

Appendix VI
COMPARATIVE
RECYCLING DATA
for Chicago, Los Angeles, New York,
San Francisco, and Seattle

including

**Summary of Municipal Recycling Survey
As Reported in *Waste News*, 2000–2004**

**Annual Waste Stream and Diversion Tonnages
Across Five U.S. Cities**

Summary of Waste Management Practices for Five U.S. Cities

Processing and Marketing Recyclables in New York City

Table AVI-1
Summary of Municipal Recycling Survey—Chicago
As Reported in *Waste News*, 2000–2004

Waste News publication Date	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04
	CHICAGO	CHICAGO	CHICAGO	CHICAGO	CHICAGO
Population:	2,802,079	2,802,079	2,896,016	2,896,016	2,896,016
Recycling rate:	47.30%	47.90%	44.90%	44.30%	22.30%
Calculated for year ended:		Jun-00	Jun-01	Jun-02	Jun-03
Rate includes:					
Residential	x	x	x	x	x
Commercial	x	x	x	x	
Other					
Rates by category:					
Residential		26.80%	44.90%	44.30%	22.30%
Commercial		N.A.	N.A.	N.A.	N.A.
Materials included: (See key below)					
Paper	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP
Metal	ALC, TC	ALC, TC	ALC, TC	ALC, TC	ALC, TC
Plastic	PET, HDPE, PB	PET, HDPE, PB	PET, HDPE, PB	PET, HDPE, PB	PET, HDPE
Glass	GCON	GCON	GCON	GCON	GCON
Bulk	WOOD, CND	WOOD, CND	WOOD, CND	WOOD, CND	
Automotive					
Hazardous			FLP	FLP	
Organic	YARD	YARD	YARD	YARD	YARD
Other	OIL				
Total tonnage collected:	2,411,165	2,287,708	2,352,418	2,146,321	695,250
By city	275,000	294,909	293,744	283,441	211,228
By contracted haulers	2,136,165	1,992,799	2,058,674	1,862,880	484,022
Tonnage collected per material:					
Paper	608,939	545,499	449,061	378,954	371,146
Metal	533,023	117,168	113,741	108,172	182,064
Plastic	6,722	2,197	3,684	2,791	4,039
Glass	23,321	22,741	22,220	13,347	3,002
Yard trimmings	165,961	176,472	186,396	165,786	134,999
Other	1,073,199	1,423,631	1,577,316	1,477,271	0
Collection methods:					
Curbside	Yes	Yes	Yes	Yes	Yes
Frequency	Weekly	Weekly	Weekly	Weekly	Weekly
Number of households	740,000	740,000	740,000	660,000	660,000
Is program mandatory?	—	No	No	No	No
How are materials collected:	—	Single Source	Source-separated	Source-separated	Source-separated
Program operated by:	—	City crews	City crews	City crews	City crews
Dropoff	No	No	Yes	No	Yes
Number of sites	—	N.A.	5-10	5-10	10
Program operated by:	—	N.A.	Private haulers, not-for-profits	Private haulers, not-for-profits	Private haulers
Multifamily dwelling	No	Yes	Yes	Yes	Yes
Program operated by:	—	Private haulers	Private haulers	Private haulers	Private haulers
Other	None	None	None	None	None
Commercial recycling program offered:		Recycling programs mandatory for owners, property managers	Recycling Program mandatory for property managers; collected by private haulers	Recycling programs mandatory for owners, property managers	N.A.
Recycling goals:					
Mandated goal	No	25% by 2001	0.25	0.25	0.25
Non-mandated goal	40% by 2002	40% by 2002	40% by 2002	40% by 2002	0.4
Goals met	Yes	Yes	Yes	Yes	No
Financial information:					
Recycling budget	N.A.	N.A.	N.A.	N.A.	N.A.
Overall solid waste budget	\$139,774,240	\$144,152,637	\$150,000,000	\$160,000,000	\$154,000,000
Recyclables revenue	\$0	\$0	\$0	\$0	N.A.
Amount spent per resident on recycling	N.A.	N.A.	N.A.	N.A.	N.A.
Recycling budget percentage	N.A.	N.A.	N.A.	N.A.	N.A.

