Informational Paper 67

Solid Waste Recycling and Waste Reduction

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Solid Waste Recycling and Waste Reduction

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Solid Waste Recycling and Waste Reduction

In the 1980s, concerns about landfill capacity and the environmental impacts of solid waste disposal, in combination with increasing interest in recycling, brought attention to solid waste management in Wisconsin and served as the impetus for implementation of several state initiatives to more effectively manage this waste.

The Legislature enacted 1989 Wisconsin Act 335, a statewide regulatory and financial assistance program aimed at encouraging, and in some instances requiring, solid waste recycling and reduction. Subsequent legislation modified the funding sources and appropriations for state recycling programs.

The purpose of this paper is to describe major, statewide solid waste recycling and waste reduction regulations. financial assistance programs, and educational and technical assistance initiatives currently in place in Wisconsin. Most of the solid waste management and recycling regulations and financial and technical assistance are administered by the Department of Natural Resources (DNR). DNR administers the municipal and county recycling grant program that provides financial assistance to responsible units of local government for eligible recycling expenses. The grant program is providing \$24.5 million to

responsible units in each of calendar years 2006 (2005-06) and 2007 (2006-07). In each of the two years, \$1.9 million is also provided for a recycling efficiency incentive grant program that began in 2003, and is awarded at the same time as the municipal and county grants. Other recycling provisions are administered by the Department of Commerce, University of Wisconsin Systems, Department of Transportation and Department of Agriculture, Trade and Consumer Protection.

The paper also describes the segregated recycling fund, from which appropriations are made for state recycling programs, and the recycling surcharge and recycling tipping fee, which provide revenue to the recycling fund. Appendix I provides a summary table of funding and positions during 2005-07 for the programs discussed in the following sections. Appendix II provides a summary table of recycling fund cumulative revenues and expenditures from 1990-91 through 2005-06. Several other appendices discuss various aspects of recycling program provisions. While this paper focuses on recycling financial assistance and regulatory programs, other programs and laws addressing recycling and recyclable materials market development are also briefly discussed.

SOLID WASTE AND RECYCLING PROGRAM REQUIREMENTS

Solid Waste Management Policy

The state's solid waste management policy, established in s. 287.05 of the statutes, declares that maximum solid waste reduction, reuse, recycling, composting and resource recovery is in the best interest of the state in order to protect public health, to protect the quality of the natural environment and to conserve resources and energy. The policy also states that implementation of solid waste reduction, reuse, recycling, composting and resource recovery systems and operations requires the involvement and cooperation of individuals, state and local governments, schools, private organizations and The statutes specify that state businesses. government should achieve this involvement and cooperation by relying to the maximum extent feasible on technical and financial assistance, educational and managerial practices and that necessary regulations should be developed with policies maximum flexibility. These are summarized in Appendix III.

The state policy establishes a hierarchy of solid waste management options, ranked in the following order of preference: (1) reduction of the amount of solid waste generated; (2) reuse of solid waste; (3) recycling of solid waste; (4) composting of solid waste; (5) recovery of energy from solid waste; (6) land disposal of solid waste; and (7) the burning of solid waste without energy recovery.

Bans on Landfilling and Incineration

State law prohibits the landfilling and incineration of specified materials after certain dates as a means of encouraging their recycling or reducing their generation. Bans of specific materials went into effect on January 1 of 1991, 1993 and 1995. Certain materials are exempted from the ban.

In the recycling law, the term "solid waste disposal facility" includes several types of facilities, but is most commonly synonymous with the more familiar "landfill." A "solid waste treatment facility" which burns solid waste is generally synonymous with "incinerator." For the purposes of this paper, "landfill" and "incinerator" will be used unless a more extensive definition is necessary for clarity.

1991 Bans

As of January 1, 1991, no person may dispose of lead acid batteries, major appliances or waste oil in a solid waste disposal facility or landfill. Major appliances include residential or commercial air conditioners, clothes dryers, clothes washers, dishwashers, freezers, microwave ovens, ovens, refrigerators, stoves. furnaces. boilers. dehumidifiers and water heaters. The ban also prohibits any person from burning lead acid batteries or major appliances in an incinerator, and prohibits incinerating waste oil without energy recovery. An exception to the ban is provided for any person who disposes of a microwave oven in a landfill if the capacitor has been removed and

disposed of in accordance with state regulations regarding the disposal of capacitors containing PCBs (polychlorinated biphenyls).

1993 Bans

As of January 1, 1993, no person may dispose of yard waste (yard and garden debris and brush) in a landfill or in any other solid waste disposal facility, except a land spreading facility approved in accordance with solid waste laws. A "land spreading facility" is defined as a solid waste disposal facility in which solid waste is placed in thin layers onto the surface of the land or incorporated into the surface layers of the soil. The ban also prohibits burning yard waste without energy recovery. The Department of Natural Resources is authorized to grant a waiver to this prohibition to allow the burning of brush or other clean, woody vegetative material that is no greater than six inches in diameter at wood burning facilities that are licensed or permitted by DNR. The statutes specify that DNR is not required to promulgate the policy that establishes conditions for this waiver as an administrative rule.

1995 Bans

As of January 1, 1995, no person may landfill, burn with or without energy recovery, or convert into fuel, any of the following waste materials: (a) aluminum containers; (b) corrugated paper or other container board; (c) foam polystyrene packaging (packaging made primarily from foam polystyrene that either: (1) is designed for serving food or beverages; (2) consists of loose particles intended to fill empty space and cushion the packaged article; or (3) consists of rigid materials shaped to hold and cushion a packaged article); (d) glass containers; (e) magazines or other material printed on similar paper; (f) newspapers or other material printed on newsprint; (g) office paper; (h) plastic containers (plastics #1 through #7 required to be labeled under the plastic container labeling law); (i) steel containers; and (j) containers for

carbonated or malt beverages that are primarily made from a combination of steel and aluminum (known as "bi-metal" cans). In addition, waste tires cannot be landfilled or burned without energy recovery, but can be burned with energy recovery.

Exceptions to the Bans

Exceptions to the bans are made for: (a) incidental amounts of the banned materials generated in a region that has an effective recycling program; (b) certain materials incinerated in a grandfathered incinerator; (c) incinerators that burn solid waste as a supplemental fuel; (d) certain medical waste: (e) unexpected emergency conditions; (f) certain woody materials burned in approved wood burning facilities; (g) beneficial reuse of a material within a landfill; (h) contaminated materials; and (i) certain plastics if recycling is not feasible. A more detailed discussion of these exceptions is contained in Appendix IV. (Incidental amounts refers to banned materials that are not separated for recycling within an effective program, including items the consumer fails to separate, and nonrecyclable items, such as newspapers used for cleaning windows, plastic milk containers used for waste oil and broken glass containers.)

Enforcement of Bans

DNR is authorized to issue a citation to any person who violates any of the bans. The forfeitures that may be collected through a citation for violation of these requirements are \$50 for the first violation, \$200 for the second and \$2,000 for the third or subsequent violation. The Attorney General is authorized to enforce the 1995 bans by seeking injunctive relief against any person who violates them on or after January 1, 1995. Monetary penalties for violations of the 1993 and 1995 bans were imposed beginning two years after the bans on the landfilling and incineration of the recyclable materials took effect. DNR's implementation of the recycling law emphasizes achieving voluntary compliance through technical and financial assistance rather than enforced compliance through the imposition of penalties or injunctions. However, the Department does work with responsible units to identify violations of local recycling ordinances by waste haulers or landfills.

DNR also is authorized to: (a) hold hearings and compel the attendance of witnesses in the production of evidence related to the administration of the statewide recycling laws; and (b) enter and inspect property at which a solid waste facility is located, or is being constructed or installed, or inspect any record relating to solid waste management at any reasonable time for the purpose of ascertaining the status of compliance with recycling law.

DNR issued two notices of noncompliance to haulers in 2006 for landfilling of recyclables mixed with solid waste. One returned to compliance within the 30-day required timeframe, and the other was still being followed up on. DNR staff also met with other haulers to review the requirements of the landfilling bans, and responded to citizen inquiries or complaints about possible cases of landfilling of mixed recyclables and trash by haulers.

DNR monitored a few towns where recyclables were being disposed of in the local landfill because the towns discontinued recycling drop-off locations without establishing recycling alternatives for their residents. One town corrected the problem by improving recyclables collection, and two other towns received notices of non-compliance in October, 2006.

DNR has referred a small number of cases related to the landfill bans to the Department of Justice for enforcement action, as part of enforcement of other solid waste violations. Examples of other violations include landfill license violations, open burning, improper storage of solid waste or hazardous waste, and improper hauling or processing.

In addition to state enforcement, if a local government has an "effective recycling program," it must take actions to enforce the 1995 bans. This is described in the section on local government responsible units.

DNR is authorized 2.4 positions from the recycling fund in 2006-07 for recycling enforcement that is provided by allocating a portion of the time of environmental wardens throughout the state. DNR regional recycling specialists funded from the recycling fund also work with enforcement.

Local Government Responsible Units

The statutes establish several responsibilities for local government related to recycling. In general, the local units of government responsible for implementing state-mandated recycling programs are termed "responsible units." Under the recycling definition, the responsible unit for a law geographic area is the municipality (city, village or town) unless a county takes specific action to create a responsible unit. Currently, every municipality in the state is included within one of 1,062 responsible units. For 2006, almost all responsible units (1,013 of 1,062), representing 99.2% of the state's population, received state-funded grants for a portion of the costs of operating the local recycling programs.

A county may become a responsible unit upon its board adopting a resolution accepting this designation. A municipality located in the county may retain its own status as a responsible unit if the municipality adopts a resolution to do so within 90 days of the county board's adoption of its resolution. There are 34 counties that are responsible units for all or some of the communities within their boundaries. The governing body of any responsible unit may designate, by contract, another unit of government to be the responsible unit, if it has that unit of government's consent. These multiple-municipality responsible units consist of counties, solid waste management commissions or two or more neighboring municipalities. Indian tribes may also become responsible units.

Duties and Powers of Responsible Units

Each responsible unit must develop and implement a program to manage the solid waste generated within its region in compliance with the 1991, 1993 and 1995 bans and the state's solid waste management priorities. The allowable ways this may be done are: (a) manage materials subject to the 1995 bans in an "effective recycling program" and complying with the 1991 and 1993 bans; (b) burn combustible materials subject to the 1995 bans in a "grandfathered" incinerator (described in the section on exceptions to the bans), managing the non-combustibles in an effective recycling program and complying with the 1991 and 1993 bans; (c) ship waste which contains materials subject to the 1991, 1993 and 1995 bans, out of state; or (d) a combination of (a) through (c). Responsible units are authorized to designate one or more persons to implement specific components of the solid waste management program and are authorized to adopt an ordinance to enforce this program.

