost all from California. A small amount is imported from neighboring communities in Utah and Arizona.	Dave Simpson, NV Division of Environmental Protection (775) 687-9469

## CRS-20

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
New Hampshire	CRS estimates exports of 65,000 tons in 2003, based on reports from receiving states and NEWMOA.	About two-thirds to Maine; most of the remainder to Massachusetts.	In 2002, New Hampshire imported 401,852 tons of MSW, primarily from Massachusetts.	About three-quarters from Massachusetts. The rest was from Vermont and Maine.	Pierce Rigrod, NH Dept. of Environmental Services (603) 271-3713
New Jersey	5,803,184 tons in 2003, according to six importing states. New Jersey reported 3.7 million tons of exports in 2002 (latest available data).	PA 4,800,094 tons; OH 431,086 tons; GA 413,456 tons; VA 84,218 tons; NY 72,409 tons; WV 1,921 tons.	1,671,065 tons in 2002.	97% from New York.	Ray Worob, NJ Dept. of Environmental Protection (609) 984-6903
New Mexico	The state says there are no exports, except for materials destined for recycling. Texas and Arizona report receiving small amounts of waste from New Mexico.	Texas and Arizona.	537,000 tons of MSW were imported in 2003, according to official data, but state officials believe the reported amount could be as much as 25% below actual imports because of underreporting by landfills that serve border cities and Indian nations. Imports are believed to be increasing in 2004.	511,000 tons from Texas. The rest is from Colorado, Arizona, Indian nations, and maquiladora waste from Mexico.	John O'Connell, NM Environment Dept. (505) 827-2385

## CRS-21

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
New York	Nine importing states report a total of 8,247,610 tons from New York in 2003. New York facilities reported exports of 4,960,830 tons in 2003.	PA 3,760,783 tons; VA 1,765,271 tons; NJ 1,652,861 tons (2002); OH 887,297 tons; MA 67,634 tons; WV 57,687 tons; GA 28,274 tons; MI 18,206 tons; CT 9,597 tons.	New York estimates 311,417 tons were imported in 2003. The state also imported 172,000 tons of C&D waste in 2003.	Ontario, Canada (43%); New Jersey (23%); Pennsylvania (16%); Massachusetts (9%); Connecticut (8%).	Gerard Wagner, NY State Dept. of Environmental Conservation (518) 402-8662
North Carolina	971,286 tons in FY2003 (July 2002-June 2003), an increase of 89,039 tons from the previous year. In addition, the state exported 77,217 tons to a South Carolina transfer station, which, after baling, were sent back to North Carolina for disposal.	Virginia (50%), South Carolina (44%), Tennessee (5%), Georgia (1%).	133,145 tons in FY2003 (July 2002-June 2003). Does not include 77,217 tons of waste imported from a South Carolina transfer station, which originally received the waste from North Carolina.	South Carolina (64%); Virginia (36%).	Paul Crissman, NC Dept. of Environment and Natural Resources (919) 733-0692 x254  [ <a href="http://wastenot.enr.state.nc.us/swhome/SW02-03_AR.doc">http://wastenot.enr.state.nc.us/swhome/SW02-03_AR.doc</a> ]
North Dakota	North Dakota estimates exports at 10,000 tons in 2002.	Montana received slightly less than 4,000 tons. The rest is not accounted for.	101,196 tons in 2002.	Minnesota would be the largest source.	Steve Tillotson, ND Dept. of Health (701) 328-5166
Ohio	1,102,341 tons in 2003.	Michigan (38%); Kentucky (29%); West Virginia (17%); Indiana (13%); Pennsylvania (4%).	Ohio imported 2,541,074 tons in 2003, an increase of 553,000 tons since 2001.	Ohio imports waste from 27 states. The largest sources were New York (35%), Pennsylvania (18%), New Jersey (17%), Connecticut (9%).	Michelle Kenton, OH Environmental Protection Agency (614) 728-5368