MATERIALS KEY: ABAT – automobile batteries; ALC – aluminum cans; APP – appliances; AUTO – automobiles; BVC – beverage cartons, drink boxes; CND – construction debris; ESRP – electronic scrap; FLP – fluorescent lamps; FOOD – food waste; FRN – furniture; GCON – glass containers; HDPE – HDPE plastic; HH – household hazardous waste; MG – magazines; MP – mixed paper; NP – newspaper; OCC – cardboard, corrugated containers; OP – office paper; PB – plastic bags; PET – PET plastic; TB – telephone books; TC – tin cans; TEX – textiles; WOOD – wood waste; TIRE – tires; OIL – oil, oil filters, grease; YARD – yard trimmings

Note: The data in this table reflect information reported in *Waste News* Municipal Recycling Surveys 2000 to 2004. The Department of Sanitation makes no warrant as to their accuracy with the exception of data on New York City.

Appendix VI: Comparative Recycling Data

Table AVI-1
Summary of Municipal Recycling Survey—Los Angeles
As Reported in *Waste News*, 2000–2004

Waste News publication Date	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04
	LOS ANGELES	LOS ANGELES	LOS ANGELES	LOS ANGELES	LOS ANGELES
Population:	3,579,556	3,579,556	3,694,820	3,694,820	3,694,820
Recycling rate:	44.00%	40.90%	55.50%	39.00%	39.00%
Calculated for year ended:		Jun-00	Jun-01	Jun-02	Jun-03
Rate includes:					
Residential	x	x	x	x	x
Commercial			x		
Other					
Rates by category:					
Residential	—	40.90%	42.00%	39.00%	39.00%
Commercial	—	N.A.	N.A.	N.A.	N.A.
Materials included:					
(See key below)					
Paper	NP, OCC, MG, TB, MP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP
Metal	ALC, TC	ALC, TC, APP	ALC, TC, APP	ALC, TC, APP	ALC, TC
Plastic	PET, HDPE	PET, HDPE	PET, HDPE, PB	PET, HDPE, PB	PET, HDPE, PB, BVC
Glass	GCON	GCON	GCON	GCON	GCON
Bulk	WOOD		TEX, WOOD, CND, FRN	WOOD	
Automotive			AUTO		
Hazardous		ESRP	ESRP		
Organic	YARD	YARD	FOOD, YARD	YARD	YARD
Other					
Total tonnage collected:	578,818	691,870	5,331,105	664,045	231,456
By city	578,818	691,870	628,561	664,045	231,456
By contracted haulers	0	0	4,702,544	0	0
Tonnage collected per material:					
Paper	112,120	137,499	821,836	160,366	
Metal	4,737	8,112	912,808	6,836	5,470
Plastic	5,291	2,900	5,573	5,824	6,395
Glass	13,464	19,224	262,641	22,983	25,515
Yard trimmings	405,312	454,803	1,076,657	468,036	6,495
Other	36,436	69,332	2,251,590		39,967
Collection methods:					
Curbside	Yes	Yes	Yes	Yes	Yes
Frequency	weekly	Weekly	Weekly	Weekly	Weekly
Number of households	720,000	750,000	720,000	720,000	740,000
Is program mandatory?	—	N.A.	Yes	No	No
How are materials collected:	—	Commingled, single source	Commingled	Source-separated	Source-separated
Program operated by:	—	City Crews	City Crews	City crews	City crews
Dropoff	No	Yes	Yes	Yes	No
Number of sites		Varies	1	1	N.A.
Program operated by:	—	City Crews	Private Haulers	City crews, private haulers	N.A.
Multifamily dwelling	Yes	Yes	No	Yes	No
Program operated by:	—	City Crews	N.A.	City crews, private haulers	N.A.
Other	None	None	None	None	None
Commercial recycling program offered:		N.A.	N.A.	N.A.	N.A.
Recycling goals:					
Mandated goal	50% diversion by 2000	50% diversion by 2000	50% diversion by 2000	70% diversion by 2020	No
Non-mandated goal	No	No	70% by 2020	No	70% diversion by 2020
Goals met	Mp	No	No	N.A.	No
Financial information:					
Recycling budget	N.A.	80000000	57064000	42400000	43000000
Overall solid waste budget	\$82,363,875	\$121,000,000	\$98,876,690	\$89,500,000	\$93,305,000
Recyclables revenue	\$1,486,675	\$1,729,680	\$1,500,000	\$1,654,730	\$2,434,884
Amount spent per resident on recycling	N.A.	22.24	15.44	11.48	11.64
Recycling budget percentage	N.A.	0.066	0.589	0.507	0.461