Unpaid recycling fees are a lien on the property against which the fees are levied and are to be collected in the same manner as delinquent property taxes. Recycling fees are defined as fees for services provided by responsible units, or other parties, including private parties, that relate to the responsible unit's duties to operate a solid waste management program.

No officer, official, agent or employee of a responsible unit may be held liable for civil damages as a result of good faith actions taken by that person within the scope of that person's duties relating to the responsible unit's recycling program or recycling site or facility.

Any responsible unit that accepts funding from the municipal and county recycling grant program (or a county or municipality within such a responsible unit) is prohibited from regulating the sale or distribution of packaging for a purpose relating to its disposal unless that restriction is consistent with current law relating to marketing and trade practices or solid waste regulation. For example, a municipality that accepts grant funding may not ban retail sales of products packaged in a certain type of plastic in order to reduce the disposal problems associated with that plastic. The unit of government also may not impose a tax or fee on the sale or distribution of the packaging for a purpose related to its disposal. Further, the law states it is the intent of the Legislature not to impose, or to authorize such a unit of government to impose, such a tax or fee.

Effective Recycling Programs

A responsible unit's compliance with its recycling responsibilities relating to the 1995 landfill and incineration bans is determined by whether it is judged to have an "effective recycling program." Effective recycling program criteria were established in 1989 Act 335 and are contained in DNR administrative rule NR 544.

The designation of an effective recycling program is significant because, beginning in 1995, it determined a local government's ability to landfill or incinerate certain materials and its eligibility for state recycling grant funds. Materials subject to the 1995 ban may generally only be landfilled or incinerated if they are the "residuals" (in this context, materials remaining after other like materials have been separated for recycling) from an effective recycling program, or qualify under one of the other exceptions.

A responsible unit may request that DNR conduct a review to determine if its solid waste management program constitutes an effective recycling program. The DNR has 90 days in which to review documentation submitted to it and to determine whether a program is "effective." All 1,062 responsible units have received approval as having effective recycling programs. The approval is valid as long as the local program is operated in a manner that maintains the required components of an effective recycling program.

Local programs are required to submit an annual report to DNR that outlines their effective recycling program. DNR field staff review the reports and perform program evaluations to determine the compliance of the responsible unit with the effective program requirements. Between 1996 and 2004, 11 responsible units were placed on probation due to noncompliance issues or failure to submit their annual recycling report to DNR. They corrected the problems in their recycling program and were returned to effective program status.

The Department indicates that, in 2005 and 2006, it moved toward a more systematic monitoring and tracking of compliance by responsible units with effective program criteria. No responsible unit has been found out of compliance since 2004.

Required Components of an Effective Program

An effective recycling program is required to have twelve specific components. A description of the statutory components is included in Appendix V. Administrative rule NR 544 implements these requirements by requiring responsible units to administer a program that has all of the following components:

• An ordinance to require recycling of the banned materials in all residences and nonresidential facilities and properties. The ordinance must prohibit the landfilling or burning of materials subject to the 1995 bans that are separated for recycling. The responsible unit may impose forfeitures for the violation of its recycling ordinance; • Public education and information about how to recycle, reduce and reuse waste;

• A method for collecting, processing and marketing of recyclables from single-family and two- to four-unit residences;

Curbside collection in municipalities with populations of 5,000 or greater and a population density greater than 70 persons per square mile. These municipalities must provide, at least monthly, curbside collection from single-family and two- to four-unit residences for at least newspaper, glass, aluminum and steel containers, plastic containers made of PETE (polyethylene terephthalate or #1 plastic) or HDPE (high density polythylene or #2 plastic), and either corrugated paper or magazines, and must provide drop off collection for materials that are not collected curbside. Municipalities with populations of less than 5,000 or a population density of 70 persons per square mile or less are not required to provide curbside collection, but at a minimum must offer drop-off collection from single-family and two- to four-unit residences;

• Meet specific per capita total collection standards for eight recyclable materials, as shown in Table 1. Prior to July 1, 2005, the standards required responsible units to meet the collection standards for each of the recyclable materials. Effective July 1, 2005, administrative rule changes establish the collection standards as the total amount for all of the listed banned materials.;

• Equipment and staff necessary to operate and enforce the program;

• Provisions for the management of postconsumer waste that is generated within the responsible unit;

• A reasonable effort to reduce the amount of recyclable materials subject to the 1995 landfill bans, that are generated as solid waste and disposed of in a landfill. • Beginning August 1, 2006, a compliance assurance plan describing the procedure the responsible unit will follow to address, at a minimum, one act of non-compliance with recycling requirements specified in its recycling ordinance which is commonly encountered by the responsible unit; and

• Submittal of an annual program report to DNR that contains specified information and describes how the local program meets state requirements.

Table 1: NR 544 Standards for Collection ofRecyclables: Pounds Per Person Per Year*

Type of Recyclable	Rural Municipalities**	Other Municipalities
Newspaper	36.0	47.0
Corrugated Paper	6.0	7.0
Magazines	7.0	9.0
Aluminum Containers	1.4	1.8
Steel and Bi-Metal Contain	ers 7.0	9.0
Plastic Containers	4.0	5.0
Glass Containers	22.0	29.0
Foam Polystyrene Packagi	ng <u>0.3</u>	0.4
Total	83.7	108.2

* A responsible unit must meet the total collection standard, except that a multiple-municipality responsible with a membership of rural and other municipalities may meet a prorated standard for each material by the entire responsible unit.

** Rural municipalities are those with a population of 5,000 or less or a permanent population density of less than 70 persons per square mile. Municipalities that do not meet that population criterion fall into the other category.

Required Components of a Recycling Ordinance

Administrative rule NR 544 requires that the recycling ordinance adopted by any responsible unit with an effective recycling program must include the following requirements:

• Occupants of single-family and two- to four-unit residences, multiple-family dwellings and non-residential facilities and properties must either separate for recycling the banned materials or send the materials to a licensed processing facility that recovers materials for recycling;

• Owners of multi-family dwellings and non-residential facilities and properties must provide recycling containers, information for users and provide for collection of recyclable materials;

• Recyclable materials that are subject to the statewide bans on landfilling or incineration must be prohibited from such disposal;

• Owners of non-residential properties must notify, at least semi-annually, all users, tenants, and occupants of the properties of how to appropriately recycle materials that are subject to the landfill bans; and

• Enforcement must include penalties consistent with statewide enforcement provisions.

Implementation of Effective Recycling Programs

The structure of local recycling programs varies. Responsible units generally collect recyclable materials through one of two methods. Curbside collection is the collection of materials that are set out at the curb of the residence where they were generated. Drop-off collection is the collection of materials at centralized locations where people who generate the recyclables deliver or "drop-off" the materials.

In 2005, 44% of the state's population lived in responsible units that had curbside collection programs, 49% lived in responsible units with curbside and/or drop-off collection and 7% lived in responsible units where only drop-off collection was available to residents. Over 96% of responsible units with populations over 5,000 relied primarily on curbside collection or a combination of curbside and drop-off collection. Over 63% of the responsible units with populations less than 5,000 had curbside collection available to at least some of their residents. Almost 89% of responsible units that relied primarily on drop-off collection had

populations of less than 2,000.

Responsible units that own or operate a materials recovery facility as part of their effective recycling program are required to submit an annual self-certification to DNR that the facility complies with state requirements. A materials recovery facility is a facility where materials banned from landfills, and not mixed with other solid waste, are processed for reuse or recycling. The selfcertification includes information about the operations of the facility, types and amounts of materials processed, storage capacity, procedures in place to prevent nuisance conditions or discharges of contaminants to the environment from the materials, and certification that the facility produces recovered recyclable materials in accordance with market quality specifications.

Table 2: Recyclable Materials Collected by ResponsibleUnits and Reported to DNR (tons)

Materials				
Banned from		Other	Non-	
Landfills	Yard	Banned	Banned	
as of 1995*	Waste	Materials**	Materials***	Total
226,701	213,635	18,018	3,195	461,549
360,669	210,288	22,598	47,316	640,871
361,001	241,492	20,848	76,344	699,685
389,161	280,213	25,950	71,682	767,006
379,772	288,606	26,703	99,240	794,321
389,381	278,275	26,668	70,994	765,318
386,302	252,479	24,956	66,846	730,583
394,297	260,047	23,498	49,214	727,056
387,060	248,165	25,927	53,341	714,493
387,877	260,396	22,097	65,240	735,610
407,660	281,506	19,315	21,142	729,623
407,004	283,489	15,867	21,872	728,232
	Banned from Landfills as of 1995* 226,701 360,669 361,001 389,161 379,772 389,381 386,302 394,297 387,060 387,877 407,660	Banned from Landfills Yard as of 1995* Waste 226,701 213,635 360,669 210,288 361,001 241,492 389,161 280,213 379,772 288,606 389,381 278,275 386,302 252,479 394,297 260,047 387,060 248,165 387,877 260,396 407,660 281,506	Banned from LandfillsOther Banned Materials**226,701213,63518,018360,669210,28822,598361,001241,49220,848389,161280,21325,950379,772288,60626,703389,381278,27526,668386,302252,47924,956394,297260,04723,498387,060248,16525,927387,877260,39622,097407,660281,50619,315	Banned from LandfillsYard WasteBanned Banned Materials**Non- Banned Materials**226,701213,63518,0183,195360,669210,28822,59847,316361,001241,49220,84876,344389,161280,21325,95071,682379,772288,60626,70399,240389,381278,27526,66870,994386,302252,47924,95666,846394,297260,04723,49849,214387,060248,16525,92753,341387,877260,39622,09765,240407,660281,50619,31521,142

*Includes old newspapers, old magazines, old corrugated cardboard, office paper, aluminum cans, steel cans, glass containers, plastic containers, comingled containers and polystrene foam.

** Includes appliances, tires, lead acid batteries, and used oil.

*** Includes scrap metal, used clothing or textiles, miscellaneous recyclables, waste electronics, and residential mixed paper.

Responsible units reported to DNR that they collected a total of 728,232 tons of recyclable materials from residences in 2005. The amount of recyclable materials collected by responsible units in 1994 through 2005, as reported to DNR, is shown in Table 2. Approximately 58% of recyclable materials collected in 2005 were materials subject to the 1995 bans and 39% was yard waste subject to the 1993 bans. Residential recycling programs collected an average of 260 pounds per capita in 2005 (an increase from 250 pounds per capita in 1995 and a decrease from 289 pounds per capita in 1999), including 145 pounds per capita of the 1995 banned materials.

Franklin Associates completed a study of recyclable materials for DNR using 2000 solid waste tonnage data, and revised their data for 2000 in 2003. The study estimated that collected recyclable materials represented a statewide average of 34% of municipal solid waste generated in 2000 (residential and commercial solid waste). As part of its study of 2000 data, Franklin Associates revised data for its earlier 1995 study and estimated that collected recyclable materials also represented a statewide average of 34% of municipal solid waste generated in 1995. The actual recycling rates vary among municipalities. DNR has not updated the estimate of collected recyclable materials as a statewide average percentage of municipal solid waste generated since 2000.