## CRS-22

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Oklahoma	Kansas received 58,891 tons of waste from Oklahoma in 2002. Texas received at least 40,000 tons in 2003 (CRS estimate, based on Texas data).	Kansas, Texas.	State does not track imports. Kansas reports that 333,616 tons of waste were shipped from the Wichita area to Oklahoma in 2003.	Mostly from Kansas.	John Roberts, OK Dept. of Environmental Quality (405) 702-5100
Ontario, Canada	Ontario shipped nearly 3 million tons of MSW to the United States in 2003 (2,922,473 tons), according to receiving states. Michigan received 2,789,650 tons of this waste in FY2003 (10/02-9/03). (Data converted from cubic yards to tons by CRS.) New York received 132,823 tons.	Primarily Michigan. Some to New York.	None.	N.A.	Bruce Pope, Ontario Ministry of Environment and Energy (416) 325-4420
Oregon	Oregon exported 18,668 tons of MSW in 2002.	Mainly to Idaho.	Oregon imported 1,424,801 tons of MSW in 2002. Imports accounted for 34% of all the waste disposed in Oregon that year.	Almost all from Washington.	Peter Spendelow, OR Dept. of Environmental Quality (503) 229-5521

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Pennsylvania	The state does not track exports. According to neighboring states, Pennsylvania exported 558,975 tons of MSW in 2003.	84% (467,042 tons) to Ohio; the rest to New York, Virginia, and West Virginia.	9,155,638 tons in 2003, a decline of 1.5 million tons since 2001. The state is still, by far, the largest importer of MSW, representing 23.5% of the national total of imports. In addition to MSW, Pennsylvania received 1.4 million tons of other solid waste from out of state in 2003.	New Jersey (at 4.8 million tons) and New York (at 3.76 million) accounted for nearly 94% of Pennsylvania's MSW imports in 2003. Other sources included Connecticut (0.28 million) and Maryland (0.13 million).	Sally Lohman, PA Dept. of Environmental Protection (717) 787-7382  [http://www.dep.state.pa.us/dep/deputate/airwaste/wm/drfc/reports/ctyfac.htm]
Rhode Island	Receiving states reported 117,301 tons of MSW from Rhode Island in 2003.	79% to Georgia; 21% to Massachusetts. Tiny amounts to Pennsylvania and Connecticut.	Massachusetts reports sending MSW to RI. Officially, however, RI does not accept MSW from out-of-state. In 2002, all MSW imported to RI was reported as sent back out-of-state for disposal.	Massachusetts — 5,575 tons in 2003.	Robert Schmidt, RI Dept. of Environmental Management (401) 222-2797 x7260
South Carolina	Georgia, North Carolina and Virginia report 184,797 tons of waste from South Carolina in 2003.	Georgia 98,791 tons, NC 84,932 tons, Virginia 1,074 tons.	South Carolina imported 1,227,240 tons of MSW in FY2003 (7/02-6/03).	Massachusetts (38%) and North Carolina (36%) were the main sources. Georgia (17%) and Delaware (9%) accounted for most of the remainder.	Pete Stevens, SC Dept. of Health and Environmental Control (803) 896-4149