MATERIALS KEY: ABAT – automobile batteries; ALC – aluminum cans; APP – appliances; AUTO – automobiles; BVC – beverage cartons, drink boxes; CND – construction debris; ESRP – electronic scrap; FLP – fluorescent lamps; FOOD – food waste; FRN – furniture; GCON – glass containers; HDPE – HDPE plastic; HH – household hazardous waste; MG – magazines; MP – mixed paper; NP – newspaper; OCC – cardboard, corrugated containers; OP – office paper; PB – plastic bags; PET – PET plastic; TB – telephone books; TC – tin cans; TEX – textiles; WOOD – wood waste; TIRE – tires; OIL – oil, oil filters, grease; YARD – yard trimmings

Note: The data in this table reflect information reported in *Waste News* Municipal Recycling Surveys 2000 to 2004. The Department of Sanitation makes no warrant as to their accuracy with the exception of data on New York City.

Processing and Marketing Recyclables in New York City

Table AVI-1
Summary of Municipal Recycling Survey—New York
As Reported in Waste News, 2000–2004

Waste News publication Date	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04
	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK
Population:	7,420,166	7,420,166	8,008,278	8,008,278	8,008,278
Recycling rate:	18.20%	19.70%	20.10%	35.70%	29.90%
Calculated for year ended:	—	Jun-00	Jun-01	Jun-02	Jun-03
Rate includes:					
Residential	x	x	x	x	x
Commercial				x	x
Other				x	x
Rates by category:					
Residential	—	19.70%	20.10%	19.80%	12.70%
Commercial	—	N.A.	0.6	0.44	0.637
Materials included: (See key below)					
Paper	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP
Metal	ALC, TC, APP	ALC, TC, APP	ALC, TC, APP	ALC, TC, APP	ALC, TC, APP
Plastic	PET, HDPE	PET, HDPE	PET, HDPE	PET, HDPE	
Glass	GCON	GCON	GCON	GCON	
Bulk	FRN	FRN	FRN	FRN, FOOD, CND	FRN, FOOD, CND
Automotive				AUTO	AUTO
Hazardous					
Organic	YARD	YARD	YARD	YARD	YARD
Other	BVC	BVC	BVC		
Total tonnage collected:	658,944	749,000	740,000	5,960,496	9,084,060
By city	658,944	749,000	740,000	1,869,000	1,557,000
By contracted haulers	0	0	0	4,091,496	7,527,060
Tonnage collected per material:					
Paper	385,632	423,000	420,000	406,866	351,922
Metal	N.A.	305,000	320,000	532,326*	86,759
Plastic	N.A.	(metal, plastic and glass combined)	(metal, plastic and glass combined)	(metal, plastic and glass combined)	
Glass	N.A.				
Yard trimmings	N.A.	21,000	0	50,000	5,476
Other	—	0	0	879,807	1,112,843
Collection methods:					
Curbside	Yes	Yes	Yes	Yes	Yes
Frequency	weekly/biweekly	Weekly	Weekly	Weekly	Biweekly