Local Government Enforcement

DNR has worked with responsible units on a few cases where the responsible unit took enforcement action against a waste hauler that was collecting separated recyclables with solid waste and landfilling all of the materials.

Responsible units reported to DNR that in 2005, they took the following actions related to enforcing landfill bans: (a) 418 responsible units issued verbal warnings; (b) 188 issued written warnings; and (c) 41 issued citations.

Exceptions, Variances and Waivers to the Effective Program Criteria

DNR may grant a variance to a specific responsible unit from certain effective program criteria for one or more of the materials subject to the 1995 landfill and incinerations bans. DNR may grant the variance to a specific responsible unit if a cost of selling processed material exceeds certain criteria. A description of the conditions under which a variance may be granted is included in Appendix VI.

There are certain exceptions to the 1995 bans which apply to effective recycling programs. These include exceptions for materials in regions with a grandfathered incinerator, incinerators that burn solid waste as a supplemental fuel, certain medical waste. unexpected emergency conditions. beneficial reuse of a material within a landfill, contaminated materials and certain plastics (foam polystyrene packaging and plastic containers other than PETE or HDPE) if recycling is not feasible. Appendix IV describes these situations. Issuance of variances, waivers or conditional waiver eliminates for effective recycling programs the requirement to separate those materials, or the prohibition on disposal or incineration of those materials, or both.

In October, 1996, DNR issued a waiver to the collection and disposal requirements for #3 through #7 plastic containers and polystyrene foam packaging, based on a departmental study that indicated that it is not feasible or practical to continue collecting these materials under current market conditions. The waiver has been in effect for over 10 years and will continue until one year after DNR determines that markets are available for these materials.

Pilot Program for Alternative Compliance With Effective Program Requirement

In 2001 Act 16, a pilot program was created to offer up to nine responsible units an alternative

method of complying with the effective recycling program requirements of materials to be recycled by allowing them to select materials to be recycled instead of the materials subject to the 1995 landfill and incineration bans. Participation in the program is voluntary. DNR was required to select three responsible units with a population of less than 5,000, three responsible units with a population of at least 5,000 but less than 25,000, and three responsible units with a population of at least 25,000 to participate in the pilot program.

DNR was required to promulgate administrative rules for the program that do all of the following: (a) set goals for materials to be recycled as a percentage of solid waste generated in the geographic area served by the responsible unit; (b) establish a list of recyclable materials that could be collected for recycling by responsible units, including materials currently subject to the 1995 landfill bans and other recyclable materials; (c) specify a procedure for a responsible unit to identify the materials that it will require to be separated for recycling under its recycling program; and (d) specify a procedure to be used by DNR to determine whether a responsible unit has achieved the recycled materials percentage goals. The pilot program ended on December 31, 2005.

The pilot program was implemented through an amendment to administrative rule NR 544, effective February 1, 2003. Responsible unit applicants were required to identify materials to be recycled from at least four of seven categories listed in the rule (paper, organics, metal, glass, plastic, special wastes, and other waste) and at least nine of the 29 materials listed. Applicants were also required to submit: (a) a market plan for any new materials the responsible unit proposed to recycle; (b) the baseline recycling rate (the percent of materials collected for recycling in a base period before implementation of the pilot program); (c) the parties affected by participation in the pilot program (such as providers of collection services, marketing services and solid waste disposal facilities); (d) a description of how the responsible unit would prevent recyclable materials from being disposed of in solid waste generated by other responsible units; and (e) an explanation of how the responsible unit would make any necessary changes to its local recycling ordinance. DNR was authorized to select nine responsible units that best met the program criteria. Responsible units would be required to submit an annual report to DNR that demonstrates compliance with the pilot program requirements.

The City of Kenosha was the only applicant for the pilot program. DNR approved Kenosha's pilot program on January 20, 2004. Under the pilot, the City chose to eliminate curbside collection of glass. Instead, the City began offering residents an opportunity to drop off some construction materials such as clean wood, concrete, stone, brick and masonry for recycling at designated locations. There was public resistance to eliminating the collection of glass. Kenosha decided to discontinue its participation in the pilot program, continue recycling glass, and switch to single stream collection of recyclables in 2005. Single stream collection is a system where all of the recyclables being collected (such as newspaper, cardboard, plastic, and glass) are mixed together in a collection truck, instead of being sorted by the resident, and are transported to a processing facility to be sorted into marketable commodities. DNR officials indicate that Kenosha's experience demonstrated that municipalities need to anticipate the public commitment to recycling banned materials, and the planning that is necessary to make a significant change in an established recycling program.

Out-of-State Waste

1989 Act 335 and 1997 Act 27 established requirements for governmental units located outside Wisconsin to receive approval as effective recycling programs in order to dispose of solid waste in Wisconsin. Several of these provisions were found to be unconstitutional by federal courts. Provisions related to out-of-state waste are described in Appendix VII.

Solid Waste Haulers

Haulers who collect and transport solid waste are required to be licensed by DNR under solid waste management statutes and are required to comply with the solid waste landfill bans. Administrative rule changes effective July 1, 2005, require haulers who collect and transport municipal solid waste to notify their clients (the contracting entity or the entity that arranges for collection and transportation service) of the need to comply with state and local recycling requirements. Haulers are also required to provide information to responsible units about the amount of recyclable materials collected under contract with the responsible unit, within four weeks of a written request from the responsible unit.

DNR sent annual letters to licensed haulers of solid waste and recyclable materials to review the recycling and landfill ban requirements. In addition, DNR sent reminder notices to haulers to remind them of the 2005 administrative rule changes that require haulers to annually notify their customers about state and local recycling requirements and landfill bans. DNR also sent letters to licensed haulers to remind them that haulers must keep collected recyclable materials separate from solid waste, and must maintain separated recyclables in clean condition.

In addition, DNR sent letters to haulers to remind them that equipment containing cathode ray tubes (such as in computers and televisions), and certain types of light bulbs, might have lead or mercury levels high enough to meet the definition of hazardous waste. Such hazardous wastes from businesses or institutions can not be disposed of in Wisconsin landfills. Household hazardous wastes are not subject to this prohibition.

STATE-FUNDED RECYCLING FINANCIAL ASSISTANCE

State law includes several state-funded programs that provide financial assistance to local governments and businesses for solid waste recycling and waste reduction purposes. These programs are funded from the segregated recycling fund. The revenue sources for this fund include a recycling surcharge and a recycling tipping fee. The recycling fund and revenue sources are described at the end of this Chapter. The recycling fund also funds costs of administering these programs and of administering and enforcing many of the recycling regulations discussed in other sections of this paper. Appendix I lists recycling financial assistance program costs and administrative, regulatory and enforcement costs that are funded from the recycling fund.

Municipal and County Recycling Grant Program

The municipal and county recycling grant program was created in 1989 Act 335 to provide financial assistance to responsible units for eligible recycling expenses incurred from July 1, 1990, through calendar year 1999. Grant funding exceeded \$29,000,000 in each of 1994 through 1997. 1997 Act 27 provided \$24,000,000 annually for grant funding beginning in 1998 and extended the grant program through the year 2000. 1999 Act 9 increased the annual amount of grant funding to \$24,500,000 beginning in 2000 and deleted the sunset of the appropriation.

Annual funding amounts are shown in Table 3.

Table 3: Municipal and County RecyclingGrant Program Funding Levels 1990-91Through 2006-07

Calendar Year	Fiscal Year	Amount
July 1, 1990 to		
Dec 31, 1991	1990-91	\$18,500,000
1992	1991-92	18,500,000
1993	1992-93	23,800,000
1994	1993-94	29,849,200
1995	1994-95	29,200,000
1996	1995-96	29,200,000
1997	1996-97	29,200,000
1998	1997-98	24,000,000
1999	1998-99	24,000,000
2000	1999-00	24,500,000
2001	2000-01	24,500,000
2002	2001-02	24,500,000
2003	2002-03	24,500,000
2004	2003-04	24,500,000
2005	2004-05	24,500,000
2006	2005-06	24,500,000
2007	2006-07	24,500,000
Total		\$422,249,200

Eligible Recipients of Grant Awards

1989 Act 335 created the municipal and county grant program. To provide start-up funding quickly, grants for the period from July 1, 1990, through December 31, 1991, were allocated through a special expedited process. Grants for subsequent years are allocated based on additional criteria. 1999 Act 9 changed the grant formula for 2000 and subsequent grant years to provide a proportional distribution based on 1999 awards. Table 4 provides a summary of the criteria and allocation method through 2007.

-	
Calendar Year	Eligibility Criteria and Allocation
1990 - 2001	• Eligible uses of grant funds include expenses for planning, constructing or operating one or more of the components of an effective recycling program, or to comply with the 1993 yard waste ban.
1990 and 1991	 Expedited grants Grants based on population 1st installment to all municipalities 2nd and 3rd installments to responsible units only No application required Grants could be used to purchase capital equipment
1992 – 1993	 Only responsible units eligible Application required by September 1 of prior year Grant award based on projected eligible expenses 50% of award paid by January 1 of calendar grant year Additional 25% paid by July 1 of grant year Final 25% grant payment based on report of actual expenditures submitted by April 30 of year following grant year
1992 – 2005	• Eligible capital expenses are limited to annual depreciation, or equipment on an hourly use basis, with the exception of the purchase of land.
1994	• Same as for grant years 1992 - 1993, except application required by October 31, 1993
1995 – 2005	 Grants only available to responsible units with DNR-approved effective recycling programs Application required by October 1 of prior year Late applications reduced to receive: if submitted after October 1 and by October 10, 95% of the awarded amount; if submitted after October 10 and by October 20, 90%; if submitted after October 20 and by October 30, 75%; and if submitted after October 30, no grant
1995 – 1999	 Grants only available to responsible units with DNR-approved effective recycling programs 50% of award paid by February 1 of calendar grant year Additional 25% of award paid by July 1 of grant year Final 25% grant payment based on report of actual expenditures submitted by April 30 of year following grant year
2000	 Grants only available to responsible units with DNR-approved effective recycling programs that received a grant in 1999
2000 – 2001 and 2003-2007	• 100% of award paid by June 1 of calendar grant year
2001 - 2007	Grants only available to responsible units with DNR-approved effective recycling programs

Table 4: Municipal and County Recycling Grant Program Award Eligibility and Allocation Method

Program Implementation

The grant allocation formula used between 1991 and 1999 was complex, and was based on eligible expenses, "avoided disposal costs," the grant year, and other factors. Avoided disposal costs are those costs that are not incurred by the responsible unit because material is recycled rather than disposed of by landfilling or incineration (such as landfill tipping fees). From 1992 through 2007, the grants were calculated using the formulas shown in Table 5. For the 16 grant periods to date, Table 6 shows the number of responsible units of government eligible for awards, the total award amount before proration (eligible grant amount under the formula), the amount by which individual grants were prorated, if applicable, and the average per capita award. In 1992 through 1999, all grants were prorated by an equal percentage (after providing the minimum \$100,000 grants to certain counties as described in Table 5). This was because the available appropriation was less than the eligible grant under the formula. Table 7 shows the total state grant award as a percent of the net eligible recycling costs. In 1992, the first year of the grant formula, grant awards averaged 52% of net eligible recycling costs. The award as a percent of costs has decreased in subsequent years. In 2006, the most recent grant award cycle, grant awards (including basic grants plus recycling efficiency incentive grants) averaged 27.4% of the estimated \$96.2 million in net eligible recycling costs. The award as a percent of net eligible recycling costs varied for individual responsible units.