## CRS-24

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
South Dakota	The state does not track exports of MSW; according to the state, there are insufficient amounts to warrant tracking.	N.A.	The state does not track imports of MSW; according to the state, there are insufficient amounts to warrant tracking. Minnesota shipped 658 tons of MSW to South Dakota in 2002.	Minnesota	Jim Wente, SD Dept. of Environment and Natural Resources (605) 773-3153
Tennessee	Four neighboring states report receiving 431,740 tons of waste from Tennessee, an increase of more than 40% since 2001.	Mostly to Mississippi (83%). The rest went to Kentucky (8%), Virginia (7%), and Georgia (2%).	577,940 tons in 2003.	221,025 tons (38%) from Kentucky; 134,237 tons (23%) from Virginia; 113,013 tons (20%) from Mississippi; 53,484 tons (9%) from North Carolina; 28,289 tons (5%) from Georgia; the rest from Missouri, Arkansas, West Virginia, and Alabama.	A. Wayne Brashear, TN Dept. of Environment and Conservation (615) 532-8010
Texas	New Mexico reports 511,000 tons of waste from Texas in 2003. Texas reported a similar amount, relying on 2002 data.	New Mexico	251,100 tons in 2003.	Louisiana 141,550 tons Mexico 48,117 tons Oklahoma at least 40,000 tons. The rest from Arkansas, Kansas, Mississippi, and New Mexico.	Edward Block, TX Commission on Environmental Quality (512) 239-6613
Utah	As in previous years, about 1,000 tons of waste went from Wendover, Utah, to Wendover, Nevada. Also, Arizona reports about 500 tons of waste from Utah.	Nevada, Arizona.	0 tons in 2003, except for a "trickle" from Arizona.	Arizona	Jeff Emmons, UT Dept. of Environmental Quality (801)538-6748

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Vermont	In 2002, 126,159 tons were exported.	Mostly to New York and New Hampshire. A small amount to Massachusetts.	Facilities in Vermont do not accept out-of-state waste. However, New York reports sending MSW to Vermont.	New York 61,463 tons	Julie Hackbarth, VT Dept. of Environmental Conservation (802) 241-3446
Virginia	The state does not track MSW exports. Seven states report 240,633 tons of exports from Virginia.	Tennessee 134,237 tons; No. Car. 48,213 tons; Kentucky 31,845 tons; Georgia 15,623 tons; West Va. 5,321 tons; So. Car. 2,807 tons; Penn. 2,587 tons.	Virginia remains the second-largest waste importer. The state imported 5,489,170 tons of MSW in 2003 and 1.1 million tons of other waste (mostly C&D waste, sludge, and incinerator ash). Imports increased by nearly 1 million tons compared with 2002.	95% from 3 states and DC: 1,808,446 tons from Maryland; 1,765,271 from New York; 1,175,881 from DC; 470,074 tons from North Carolina. Less than 5% from 16 other states.	Kathy Frahm, VA Dept. of Environmental Quality (804) 698-4376  www.deq.state.va.us/waste/pdf/swreport03.pdf
Washington	1,001,717 tons of MSW in 2002, plus 423,531 tons of other waste. Washington has huge amounts of landfill capacity, but because of contractual arrangements, the state exports substantial amounts of waste.	Oregon.	112,097 tons of MSW in 2002, plus 53,838 tons of other waste.	50% from British Columbia; 19% from Oregon; 16% from Idaho; 15% from Alaska.	Ellen Caywood, WA Dept. of Ecology (360) 407-6132  www.ecy.wa.gov/pubs/0307019.pdf
West Virginia	No tracking system. Six receiving states reported 364,719 tons of waste from West Virginia.	Kentucky (35%), Ohio (31%), Pennsylvania (20%), Virginia (13%). Small amounts to Tennessee and New York.	276,439 tons in 2003.	Ohio 195,203 tons, NY 57,687 tons, Penn. 13,275 tons, Virginia 5,321 tons. The rest from 9 other states.	Jan Borowski, WV Solid Waste Management Board (304) 558-0844

CRS-26

State	Amount of MSW Exported	Destination of Exported Waste	Amount of MSW Imported	Sources of Imported Waste	Additional Information
Wisconsin	The state does not collect export data, but two receiving states report 213,989 tons of Wisconsin exports in 2003.	Michigan (77%), Illinois (23%).	1,210,008 tons in 2003.	Illinois 777,983 tons, Minn. 431,526 tons.	Kurt Byfield, WI Dept. of Natural Resources (608)266-8805
Wyoming	The state does not collect export data. Montana reported 1,487 tons from Wyoming.	Montana.	The state does not collect import data. A few tons a day may enter the state.	N.A.	Bob Doctor, WY Dept. of Environmental Quality (307) 473-3468

N.A. = not available

**Source:** CRS, based on telephone interviews with and data provided by state program officials.