Number of households	2,000,000	3,000,000	3,000,000	3,200,000	3,200,000
Is program mandatory?	—	Yes	Yes	Yes	Yes
How are materials collected:	—	Single source	Source-separated	Source-separated	Source-separated
Program operated by:	—	City crews	City crews	City crews	City crews
Dropoff	Yes	Yes	Yes	Yes	Yes
Number of sites	4	4	4	4	4
Program operated by:	—	City crews	City crews	City crews	City crews
Multifamily dwelling	Yes	Yes	Yes	Yes	Yes
Program operated by:	—	City crews	City crews	City crews	City crews
Other	None	None	None	None	None
Commercial recycling program offered:	nc	Commercial establishments must recycle and have it collected by private carters	Commercial establishments must recycle and have it collected by private carters	N.A.	Commercial generators are required to recycle paper, metal, glass and plastic.
Recycling goals:					
Mandated goal	4250 tons/day by 2001	3,400 tons per day by 1999	4,250 tons/day by 2001	4,250 tons/day	4,250 tons/day
Non-mandated goal	No	No	No	No	No
Goals met	No	Yes	No	No	N.A.
Financial information:					
Recycling budget	76000000	95000000	100000000	103438905	65463866
Overall solid waste budget	\$346,000,000	\$1,000,000,000	\$1,000,000,000	\$1,040,600,000	\$971,100,000
Recyclables revenue	\$2,000,000	\$3,000,000	\$8,200,000	\$5,960,778*	\$7,767,797
Amount spent per resident on recycling	10.24	12.8	12.49	12.92	8.17
Recycling budget percentage	0.09	0.095	0.1	0.099	0.067

MATERIALS KEY: ABAT – automobile batteries; ALC – aluminum cans; APP – appliances; AUTO – automobiles; BVC – beverage cartons, drink boxes; CND – construction debris; ESRP – electronic scrap; FLP – fluorescent lamps; FOOD – food waste; FRN – furniture; GCON – glass containers; HDPE – HDPE plastic; HH – household hazardous waste; MG – magazines; MP – mixed paper; NP – newspaper; OCC – cardboard, corrugated containers; OP – office paper; PB – plastic bags; PET – PET plastic; TB – telephone books; TC – tin cans; TEX – textiles; WOOD – wood waste; TIRE – tires; OIL – oil, oil filters, grease; YARD – yard trimmings

Note: The data in this table reflect information reported in Waste News Municipal Recycling Surveys 2000 to 2004. The Department of Sanitation makes no warrant as to their accuracy with the exception of data on New York City.

* New York's total tonnage collected and recyclables revenue incorporate scrap collected from the World Trade Center.

Appendix VI: Comparative Recycling Data

Table AVI-1
Summary of Municipal Recycling Survey—San Francisco
As Reported in *Waste News*, 2000–2004