From 1992 through 1999, initial awards were made at the beginning of the calendar year based on the estimated recycling costs of responsible unit grantees, and were converted into final grant amounts late in the following calendar year after actual cost data was submitted to DNR by

Year	Formula
1992	66% of the difference between eligible expenses and avoided disposal costs or \$6 per capita, whichever is less.
1993-1999	66% of the difference between eligible expenses and avoided disposal costs or \$8 per capita, whichever is less.
1992-1999	Minimum grant: If the amount calculated is less than 33% of eligible expenses, the grant equals 33% of eligible expenses.
1992-1999	Minimum for certain counties: Counties that are responsible units for at least 75% of the population of the county are guaranteed a minimum grant of \$100,000, if they have eligible expenses equal to or greater than that amount.
1993-1999	Statutory per capita proration: If available funds are insufficient to fund grants under the above schedules, the first step in prorating grants is to ensure that all grantees eligible for \$6 per capita receive this amount before any grantee receives between \$6 and \$8 per capita.
1994-1999	Supplemental grant for volume-based fees: 10% of grant funds will be allocated to responsible units imposing volume-based fees for residential solid waste collection. The total basic plus supplemental grant may not exceed the responsible unit's eligible expenses.
1994-1999	Supplemental grant for multifamily residences: Any funds remaining from the supplemental grant for volume-based fees above may be used for supplemental grants to responsible units that provide for collection of recyclable materials from multifamily residences and that impose volume-based fees for residential solid waste collection. The total basic plus supplemental grants may not exceed the responsible unit's eligible expenses.
1992-1999	DNR administrative rule proration formula: If funds are not available to support the \$6 per capita proration, DNR is directed to develop a process by administrative rule to prorate grant funds. Under administrative rule NR 542, the proration formula maintains the minimum \$100,000 grant for counties that are responsible units representing at least 75% of that county's population, and prorates all other grants by an equal percentage.
2000-2007	Proportional distribution: Provide a grant to responsible units equal to the same percentage of the total grant funding as the responsible unit received or would have received in 1999.

Table 5: Municipal and County Recycling Grant Program Allocation Formula by Year

Table 6: Summary of Municipal and County Recycling Grant Amounts

Calendar Year*	Number of Grantees	Net Eligible Recycling Costs	Formula Award Amount	Actual Award Amount	Proration Percent	Average Per Capita Award Amount
1990/1991 final	1,860 **	NA	NA	\$18,500,000	NA	\$3.77
1992 final	870	\$35,588,600	\$19,268,400	18,452,200	95.4%	4.07
1993 final	941	48,520,200	26,276,600	23,741,300	89.8	4.98
1994 final Basic	1,001	56,520,200	29,495,400	26,860,700	90.6	5.44
Supplemental	211 ***	NA	<u>NA</u>	2,943,900	<u>NA</u>	<u>10.50</u>
Total	1,001	56,520,200	29,495,400	29,804,500	NA	6.04
1995 final Basic	1,010	61,023,800	30,832,100	26,182,500	84.1	5.21
Supplemental	283 ***	NA	NA	2,914,100	NA	6.92
Total	1,010	61,023,800	30,832,100	29,096,600	NA	5.80
1996 final Basic	1,018	66,340,000	33,194,200	26,278,600	78.1	5.18
Supplemental	299 ***	00,540,000 NA	55,194,200 NA	2,915,900	<u>NA</u>	<u>5.89</u>
Total	1,018	66,340,000	33,194,200	29,194,500	NA	<u>5.85</u> 5.75
Total	1,010	00,540,000	55,174,200	29,194,500	14/1	5.15
1997 final Basic	1,016	68,842,900	34,123,800	26,268,900	75.9	5.13
Supplemental	290 ***	NA	NA	2,917,900	NA	<u>5.84</u>
Total	1,016	68,842,900	34,123,800	29,186,800	NA	5.71
1998 final Basic	1,018	71,442,200	34,963,200	21,440,200	59.6	4.15
Supplemental	292 ***	NA	NA	2,417,900	NA	4.38
Total	1,018	71,442,200	34,963,200	23,858,100	NA	4.61
1000 (* 15 '	1.011	72 2 (2 (0)	25 221 200	21 721 500	50.0	4.10
1999 final Basic	1,011 _ <u>296</u> ***	73,262,600	35,221,300	21,731,500	59.8	4.18
Supplemental Total	<u>1,011</u>	<u>NA</u> 73,262,600	<u>NA</u> 35,221,300	2,397,900	NA NA	$\frac{4.13}{4.64}$
Total	1,011	75,202,000	55,221,500	24,129,400	INA	4.04
2000 final Total	999	76,581,100	NA	24,312,500	NA	4.66
2001 final Total	1,011	84,124,200	NA	24,276,700	NA	4.59
2002 final Total	1,016	82,624,400	NA	24,387,500	NA	4.53
2002 C 15 .	1.016	04.406.600	274	24.404.000		4.50
2003 final Basic	1,016	84,426,600	NA	24,404,900	NA	4.50
Efficiency Incentive Total	$\frac{110}{1,016}$	<u>NA</u> 84,426,600	NA NA	<u>1,900,000</u> 26,304,900	NA NA	$\frac{0.71}{4.84}$
Total	1,010	84,420,000	INA	20,304,900	INA	4.04
2004 final Basic	1,013	85,661,000	NA	24,383,300	NA	4.48
Efficiency Incentive	77	NA	NA	1,900,000	NA	0.74
Total	1,013	85,661,000	NA	26,283,300	NA	4.83
2005 final Basic	1,010	90,136,100	NA	24,409,700	NA	4.43
Efficiency Incentive	148	NA	NA	1,898,200	NA	0.66
Total	1,010	90,136,100	NA	26,307,900	NA	4.78
2006 award Basic	1.013	96,201,300	NA	24,446,100	NA	4.40
Efficiency Incentive	120	50,201,500 NA	NA	1,900,000	NA	0.71
Total	1,013	96,201,300	NA	26,346,100	NA	4.74
NA: Not applicable		. /		. /		

NA: Not applicable

*For final grants, this equals the lesser of the actual net eligible recycling costs and the net eligible recycling costs that were estimated at the time of the initial grant award.

**This equals the 1990 total of 1,849 municipalities plus 11 Indian tribes. Since the first expedited grant installment was made to all municipalities and Indian tribes, and subsequent installments only to responsible units, this is the maximum number of units that received any of the expedited grant installments.

***All grantees that received a supplemental grant in 1994 through 1999 or an efficiency incentive grant in 2003 through 2006 first received a basic grant.

responsible units. For example, initial 1999 awards were made in February, 1999, based on estimated costs and converted into final grants in November, 2000.

For the expedited grant period, July 1, 1990, through December 31, 1991, grants were allocated by dividing total funding available by the population of eligible local governments. This resulted in a per capita payment of \$3.77 for the eighteen-month period.

Table 7:Municipal and County RecyclingGrants:Eligible Cost, Grant Award and Awardas Percent of Costs (\$ in Millions)

Calendar Year	Net Eligible Recycling Costs	Award Amount**	Grant Award as % of Net Eligible Costs
1992	\$35.6	\$18.5	52.0%
1993	48.5	23.7	48.9
1994	56.5	29.8	52.7
1995	61.0	29.1	47.7
1996	66.3	29.2	44.0
1997	68.8	29.2	42.4
1998	71.4	23.9	33.5
1999	73.3	24.1	32.9
2000	76.6	24.3	31.7
2001	84.1	24.3	28.9
2002	82.6	24.3	29.4
2003	84.4	26.3	31.2
2004	85.7	26.4	30.8
2005	90.1	26.3	29.2
2006*	96.2	26.3	27.4

*Estimated net eligible recycling costs.

**As of the 2003 grant year, includes basic grant plus efficiency incentive grant.

1999 Awards

The 1999 grant year was the last year in which the grant was calculated according to the formula used between 1991 and 1999. As indicated in the Table 5 description of the formula, the 1999 basic grant award was determined by first calculating 66% of the difference between eligible expenses and avoided disposal costs or \$8 per capita, whichever was less. The second step was to compare this amount with 33% of eligible expenses. The responsible unit received the greater of these two amounts. Third, counties that are responsible units for at least 75% of the county's population were guaranteed a minimum annual grant of \$100,000 if they had eligible expenses equal to or greater than that amount. The final step was to prorate the awards to meet available funding.

Ten percent of funds available for 1999 grants (\$2.4 million) were allocated for supplemental grants for volume-based fees. The supplemental grant was calculated by dividing the available funds by the population subject to volume-based fees in the 296 responsible units that imposed volume-based fees for residential solid waste collection. The population of the responsible unit that was subject to volume-based fees may be smaller than the population of the responsible unit.

The total of basic plus supplemental grant could not exceed the responsible unit's eligible recycling expenses.

As illustrated in Table 6, 1,011 responsible units in the state received grants for the 1999 grant year. The 1,011 responsible units submitted eligible grant requests totaling \$35,221,300. The final basic grants were prorated at 59.8% of the eligible amount and actual awards equaled \$21,731,500. Thirteen counties received the \$100,000 grants and four other counties were eligible for the \$100,000 grant but had projected expenditures less than \$100,000, so they received 100% of their net eligible request. These 17 county grants were not prorated. A total of 296 responsible units also received supplemental grants totaling \$2,397,900. The total final grant award amount was \$24,129,400. The 1999 final grant amount was greater than the \$24,000,000 listed in Table 3 because of the way the grant appropriation was structured. The appropriation allowed expenditures up to a cumulative total of grant funds between 1992-93 and 1998-99. Since the 1999 grant year was the final year of the cumulative appropriation, the program spent grant funds that had been authorized but not spent in prior years.