Waste News publication Date	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04
	SAN FRANCISCO	SAN FRANCISCO	SAN FRANCISCO	SAN FRANCISCO	SAN FRANCISCO
Population:	745,774	745,774	776,733	776,733	776,733
Recycling rate:	40.00%	42.00%	46.00%	48.00%	48.00%
Calculated for year ended:		Dec-99	Dec-00	Dec-01	Dec-01
Rate includes:					
Residential	x	x	x	x	x
Commercial	x	x	x	x	x
Other	—	City government, industrial	City government, industrial	City government, industrial	City government, industrial
Rates by category:					
Residential	—	N.A.	N.A.	38.00%	38.00%
Commercial	—	N.A.	N.A.	0.56	0.56
Materials included: (See key below)					
Paper	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP
Metal	ALC, TC, APP	ALC, TC	ALC, TC, APP	ALC, TC, APP, ESRP	ALC, TC, APP, ESRP
Plastic	PET, HDPE	PET, HDPE	PET, HDPE, PB	PET, HDPE, PB, BVC	PET, HDPE, PB, BVC
Glass	GCON	GCON	GCON	GCON	GCON
Bulk	WOOD, CND, APP		TEX, WOOD, CND, FRN	TEX, WOOD, CND, FRN	TEX, WOOD, CND, FRN
Automotive	TIRE		TIRE	TIRE, OIL	TIRE, OIL
Hazardous			ESRP		
Organic	FOOD, YARD		FOOD, YARD	FOOD, YARD	FOOD, YARD
Other			BVC		
Total tonnage collected:	580,000	568,138	748,379	825,000	825,000
By city	0	0	0	0	0
By contracted haulers	580,000	568,138	748,379	N.A.	N.A.
Tonnage collected per material:					
Paper	172,000	144,317	163,680	85,000	85,000
Metal	21,000	18,638	8,688	31,000	31,000
Plastic	2,000	2,659	5,249	5,000	5,000
Glass	32,000	22,954	31,355	40,000	40,000
Yard trimmings	51,000	12,148	61,974	80,000	80,000
Other	302,000	367,422	477,433	584,000	584,000
Collection methods:					
Curbside	Yes	Yes	Yes	Yes	Yes
Frequency	Weekly	Weekly	Weekly	Weekly	Weekly
Number of households	325,000	333,000	333,000	300,000	300,000
Is program mandatory?	—	No	No	No	No
How are materials collected:	—	Commingled, single source	Commingled, source-separated	Commingled, source-separated	Commingled, source-separated
Program operated by:	—	Private haulers	Private haulers	Private haulers	Private haulers
Dropoff	Yes	Yes	Yes	Yes	Yes
Number of sites	25	24	20	20	20
Program operated by:	—	Private haulers	Private haulers	Private haulers	Private haulers
Multifamily dwelling	Yes	Yes	Yes	Yes	Yes
Program operated by:	—	Private haulers	Private haulers	Private haulers	Private haulers
Other	None	Bulky items, OIL	Bulky items, OIL	None	None
Commercial recycling program offered:	—	N.A.	Organic	Organic	Commingled, FOOD waste, bottles and cans
Recycling goals:					
Mandated goal	50% by 2000	50% diversion by 2000	50% diversion by 2000	50% diversion by 2000	50% diversion by 2000
Non-mandated goal	75% diversion by 2010	No	75% diversion by 2010	75% diversion by 2010	75% diversion by 2010
Goals met	No	N.A.	No	No	No
Financial information:					
Recycling budget	13000000	N.A.	N.A.	2231988	2231988
Overall solid waste budget	\$105,000,000	\$3,900,000	N.A.	N.A.	N.A.
Recyclables revenue	N/A	N.A.	N.A.	\$10,603	\$10,603
Amount spent per resident on recycling	17.43	N.A.	N.A.	2.87	2.87
Recycling budget percentage	0.124	N.A.	N.A.	N.A.	N.A.

MATERIALS KEY: ABAT – automobile batteries; ALC – aluminum cans; APP – appliances; AUTO – automobiles; BVC – beverage cartons, drink boxes; CND – construction debris; ESRP – electronic scrap; FLP – fluorescent lamps; FOOD – food waste; FRN – furniture; GCON – glass containers; HDPE – HDPE plastic; HH – household hazardous waste; MG – magazines; MP – mixed paper; NP – newspaper; OCC – cardboard, corrugated containers; OP – office paper; PB – plastic bags; PET – PET plastic; TB – telephone books; TC – tin cans; TEX – textiles; WOOD – wood waste; TIRE – tires; OIL – oil, oil filters, grease; YARD – yard trimmings

Note: The data in this table reflect information reported in *Waste News* Municipal Recycling Surveys 2000 to 2004. The Department of Sanitation makes no warrant as to their accuracy with the exception of data on New York City.

The City of San Francisco did not submit updated information for the year ending December 2002, so *Waste News* published the same data for San Francisco in 2003 and 2004.

Processing and Marketing Recyclables in New York City

Table AVI-1
Summary of Municipal Recycling Survey—Seattle
As Reported in *Waste News*, 2000–2004

Waste News publication Date	Feb-00	Feb-01	Feb-02	Feb-03	Feb-04
	SEATTLE	SEATTLE	SEATTLE	SEATTLE	SEATTLE
Population:	536,978	536,978	563,374	563,374	563,374
Recycling rate:	44.00%	52.00%	43.00%	37.90%	38.00%
Calculated for year ended:		Dec-99	Sep-01	Sep-02	Sep-03
Rate includes:					
Residential	x	x	x	x	x
Commercial	x	x	x	x	x
Other			x	x	x
Rates by category:					
Residential	—	57.00%	N.A.	48.50%	58.00%
Commercial	—	0.45	N.A.	0.367	N.A.
Materials included: (See key below)					
Paper	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP	NP, OCC, MG, TB, MP, OP
Metal	ALC, TC	ALC, TC	ALC, TC	ALC, TC	ALC, TC
Plastic	PET, HDPE, PB, BVC	PET, HDPE, PB, BVC	PET, HDPE, PB, BVC	PET, HDPE, PB, BVC	PET, HDPE, PB, BVC
Glass	GCON	GCON	GCON	GCON	GCON
Bulk	TEX, FOOD, APP, FRN	WOOD	TEX, WOOD, FOOD, APP,	TEX, WOOD, FOOD, APP,	
Automotive	OIL		TIRE, OIL	TIRE, OIL	
Hazardous					
Organic	YARD	YARD	YARD	YARD	
Other	OTHER				
Total tonnage collected:	355,142	102,500	102,500	43,919	54,210
By city	0	0	0	0	0
By contracted haulers	355,142	102,500	102,500	43,919	54,210
Tonnage collected per material:					
Paper	230,842	46,800	46,800	N.A.	42,470
Metal	7,103	23,00	2,300	N.A.	1,035
Plastic	1,776	700	700	N.A.	1,205
Glass	14,205	13,000	13,000	N.A.	9,500
Yard trimmings	56,823	39,700	39,700	N.A.	0
Other	44,393	0	0		N.A.
Collection methods:					
Curbside	Yes	Yes	Yes	Yes	Yes
Frequency	variable	Biweekly	Bi-weekly	Bi-weekly	Bi-weekly
Number of households	250,000	180,000	146,000	146,000	N.A.
Is program mandatory?	—	No	No	No	No
How are materials collected:	—	Commingled	Source-separated	Source-separated	Source-separated
Program operated by:	—	Private Haulers	Private haulers	Private haulers	Private haulers
Dropoff	Yes	No	Yes	Yes	Yes
Number of sites	72	N.A.	2	2	2
Program operated by:	—	N.A.	City crews	City crews	City crews
Multifamily dwelling	Yes	Yes	Yes	Yes	Yes
Program operated by:	—	Private Haulers	Private haulers	Private haulers	Private haulers
Other	None	None	None	None	None
Commercial recycling program offered:		N.A.	N.A.	N.A.	N.A.
Recycling goals:					
Mandated goal	No	No	No	No	No
Non-mandated goal	60% by 2008	60% by 2008	60% by 2008	60% by 2008	60% by 2010
Goals met	No	N.A.	N.A.	No	No
Financial information:					
Recycling budget	12000000	6200000	6800000	N.A.	N.A.
Overall solid waste budget	\$85,000,000	\$88,500,000	\$88,000,000	N.A.	N.A.
Recyclables revenue	N.A.	N.A.	N.A.	N.A.	N.A.
Amount spent per resident on recycling	22.35	11.55	12.07	N.A.	N.A.
Recycling budget percentage	0.141	0.07	0.077	N.A.	N.A.