2000 Through 2006 Awards

Under 1999 Act 9, the structure of the local recycling grant appropriation and formula changed beginning in 1999-00 for grant year 2000. In order to be eligible for a grant in 2000, a responsible unit had to have received financial assistance in 1999 and DNR had to have determined that the responsible unit has an effective recycling program. In 2000, 11 responsible units applied for and did not receive grants because they did not receive a grant in 1999. Beginning in the 2001 grant year and in subsequent years, the requirement that a responsible unit have received a grant in 1999 does not apply. Instead, responsible units receive a grant equal to the same percentage of the total grant funding as the responsible unit received or would have received in 1999.

The 2006 grant amount was calculated as the same percentage of the 2006 appropriation of \$24,500,000 as the responsible unit received or would have received of the 1999 appropriation of \$24,000,000. The actual grant amount was capped by the projected net eligible recycling costs for each responsible unit, and was reduced by any late application penalty.

For the 2006 grant year, Tables 8 through 13 show the distribution of grant awards in several different ways and include the population represented by the responsible units receiving those awards, the net eligible recycling costs, the total grant award, the average per capita grant award and the grant award as a percent of net eligible recycling costs.

Table 8 shows the distribution of 2006 basic plus efficiency incentive grant awards by type of local government unit. While 58.4% of the responsible units were towns, towns represented 16.8% of the population of responsible units that received grant awards and 11.3% of the total grant award dollars. Responsible units that are cities represented 45.5% of the population and 48.1% of the total grant award dollars. While the statewide average award as a percent of the net eligible recycling costs was 27.4% and the average award per capita was \$4.74, these measurements varied by responsible unit.

Most of the responsible unit grant recipients had populations under 2,500. As shown in Table 9, the 725 responsible units with populations under 2,500 represented 71.6% of the responsible units that received grants, 13.5% of the population served through the grants and 10.9% of the total grant award dollars in 2006. In comparison, five responsible units with populations of 100,000 or greater represented 0.5% of the responsible units, but included 24.8% of the population that received grants and 26.2% of the total grant award dollars in 2006.

Table 10 lists the number and total dollar amount of 2006 recycling grant awards received by

				Basic Plus	Average	Average Award
	NULL		NL (DI CI L	Efficiency	Per Capita	as a % of
	Number		Net Eligible	Incentive	Grant	Net Eligible
Туре	of RUs	Population	Recycling Costs	Grant Award	Award	Recycling Costs
Town	592	935,013	\$11,690,592	\$2,986,131	\$3.19	25.5%
Village	237	636,190	13,732,368	2,741,113	4.31	20.0
City	129	2,529,480	51,523,865	12,659,709	5.00	24.6
County	34	1,393,277	17,590,044	7,600,431	5.46	43.2
Indian Tribe	10	20,575	1,226,686	202,532	9.84	16.5
Other	<u> 11</u>	42,249	437,793	156,173	3.70	35.7
Total	1,013	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%

Table 8: 2006 Municipal and County Recycling Grants to Responsible Units (RUs) by Governmental Unit Type

Population	Number of RUs	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
Less than 2,500	725	751,065	\$12,028,577	\$2,867,025	\$3.82	23.8%
2,500 to 4,999	120	414,932	7,231,500	1,626,814	3.92	22.5
5,000 to 9,999	68	480,098	8,667,729	2,204,250	4.59	25.4
10,000 to 24,999	61	960,274	17,599,315	4,661,480	4.85	26.5
25,000 to 49,999	23	827,616	13,670,890	4,195,378	5.07	30.7
50,000 to 99,999	11	745,482	10,369,669	3,892,935	5.22	37.5
100,000 and over	5	1,377,317	26,633,668	6,898,209	5.01	25.9
Total	1,013	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%

Table 9: 2006 Municipal and County Recycling Grants to Responsible Units (RUs) by Population Size

Table 10: 2006 Municipal and County Recycling Grants to Responsible Units (RUs) by Amount of Award

Award Amount	Number of RUs	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
\$1-4,999	552	494,036	\$5,204,962	\$1,209,108	\$2.45	23.2%
5,000-9,999	169	334,128	4,864,866	1,222,492	3.66	25.1
10,000-24,999	147	557,877	10,874,961	2,249,013	4.03	20.7
25,000-49,999	54	438,790	8,917,619	1,901,710	4.33	21.3
50,000-99,999	32	492,881	9,550,341	2,406,309	4.88	25.2
100,000-499,999	53	1,762,626	29,186,729	9,795,673	5.56	33.6
500,000 and over	6	1,476,446	27,601,870	7,561,786	5.12	27.4
Total	1,013	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%

the size of the award and includes the population represented within each category. Table 10 shows that 552 grant awards, totaling \$1,209,108, were made for less than \$5,000 each and were made to responsible units representing a total population of 494,036. These grants represent approximately 8.9% of the population of grantees and 4.6% of the awarded grants. Six grant awards, totaling \$7,561,786, were each \$500,000 or larger and were made to approximately 26.6% of the population served and approximately 28.7% of the grant award dollars.

For the 2006 grant year, the grant award averaged \$4.74 per capita. The award averaged 27.4% of the net eligible recycling costs. Table 11 shows that this varied among responsible units.

Approximately 21.1% of the grantees, with 7.1% of the total grantee population, received awards that averaged less than \$2 per capita, with awards averaging 18.3% of total net eligible recycling costs. In comparison, 22 responsible units, with 1.5% of the total grantee population, received awards that averaged \$10 and over per capita, with these awards averaging 29.1% of the net eligible recycling costs of the 22 responsible units.

Table 12 shows the grant award as a percent of the net eligible recycling costs. The award as a percent of net eligible recycling costs varied widely, ranging from 2% to 100% of net eligible recycling costs. In the group of 301 responsible units that had awards that averaged less than 20% of net eligible recycling costs, the per capita award

Award Per Capita	Number of RUs	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
\$0.01 to \$1.99	214	393,625	\$2,717,448	\$496,546	\$1.26	18.3%
2.00 to 3.99	350	1,045,417	14,627,907	3,243,938	3.10	22.2
4.00 to 5.99	304	3,353,969	62,913,054	16,580,102	4.94	26.4
6.00 to 7.99	86	530,854	8,486,326	3,589,087	6.76	42.3
8.00 to 9.99	37	148,612	3,541,191	1,295,397	8.72	36.6
10.00 and over	22	84,307	3,915,422	1,141,021	13.53	29.1
Total	1,013	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%

Table 11: 2006 Municipal and County Recycling Grants to Responsible Units (RUs) by Award Per Capita

Table 12:2006 Municipal and County Recycling Grants to Responsible Units (RUs) by Award as a Percent ofNet Eligible Recycling Costs

Award as % of Net Eligible Recycling Costs	Number of RUs	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
0.1% to 19.99%	301	1,272,868	\$33,550,547	\$5,102,991	\$4.01	15.2%
20 to 39.99	483	3,029,891	50,859,406	14,368,511	4.74	28.3
40 to 59.99	142	779,841	7,545,388	3,746,204	4.80	49.6
60 to 79.99	50	339,791	3,129,853	2,104,878	6.19	67.3
80 to 100 *	37	134,393	1,116,153	1,023,507	7.62	91.7
Total	1,013	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%

* For two Responsible Units, the basic plus efficiency incentive grant exceed 100% (103.4% and 103.7%) of the estimated 2006 net eligible recycling, but the sum of the two grants could not exceed the actual net eligible recycling costs for 2004.

ranged from \$0.15 to over \$42. In the group of 37 responsible units that had awards that averaged 80% to 100% of net eligible costs, the per capita award ranged from \$0.10 to over \$22.

Table 13 lists the 59 responsible units with grant awards of \$100,000 or greater for the 2006 grant year. These responsible units, all of which are cities or counties, except for three villages, include 58.2% of the total grantee population and 65.9% of the total grant awards. The grant award for the 59 responsible units as a percent of net eligible recycling costs varied from 14% to 100%, depending on the 1999 grant amount, estimated net eligible costs and whether the responsible unit received an efficiency incentive grant.

Administration of Grants

The grant program is administered by DNR in the Bureau of Community Financial Assistance in the Customer and Employee Services (CAES) Division central office. In 2006-07, the central office is authorized 2.0 segregated (SEG) recycling fund positions to administer the municipal and county recycling grant program, the waste reduction and recycling demonstration grant program and the recycling efficiency incentive grant program.

Audit of Grants and Responsible Units

Prior to 2001-02, the statutes directed DNR to annually audit at least 5% of the recipients of the

grants to ensure that funded programs and activities meet established requirements. DNR could withhold all or part of a grant if it determined that either: (a) the responsible unit has not maintained an effective recycling program; or (b) the responsible unit spent all or part of a previous grant for ineligible costs. After final grants were determined, DNR audited 108 grants totaling \$24.5 million received by 44 recipients of 1992 through 1999 grants. DNR audits resulted in some adjustments to eligible expense totals, but audited responsible units generally received their entire grant. No responsible units were disqualified from grant eligibility as a result of an audit.

In 2001 Act 16, the audit requirement was deleted and replaced with a requirement that DNR annually review the effective recycling programs of at least 5% of the responsible unit grant recipients to ensure that programs and activities funded by responsible unit grants meet the requirements of the program. Based on 1,013 responsible unit grant recipients, DNR would need to review at least 51 programs annually to comply with the annual review requirement. In each of 2000-01 through 2005-06, DNR has exceeded that requirement. In each of 2002-03 and 2003-04, DNR reviewed at least 150 programs. This represented almost 15% of responsible units. DNR selected programs for review that had prior problems with the program, incomplete had provided annual report information, received complaints from had residents, had a lower annual recycling rate than the per capita goals, or had an exceptionally good program that could provide lessons about how to operate a successful program.

In addition, in 2003-04, half of the programs reviewed received a recycling efficiency incentive grant in addition to the basic grant. DNR regional staff made site visits to review programs and worked with responsible units to correct any observed program deficiencies. DNR has not placed any responsible units on probation as a result of the reviews. However, staff followed up on noncompliance issues with several responsible units, and all of the issues were addressed by responsible units to the satisfaction of DNR staff within the specified timeframes.

In each of 2004-05 and 2005-06, DNR reviewed almost 200 programs, which was over 19% of the responsible units receiving recycling grants. The Department also reviewed at least 25% of the responsible units that received recycling efficiency incentive grants. During 2004-05 and 2005-06, DNR regional staff held group audit sessions with several responsible units at the same time. DNR identified one serious case of non-compliance during the time period, which involved a few towns where recyclables were being disposed of in the local landfill because the towns discontinued recycling drop-off locations without establishing recycling alternatives for their residents. One town corrected the problem by improving recyclables collection, and two other towns received notices of non-compliance in October, 2006.

Recycling Efficiency Incentive Grant Program

In 2001 Act 16, a recycling efficiency incentive grant program was created and the program is appropriated \$1,900,000 SEG annually beginning in 2002-03. A recycling efficiency incentive grant plus a municipal and county recycling grant may not exceed the net eligible costs that the responsible unit incurred in the year two years before the year for which the efficiency incentive grant is made. For example, a recycling efficiency incentive grant awarded in 2006-07 for calendar year 2007, may not exceed the total net eligible costs from calendar year 2005 and reported to DNR in the spring of 2006.

The statutes do not specify eligibility criteria or program requirements and do not define "efficiency incentive." Responsible units may choose whether to apply for a grant under the program. DNR promulgated administrative rule chapter NR 549, effective April 1, 2003, to administer the recycling efficiency incentive grant program.

Municipality/County	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
Milwaukee, City of*	592,765	\$10,357,000	\$3,217,258	\$5.43	31.1%
Waukesha County*	270,249	5,181,286	1,320,851	4.89	25.5
Madison, City of	221,735	6,036,519	957,942	4.32	25.5 15.9
Outagamie County*	188,498	1,418,143	937,942 802,607	4.32 4.26	15.9 56.6
Eau Claire County*		968,202	663,577	4.20 6.69	68.5
Eau Claire County	99,129	900,202	003,377	0.09	00.0
Green Bay, City of*	104,070	3,640,720	599,551	5.76	16.5
Kenosha, City of	93,785	1,158,244	468,566	5.00	40.5
Racine, City of*	80,500	1,350,485	438,517	5.45	32.5
West Allis, City of*	60,515	1,113,761	350,751	5.80	31.5
Oshkosh, City of*	65,445	1,179,482	331,044	5.06	28.1
Portage County*	59,624	1,151,879	306,043	5.13	26.6
Chippewa County*	55,400	504,854	300,926	5.43	59.6
Manitowoc, City of*	34,727	464,300	292,153	8.41	62.9
St. Croix County*	66,787	482,123	275,190	4.12	57.1
Pierce County*	39,468	732,636	273,594	6.93	37.3
Janesville, City of	62,130	685,362	271,315	4.37	39.6
Neenah, City of*	25,338	1,154,181	270,833	10.69	23.5
Wauwatosa, City of*	46,312	1,214,060	257,438	5.56	21.2
Oconto County	38,243	399,813	255,055	6.67	63.8
La Crosse, City of*	51,426	662,912	253,132	4.92	38.2
Waupaca County*	42,819	568,442	239,855	5.60	42.2
Sheboygan, City of	50,741	1,112,365	233,873	4.61	21.0
Dunn County*	39,494	611,372	235,875	5.49	35.5
Monroe County*	39,494 41,957	504,000	201,327	4.80	39.9
Vernon County*	29,574	566,089	194,353	6.57	34.3
Vernon County	23,374	300,003	154,555	0.57	54.5
Columbia County*	40,152	682,377	193,185	4.81	28.3
Beloit, City of*	36,106	804,979	191,326	5.30	23.8
Polk County	44,533	244,249	190,997	4.29	78.2
Fond Du Lac, City of	43,101	1,331,060	188,312	4.37	14.1
Wausau, City of	39,275	661,263	177,647	4.52	26.9
Greenfield, City of*	36,136	633,607	173,966	4.81	27.5
Vilas County	22,215	470,176	141,625	6.38	30.1
De Pere, City of*	22,310	481,540	133,944	6.00	27.8
Allouez, Village of*	15,405	701,896	133,853	8.69	19.1
Adams County*	19,360	225,892	132,238	6.83	58.5
West Rond City of	20 619	500 951	190 760	1 90	99 A
West Bend, City of	29,612 22,073	589,251	129,768	4.38	22.0 12.7
Watertown, City of	22,973 22,604	1,011,551	128,584	5.60 5.52	12.7
Fitchburg, City of	22,604	423,500 207 450	124,756	5.52	29.5 59.8
Oneida County* Buffalo County	31,140	207,450	124,047	3.98 10.47	
Buffalo County	11,814	155,565	123,668	10.47	79.5

Table 13: 2006 Municipal and County Recycling Grants to Responsible Units (RUs) - Largest 56 Grant Awards Includes All Awards of \$100,000 or Greater

Municipality/County	Population	Net Eligible Recycling Costs	Basic Plus Efficiency Incentive Grant Award	Average Per Capita Grant Award	Average Award as a % of Net Eligible Recycling Costs
Richland County	16,423	\$207,314	\$121,477	\$7.40	58.6%
Superior, City of	27,249	556,507	121,227	4.45	21.8
Burnett County*	16,129	139,013	119,071	7.38	85.7
Jackson County*	19,363	174,509	116,118	6.00	66.5
Menomonee Falls, Village of*	33,939	324,300	115,141	3.39	35.5
Washburn County*	17,000	142,289	114,074	6.71	80.2
Two Rivers, City of*	12,585	333,783	112,083	8.91	33.6
Iron County	6,922	119,717	111,797	16.15	93.4
Ashwaubenon, Village of*	17,626	364,146	111,029	6.30	30.5
Oak Creek, City of	31,497	569,324	110,201	3.50	19.4
Taylor County	14,959	257,201	108,829	7.28	42.3
South Milwaukee, City of	21,373	473,600	105,319	4.93	22.2
Waushara County	24,089	172,742	104,242	4.33	60.3
Door County	29,299	285,000	102,083	3.48	35.8
Forest County	10,213	121,382	102,083	10.00	84.1
Menominee County	4,616	117,640	102,083	22.12	86.8
Wisconsin Rapids, City of*	18,522	387,546	100,190	5.41	25.9
Florence County	5,213	100,000	100,000	19.18	100.0
Marquette County	14,588	100,000	100,000	6.85	100.0
Total - 59 Largest Grants Basic Plus REI Grant					
\$100,000 or Greater	3,239,072	\$56,788,599	\$17,357,459	\$5.36	30.6%
Statewide Total – 1,013 Grants	5,556,784	\$96,201,348	\$26,346,090	\$4.74	27.4%
59 Largest Grants % to Total	58.3%	59.0%	65.9%	NA	NA

Table 13 (continued): 2006 Municipal and County Recycling Grants to Responsible Units (RUs) Largest 56 Grant Awards Includes All Awards of \$100,000 or Greater

*Municipality/county received a recycling efficiency incentive grant (REI). The 59 municipalities/counties received \$1,643,275 (86.5%) of \$1,900,000 in REI grants awarded in 2005-06.

Under NR 549, DNR awarded and distributed the \$1,900,000 in available funding for the first grant cycle in 2002-03 (calendar year 2003) at the end of June, 2003. Under NR 549, responsible unit applicants were authorized to claim the following types of efficiencies for calendar year 2003 grant funds:

1. The responsible unit was formed by the consolidation of two or more prior responsible

units before March 31, 2003.

2. A county has formally been designated by cities, towns, and villages within its jurisdiction to serve as the recycling responsible unit before March 31, 2003. A county is eligible for a grant under this criteria only once.

3. The responsible unit entered into a cooperative agreement before March 31, 2003, with

at least one other responsible unit for: (a) direct recycling services by or for the responsible unit; or (b) private vendor services to be shared by the participating responsible units.

Applications for the second grant cycle in 2003-04 for calendar year 2004 were due by October 30, 2003, and DNR distributed the \$1,900,000 in available funding at the end of June, 2004. For calendar year 2004 grants, applicants were authorized to claim the following measures of efficiency:

1. Formal consolidation agreements of two or more responsible units entered into between April 1, 2003, and October 30, 2003, and in place no later than January 1, 2004.

2. New written cooperative agreements for direct recycling services or shared private vendor services entered into between April 1, 2003, and October 30, 2003, and in place no later than January 1, 2004.

In 2004-05 and subsequent years, applications must be submitted to DNR by October 30 before the grant year, and shall claim that an efficiency was implemented between October 31 of the previous year and October 30 of the year in which the application is made, and was in place before April 30 of the year in which the application is made. Grants are awarded in May of the following year, at the same time as basic grants are awarded. For example, applications for 2006-07 funding for calendar year 2007 were due by October 30, 2006, and must claim that a recycling efficiency was implemented between October 31, 2005, and October 30, 2006, and was in place before April 30, 2006. Efficiencies could include formal consolidation agreements of two or more responsible units or new written cooperative agreements for direct recycling services or shared private vendor services.

Under the NR 549 recycling efficiency incentive grant administrative rule, eligible costs include the grant applicant's costs of operating the recycling program minus the proceeds from the sale of recycled material, that are reasonable and necessary for planning, constructing or operating a recycling program.

If responsible unit applicants claim that they are implementing a recycling efficiency through a cooperative agreement for joint services or private vendor services, the agreement must be entered into with the expectation of either a reduction in eligible costs for the year or an increase in the quality or scope of the recycling program for the year in which the responsible unit attributes the efficiency measures. The agreement must address at least one of the following elements: (a) comprehensive program planning; (b) collection and transportation of recyclables; (c) sorting recyclables at a materials recovery facility; or (d) educational efforts about waste reduction, reuse and recycling.

Under NR 549, DNR awards a grant to each responsible unit that submits a complete application that is approved by the Department. The grant amount is determined as follows: (a) DNR determines a per capita grant amount by dividing the appropriated grant funds by the sum of the population of all responsible units with approved applications; (b) the per capita amount is multiplied by the population of each eligible responsible unit to determine the grant amount; (c) DNR limits the grant amount so that the grant plus the municipal and county recycling grant does not exceed the net eligible costs that the responsible unit incurred in the year two years before the year for which the efficiency incentive grant is made; and (d) DNR distributes all funds in a grant year to eligible applicants until all eligible applicants have received their statutory maximum awards.

Table 14 summarizes the recycling efficiency incentive grants awarded for calendar year 2003 through 2006. Counties are only eligible for a grant in the year that they were consolidated into county responsible unit status, or in the first year of the program (2003) if they had county RU status before

Grants				
Calendar Year/Efficiency Incentive Type	Number of RUs	Population	Award Amount	Avg. Per Capita Award Amount
2003				
County	29	1,274,877	\$884,320	
Cooperative agreement	64	1,366,008	973,892	
Consolidation	17	61 691	11 799	

Table 14:	Summary of	Recycling	Efficiency	Incentive
Grants				

Incentive Type	of RUs	Population	Amount	Amount
2003				
County	29	1,274,877	\$884,320	
Cooperative agreement	64	1,366,008	973,892	
Consolidation	17	61,681	41,788	
Total	110	2,702,566	\$1,900,000	\$ 0.71
2004				
Cooperative agreement	74	2,455,406	\$1,835,282	
Consolidation	3	101,765	64,718	
Total	<u>3</u> 77	2,557,171	\$1,900,000	\$ 0.74
2005				
Cooperative agreement	147	2,861,755	\$1,877,984	
Consolidation	1	30,793	20,243	
Total	148	2,892,548	\$1,898,227	\$ 0.66
2006				
Cooperative agreement	120	2,694,600	\$1,900,000	\$ 0.71

that time. No counties have been consolidated into county responsible unit status since 2003. The average per capita grant amount includes capping of the grant for a few responsible units at a lower per capita amount so that the grant would not exceed the net eligible costs that the responsible unit incurred in the year two years before the year for which the efficiency incentive grant was made.