MATERIALS KEY: ABAT – automobile batteries; ALC – aluminum cans; APP – appliances; AUTO – automobiles; BVC – beverage cartons, drink boxes; CND – construction debris; ESRP – electronic scrap; FLP – fluorescent lamps; FOOD – food waste; FRN – furniture; GCON – glass containers; HDPE – HDPE plastic; HH – household hazardous waste; MG – magazines; MP – mixed paper; NP – newspaper; OCC – cardboard, corrugated containers; OP – office paper; PB – plastic bags; PET – PET plastic; TB – telephone books; TC – tin cans; TEX – textiles; WOOD – wood waste; TIRE – tires; OIL – oil, oil filters, grease; YARD – yard trimmings

Note: The data in this table reflect information reported in *Waste News* Municipal Recycling Surveys 2000 to 2004. The Department of Sanitation makes no warrant as to their accuracy with the exception of data on New York City.

**Table AVI-2
Annual Waste Stream and Diversion Tonnages
Across Five U.S. Cities**

	Chicago		Los Angeles		New York City		San Francisco		Seattle	
	Tons	Rate	Tons	Rate	Tons	Rate	Tons	Rate	Tons	Rate
Combined Waste Stream (Commercial, Residential, Institutional)	4,844,968 ¹		9,700,000 ¹		16,432,136 ¹²		1,718,750 ¹		1,110,309 ¹	
Combined Diversion	2,146,321 ²	44.3% ²	5,331,105 ⁸	55.0% ⁸	8,430,774 ¹²	51.31% ⁴	825,000 ¹⁵	48.0% ⁴	477,433 ¹⁷	43.0% ¹⁷
Paper/MGP-Only Diversion	503,264 ³	10.4% ⁴	2,002,859 ⁹	20.6% ⁴	643,554 ¹²	3.92% ⁴	161,000 ¹⁶	9.4% ⁴	N/A	N/A
Organics Diversion	165,786 ²	3.4% ⁴	1,076,657 ⁸	11.1% ⁴	6,787 ¹²	0.04% ⁴	80,000 ¹⁵	4.7% ⁴	N/A	N/A
Other Diversion	1,477,271 ²	30.5% ⁴	2,251,590 ⁸	23.2% ⁴	7,780,433 ¹²	47.35% ⁴	584,000 ¹⁵	34.0% ⁴	N/A	N/A
Residential Waste Stream	3,117,713 ⁵		593,477 ⁵		3,454,181 ⁵		N/A		251,479 ¹⁸	
Residential Diversion	695,250 ⁶	22.3% ⁶	231,456 ¹⁰	39.0% ¹⁰	438,681 ¹³	12.7% ¹³	N/A	38.0% ¹⁵	107,947 ²¹	42.9% ⁴
Paper/MGP-Only Diversion	560,251 ⁷	18.0% ⁴	184,994 ¹¹	31.2% ⁴	433,205 ¹⁴	12.5% ⁴	N/A	N/A	74,024 ¹⁹	29.4% ⁴
Organics Diversion	134,999 ⁶	4.3% ⁴	6,495 ¹⁰	1.1% ⁴	5,476 ¹³	0.2% ⁴	N/A	N/A	33,923 ²⁰	13.5% ⁴

See "Notes to Illustrations" for source information for this table.

This rate is for Fiscal Year 2003, during which time glass collection was temporarily suspended from NYC's recycling program. Since the reinstatement of glass collection in April 2004, the diversion rate has risen, attaining 17.2% as of May 2004. NYC's diversion rate before the temporary suspensions to the program averaged around 20%.