Some of the types of recycling efficiencies implemented through the 2006 grant cycle include cooperative agreements between multiple responsible units for recycling glass, mixed paper, plastic, and light bulbs. In addition, groups of responsible units have cooperated on educational outreach efforts.

Recycling Market Development Board

Recycling market development programs were administered by the former Department of Development (now Commerce) from 1991-92 through 1994-95. The Department spent \$15.1 million on recycling market development grants,

loans, technology assistance and rebates for qualified recycling equipment.

The Recycling Market Development Board (RMDB) existed from 1993-94 through 2003-04, and took over responsibility for many of the recycling market development programs formerly administered by the Department of Development. The RMDB worked to promote the development of markets for recovered materials and maximize the marketability of these materials. The RMDB administered several recycling market development programs that provided financial assistance to governmental entities or business entities to assist waste generators in the marketing of recovered materials or to develop markets for recovered materials. In 2003 Act 33, the RMDB was repealed.

The RMDB awarded a cumulative total of \$26.6 million in financial assistance and included funds provided from the recycling fund and from repayments of previous loans. Of the \$26.6 million awarded by the Board, the largest use of funds was for the Board's recycling loan program. Almost \$13.1 million, or 49% of awarded funds, was approved for recycling loans. The RMDB also spent \$4.8 million on recycling rebates to manufacturers (18%) and funds on grants, technical assistance, research, administrative services and education.

Loan repayments received after the program ended in August of 2003 are deposited in the general fund. In the 2003-05 biennium, a total of \$2,036,300 in loan repayments was received as revenue to the general fund. In 2005-06, \$458,200 in loan repayments was received.

Waste Reduction and Recycling Grant Programs

DNR administers a recycling fund appropriation that includes two waste reduction and recycling programs that provide assistance for projects that reduce the amount of waste generated or disposed of. Prior to 2005-06, the appropriation was used solely for the waste reduction and recycling demonstration grant program. Beginning in 2005-06, the appropriation is also used for business waste reduction and recycling assistance. DNR may determine how much to allocate to each of the two purposes.

The appropriation had an unencumbered balance from prior year appropriations of \$204,400 on July 1, 2006, and is appropriated \$500,000 in 2006-07 from the recycling fund. In addition, 2005 Act 25 directed that \$1,200,000 from the balance of the appropriation be transferred to the general fund in 2005-06.

Waste Reduction and Recycling Demonstration Grants

The waste reduction and recycling demonstration grant program provides cost-share grants to municipalities, public entities, businesses and nonprofit organizations for projects which implement innovative waste reduction and recycling activities. DNR is also authorized to issue requests for proposals for projects that include waste reduction and recycling activities eligible for funding under this program. Projects funded under a request for proposal do not have to be innovative. DNR requests for proposals may also emphasize communitywide waste reduction efforts. Positions allocated to DNR for the municipal and county recycling grants program also manage the waste reduction and recycling demonstration grant program.

DNR is directed to consider the following criteria when deciding eligibility and determining the amount of the demonstration grant: (a) the weight or volume of solid waste to be diverted from disposal; (b) the types of waste reduction and recycling activities to be implemented; (c) existing waste reduction and recycling activities; (d) existing and anticipated solid waste management needs; (e) the value of implementation of the waste reduction or recycling activities as a demonstration project; and (f) the implementation of innovative technologies, including the application or implementation of innovative technologies in a project which employs a proven technology. A grant may not exceed 50% of the project's actual eligible costs, or 75% of the actual eligible costs of a community-wide waste reduction project, or \$150,000, whichever is less.

In the 1997-99 biennium, DNR was directed to provide the following grants, in addition to regular program grants: (a) \$100,000 to the Wheelchair Recycling Project for refurbishing used wheelchairs and other mobility devices and returning them to use by persons who otherwise would not have access to needed or appropriate equipment; and (b) \$409,800 to the Department of Corrections for the purpose of refurbishing and recycling used computers. In the 1999-01 biennium, DNR was directed to provide additional grants to the Wheelchair Recycling Project totaling \$175,000 in 1999-00 and \$150,000 in 2000-01.

For grant cycles since 1995, DNR has requested proposals to target several areas, including: increasing recycling of construction and demolition debris; (b) expanding appropriate recycling of special wastes and problem materials such as food waste, computers and other consumer electronics, thermostats, switches, lamps and other materials containing mercury, paint, textiles, carpeting and books; (c) establishing local partnerships to reduce and/or reuse solid waste generated at area industries, institutions and retail and commercial businesses; (d) developing and implementing community-wide waste reduction programs that reduce the amount of waste being produced, reduce the amount of materials used in manufacturing or extend the life of materials; and (e) implementing systems by product manufacturers and/or retailers to accept return of used consumer products and/or packaging for reuse or recycling. The amount awarded for demonstration grants under a request for proposals may not exceed 50% of the total amount available for demonstration grants in that fiscal biennium.

DNR may not award grants to any applicant that cumulatively total more than \$250,000. DNR has made 187 program grants totaling \$112.8 million. DNR requested proposals in grant cycles beginning in 1997. Table 15 lists the funded recycling demonstration projects by the category of project from 1991 through December, 2006. The largest categories of grant projects are plastic, with \$2.0 million in grants, representing 15.7% of grant awards, and industrial wastes with \$1.9 million in grants, representing 15.0% of grant awards. Other, or miscellaneous category grants, totaled \$2.2 million, representing 16.8% of grant awards.

For the 2006-07 grant cycle, DNR accepted applications in August, 2006. DNR awarded \$499,200 to six grantees in November of 2006.

Business Waste Reduction and Recycling Assistance

In 2005 Act 25, DNR was authorized to use the waste reduction and recycling appropriation to contract with a nonprofit organization for services to assist businesses to reduce the amount of solid waste generated or to reuse or recycle solid waste.

In 2005-06, DNR awarded one grant under the provision, in the amount of \$24,500, to develop recommendations that DNR can use to work with responsible units of local government to increase recycling by businesses.

In 2006-07, DNR issued a request for proposals, for a total amount not to exceed \$155,000, for projects which substantially increase business waste reduction and recycling in the areas of construction and demolition materials and organic materials. The proposals were due in November, 2006. DNR requested the following three types of proposals: (a) \$75,000 for assistance in recycling organic materials; (b) \$50,000 for assistance in recycling organic or construction and demolition materials; and (c) \$25,000 for assistance in recycling organic or construction and demolition materials. In December, 2006, DNR was in the process of reviewing seven proposals.

Table 15: Waste Reduction and RecyclingDemonstration Grant Awards as of December,2006

Category	Projects	Funding	Percent of Funding
Plastic	21	\$2,015,545	15.7%
Construction			
and Demolition	29	1,963,414	15.3
Industrial Waste	29	1,926,255	15.0
Paper	17	1,379,564	10.8
Collection and			
Marketing Efficiency	24	827,657	6.5
Hazardous Waste	12	650,556	5.1
Composting	9	551,465	4.3
Food and Other Organi	cs 8	493,560	3.9
Waste Reduction	9	436,376	3.4
Glass	6	406,835	3.2
Other Wastes *	23	2,145,346	<u>16.8</u>
TOTAL	187	\$12,796,573	100.0%

* Some examples of other wastes are textiles, computers, electronics, oil filters, wheelchairs, nonrecyclable paper or plastic, and medical waste.

Segregated Recycling Fund

The majority of state solid waste recycling and waste reduction programs are funded from the segregated recycling fund, which is a separate, nonlapsable trust fund created in 1989. This fund receives revenues from a recycling surcharge established in 1991 and a recycling tipping fee effective January 1, 2000.

Table 16 shows actual revenues and expenditures for the recycling fund for 2005-06 and estimated figures for 2006-07. An unappropriated balance of approximately \$2.9 million can be expected on June 30, 2007. Revenues to the recycling fund totaled \$43.4 million in 2005-06 and expenditures totaled \$30.5 million. In 2006-07, revenues are expected to total \$42.1 million and appropriations total \$30.7 million. For a complete listing of individual appropriations from the segregated recycling fund, see Appendix I.

In 1991-92 through 2006-07, a total of \$109.4

Revenues	2005-06 Actual	2006-07 Estimated
Opening Balance July 1	\$12.5	\$3.0
Recycling Surcharge Recycling Tipping Fee Interest Income and Other Total Revenue	19.5 23.2 <u>0.7</u> \$43.4	18.8 23.1 <u>0.2</u> \$42.1
Total Available	\$55.9	\$45.1
Program Expenditures Encumbrances and Continuing Balances	-\$30.5 0.0	-30.7 -0.5
Transfer to the General Fund And Conservation Fund Required by 2005 Act 25		-0.5 <u>-11.0</u>
Closing Balance June 30	\$3.0	\$2.9

Table 16: Recycling Fund Condition – 2005-07 (\$ in Millions)

million has been transferred from the recycling fund, including \$105.1 million to the general fund, and \$4.3 million to the conservation fund. In 1990-91, the first year of existence of the recycling fund, \$29.7 million was transferred from the general fund to the recycling fund to provide funds for municipal and county recycling grants before recycling surcharge revenue was received. The amount transferred by year is shown in Table 17.

Appendix II shows the cumulative recycling fund revenues and expenditures from 1990-91 through 2005-06 (including year-end encumbrances in 2005-06). Of the \$612.6 million in recycling fund revenues during the 16 years, the recycling surcharge provided \$461.8 million, or 75.4% of the total revenue. Recycling fund expenditures during 1990-91 through 2005-06 have totaled \$609.6 million. The largest cumulative expenditure category is the DNR municipal and county recycling grant program with \$396.3 million, or 65.0% of total expenditures. The recycling efficiency incentive grant program that was created effective 2002-03, had \$7.6 million of expenditures, or 1.2% of total cumulative expenditures. The two local recycling grant programs had combined total expenditures

Table 17: Transfers To and From the Recycling Fund

	From Recycling Fund to General	From Recycling Fund to Conservation	Total Transfer From Recycling
Fiscal Year		Fund	Fund
1991-92	\$4,750,000	S 0	\$4,750,000
1992-93	0	0	0
1993-94	0	ů 0	0
1994-95	0	ů 0	0
1995-96	21,100,000	ů 0	21,100,000
1996-97	0	ů 0	0
1997-98	3,850,000	0	3,850,000
1998-99	0	0	0
1999-00	15,000,000	0	15,000,000
2000-01	7,000,000	0	7,000,000
2001-02	7,100	0	7,100
2002-03	9,119,900	1,000,000	10,119,900
2003-04	7,273,900	0	7,273,900
2004-05	6,893,000	0	6,893,000
2005-06	19,142,100	3,255,100	22,397,200
2006-07	11,000,000	0	11,000,000
Total	\$105,136,000	\$4,255,100	\$109,391,100
General Fu	und		
Transfer Fund (19	to Recycling 990-91)		<u>- \$29,700,000</u>
Net Transf Recyclin			\$79,691,100

of \$403.9 million, which was 66.2% of total expenditures as of 2005-06.