Processing and Marketing Recyclables in New York City

Table AVI-3
Summary of Waste Management Practices for Five U.S. Cities

	Chicago	Los Angeles
Service coverage City's solid-waste agency	Chicago Department of Streets and Sanitation	LA Bureau of Sanitation
Entity collecting waste Single, 1-4 family housing	Chicago Department of Streets and Sanitation	LA Bureau of Sanitation
Multifamily housing (5+ units)	Numerous private haulers	Numerous private haulers
Residential recycling service 1-4 unit housing Multifamily housing	All residences N/A	All residences Few residences. Pilot began 2004.
Residential waste-management funding structure	City taxes for single to four-unit housing; private fees for multiunit housing	Public program – property taxes supplemented by additional fees if resident sets out more than 60 gallons of refuse; Private program – private hauling arrangements
Is program voluntary or mandatory?	Voluntary	Voluntary
Number of separations	Two: commingled metal, glass, plastic, and paper in blue bag; refuse in black bag, but blue and black bags are collected in one truck	For public program – three: refuse, single-stream paper/MGP, and yard waste; For private program – none or two: paper/MGP and refuse
Separate organics collection?	No	Yes
Organics defined as	Organic residuals	Yard waste
How is contamination handled?	N/A since refuse and recycling are processed together in a mixed MRF	Recycling service suspension
Vehicle specifications	All material collected manually or semi-automated in single-bin truck	
Refuse		Automated, dual bin
Recycling		Automated, dual bin
Organics		Automated, dual bin
Number of vehicle operators per truck	Three (all waste collected in same truck)	
Refuse		One (same truck)
Recycling		
Organics		
MRFs and processing arrangements	Four mixed-materials recovery facilities	Six single-stream MRFs
Organics processing arrangements	Organics are land applied after passage through mixed-waste MRF	Outdoor facility co-composting yard waste, zoo waste, and biosolids in aerated stack piles
State container deposit law?	No	Yes
State recycled-content manufacturing law?	No	Yes

Appendix VI: Comparative Recycling Data

Table AVI-3 Summary of Waste Management Practices for Five U.S. Cities <i>(continued)</i>		
New York City	San Francisco	Seattle
NYC Department of Sanitation	San Francisco Department of the Environment	Seattle Public Utilities
NYC Department of Sanitation	Norcal, Inc.	Waste Management of Seattle; US Disposal (Rabanco)
NYC Department of Sanitation	Norcal, Inc.	Waste Management of Seattle; US Disposal (Rabanco)
All residences All residences	All residences N/A	All residences 90% of units
City taxes	Residents pay monthly, quantity-based fees for refuse collection; recycling and organics collection is free. Residential program is supplemented by funds from commercial collection.	Residents pay monthly quantity-based fees for refuse collection; recycling and yard-waste collection is free
Mandatory	Voluntary	Voluntary
Three: commingled MGP, paper, and refuse	Three: refuse, single-stream paper/MGP, yard/food waste	Four: refuse; commingled paper, plastic, and metal; glass; and yard waste
Yes ¹	Yes	Yes
Leaves and yard waste	Yard and food waste	Yard waste
Ticketing and fines	Leaving bin at curb uncollected, with note	Suspension of service if a continual problem
Manual, single bin	Semi-automated, dual bin	Semi-automated, some dual bins; others with separate noncompacting box for glass
Manual, single or dual bin	Semi-automated, dual bin	Semi-automated, single bin
Manual, single bin	Semi-automated, single bin	Semi-automated, single bin
Two	One (same truck)	One
Two		One
Two		One
Multiple paper processors, one recycled paper mill, one MGP processor with three MRFs	Single-stream MRF, "Recycle Central"	Two single-stream MRFs, glass beneficiation facility ² also used sometimes
Outdoor, windrow composting facilities	Ag-bag in vessel/outdoor windrow	Outdoor, static-pile composting facility
Yes	Yes	No
No	Yes	No

Notes: ¹ NYC leaf and yard-waste composting program was suspended in 2002; due to resume Fall 2004.
² Refers to a glass-processing facility where recovered glass cullet is cleaned of contaminants.