The second largest amount of expenditures as of 2005-06 was from transfers to the general fund and conservation fund in several years, with a total of \$98.4 million transferred, or 16.1% of expenditures. Table 17 shows the amounts transferred from the recycling fund in each year. Table 17 includes the \$98.4 million transferred as of 2005-06, plus \$11.0 million transferred in 2006-07 (and not included in Appendix II). Under 2005 Act 25, \$19,142,100 was transferred to the general fund and \$3,255,100 was transferred to the conservation fund in 2005-06 and \$11,000,000 is transferred from the recycling fund to the general fund in 2006-07. Recycling market development financial assistance programs administered by the Department of Development prior to June 30, 1995, and the Recycling Market Development Board through June 30, 2003, included \$36.9 million in expenditures, or 6.0% of total expenditures.

Recycling Surcharge

The state recycling surcharge was first imposed on businesses for tax years ending after April 1, 1991, and it remained in effect until April, 1999. From tax year 1991 until tax year 1997, the surcharge was equal to 5.5% of the gross tax liability of corporations. For tax year 1998, the surcharge rate was reduced to 2.75% of the gross tax liability of corporations. There was a minimum payment of \$25 and a maximum payment of \$9,800. Corporations (including S corporations) with less than \$4,000 in total receipts were excluded from the recycling surcharge.

Nonfarm sole proprietorships, partnerships, liability companies (LLCs) limited and S corporations were also subject to a recycling surcharge of 0.4345% of net business income from tax year 1991 to tax year 1997. The rate was reduced to 0.2173%, beginning in tax year 1998. The minimum payment was \$25 and the maximum \$9,800. Members of the clergy was and noncorporate farms with less than \$1,000 of net farm profits were also exempt from the surcharge. Noncorporate farms that were subject to the surcharge paid a flat amount of \$25. The rates of 0.4345% and then 0.2173% that applied to the net income sole proprietorships, business of partnerships, S corporations and LLCs taxed as partnerships were equivalent to the 5.5% and 2.75% rates, respectively, that applied to the gross tax liability of corporations. For corporations, gross tax liability is determined by applying the corporate tax rate of 7.9% to net income. When the corporate tax rate of 7.9% is multiplied by the

surcharge rates of 5.5% and 2.75%, the resulting tax rates are 0.4345% and 0.2173%, respectively.

The recycling surcharge was eliminated for all businesses beginning with tax years ending after April, 1999. Consequently, taxpayers were generally not subject to the recycling surcharge for tax year 1999. However, 1999 Wisconsin Act 9 created a recycling surcharge on businesses, beginning in tax year 2000. The recycling surcharge is 3% of gross tax liability for corporations or 0.2% of net business income for nonfarm sole proprietorships, partnerships, limited liability companies taxable as partnerships and S corporations. There is a minimum payment of \$25 and a maximum payment of \$9,800. Farms and other businesses with less than \$4,000,000 in gross receipts are excluded from paying the surcharge. Noncorporate farms (sole proprietorships, LLCs taxable as partnerships and partnerships) with gross receipts in excess of \$4,000,000 pay the \$25 minimum payment. Farms organized as regular C and S corporations that are subject to the surcharge determine surcharge liabilities in the same manner as C and S corporations.

The Department of Revenue is authorized to administer the surcharge under provisions governing administration of the individual and corporate income and franchise taxes, including provisions relating to audits and assessments, claims for refund, statutes of limitations, IRS adjustments, confidentiality, appeals, collections and set offs for debts owed other state agencies.

Table 18 shows annual recycling surcharge collections from 1991-92 through 2005-06. Total collections during this time period were \$461.8 million. Because amounts are periodically transferred between the general fund and recycling fund to reflect estimated surcharge payments, collections in individual fiscal years can vary from the tax liability for a given fiscal year.

The 1999-00 collections of \$9.6 million represent residual payments under the former surcharge in

Fiscal Year	Amount*
1991-92	\$32.1
1992-93	36.8
1993-94	47.7
1994-95	40.6
1995-96	41.6
1996-97	51.5
1997-98	53.6
1998-99	35.9
1999-00	9.6
2000-01	26.3
2001-02	12.5
2002-03	15.4
2003-04	25.5
2004-05	13.2
2005-06	<u> 19.5 </u>
Total	\$461.8

Table 18: Recycling Surcharge Collections(\$ in Millions)

* Due to transfers between the general fund and recycling fund to reflect estimated surcharge payments reported, collections for a fiscal year can vary from the surcharge tax liability for a given fiscal year.

tax years 1998 and earlier, and estimated payments under the new surcharge for tax year 2000. Table 18 shows a total of \$25.5 million in recycling surcharge collections for 2003-04. However, the 2003-04 revenue includes \$6.7 million in corporate income and franchise tax estimated payments that were included in 2003-04 recycling surcharge collections. This amount was returned to the general fund from recycling surcharge collections in 2004-05. As a result, actual recycling surcharge collections would have been \$18.8 million in 2003-04 and \$19.9 million in 2004-05 if DOR would have credited collections to the proper year.

Recycling Tipping Fee

In 1999 Wisconsin Act 9, a recycling tipping fee was created as a revenue source to the recycling

fund. The fee equaled 30¢ per ton on all solid waste except high-volume industrial waste disposed of in landfills in Wisconsin. The tipping fee is effective for waste disposed of in landfills on or after January 1, 2000 and is assessed quarterly. Waste, other than high-volume industrial waste, that is subject to other tipping fees that existed prior to enactment of 1999 Act 9, is subject to the recycling tipping fees, with a few exemptions.

In 2001 Wisconsin Act 16, the recycling tipping fee was increased from 30¢ to \$3 per ton, effective with waste disposed of on or after January 1, 2002. Further information about landfill tipping fees deposited in the environmental fund can be found in the Legislative Fiscal Bureau informational paper titled "Contaminated Land and Brownfields Cleanup Programs."

Solid waste is excluded from the recycling tipping fee if it is disposed of by a nonprofit organization that provides services and programs for people with disabilities or that primarily serves low-income persons and that derives a portion of its income from the operation of recycling and reuse programs, if that waste is not commingled with waste that is subject to the tipping fee. State recycling tipping fees paid by municipalities are exempt from the budget test under the expenditure restraint program.

2003 Wisconsin Act 33 exempted from the recycling tipping fee all sludges, river sediments, or dredged materials that contain **PCBs** (polychlorinated biphenyls) that are removed in connection with the remediation of contaminated sediments in a navigable water of the state, if the total quantity of the removed materials, either in an individual phase or in combination with other planned phases of remediation, will exceed 200,000 cubic yards. It can be anticipated that this exemption would apply to sediments dredged from the Fox River cleanup project, and potentially other large harbor contaminated sediment cleanups in the future. In calendar year 2005, a total of 75,680 tons of sediment from the Fox River cleanup project were disposed of in a Wisconsin landfill, and were exempt from the recycling tipping fee under the provision. It is likely that the annual amount will increase, and will continue for approximately 10 years.

2005 Wisconsin Act 25 exempted from the recycling tipping fee, waste material that is removed from recycled materials intended for use as recycled fiber by a person that makes paper, pulp, or paperboard from wastepaper, if the waste material can not be used to make paper, pulp, or paperboard. A total of 3,264 tons were exempt from the recycling tipping fee in calendar year 2005 under the provision.

Table 19 shows annual recycling tipping fee collections from 1999-00 through 2003-04. Total collections during this time period were \$50.7 million. The 2001-02 recycling tipping fee collections include three quarters of revenue at the former 30¢ per ton rate and one quarter of revenue at the \$3 per ton that went into effect on January 1, 2002. The 2002-03 revenue equals approximately four and one half quarters of annual revenue, due to the timing of fee assessments and collections during the fiscal year. Recycling tipping fee revenues are estimated at \$23.1 million in 2006-07 under the \$3 fee.

Table19:RecyclingTippingFeeCollections (\$ in Millions)

Fiscal Year	Amount
1999-00	\$0.4
2000-01	2.0
2001-02	6.0
2002-03	22.4
2003-04	19.9
2004-05	23.7
2005-06	23.2
Total	\$97.6

CHAPTER 3

OTHER RECYCLING ACTIVITIES

Council on Recycling

The Council on Recycling was created in 1989 as a part-time advisory body appointed by the Governor to promote the efficient and prompt implementation of state programs relating to solid waste reduction, recovery and recycling and to advise and assist state and local agencies in the coordination of these programs and the exchange of information related to these activities. There are seven Council members serving business, government and the public-at-large. Each member serves a four-year term. The Council is staffed by DNR.

In addition to the general functions, the Council is directed to: (a) advise state agencies concerning the promulgation of administrative rules related to solid waste reduction, recovery and recycling; (b) advise DNR and the University of Wisconsin system concerning educational efforts and research related to these activities; (c) in cooperation with the packaging industry, recommend standards for recyclable packaging; (d) develop recommendations, advise and assist local officials and the automotive service industry to promote the recycling of used oil filters; (e) advise DNR concerning the development of a statewide plan for public service announcements that would provide information about recycling programs and the benefits of recycling; and (f) advise the Governor and the Legislature.

During 2005 and 2006, the Council worked on the following activities: (a) maintained contact with state agencies involved in recycling, including the DNR, Department of Commerce, UW – Extension, and Department of Corrections; (b) testified on proposed state legislation related to recycling of computers, televisions, and other electronics (it did not pass); (c) convened a task force to discuss the issue of paper adhesives, such as "stickies" or paper with glue, labels, and tape; (d) continued to review issues related to recycling of electronics; (e) continued to support legislation related to used oil filter recycling; (f) submitted recommendations on mercury in products to the Governor, state agencies, and the Legislature in July, 2006; (g) reviewed proposed DNR administrative rules related to recycling; (h) reviewed the status of paper recycling; and (i) provided a forum for the discussion of issues affecting recycling programs in the state.

DNR Recycling Staff

In 2006-07, DNR is authorized 19.9 positions from the segregated recycling fund for work on various recycling activities. This includes the following.

1. DNR performs the policy development, administrative, planning, evaluation, markets directory and data management functions through the work of 12.0 recycling fund positions in the Bureau of Waste Management in the Air and Waste Division in the central office and by staff in five regional offices. Regional staff provide technical assistance and outreach to local governments on recycling, track and enforce compliance with conditions of approved effective recycling programs, and process applications for the municipal and county grant program. 2. The Bureau of Cooperative Environmental Assistance in the Air and Waste Division is authorized 1.0 recycling fund business sector specialist to work with businesses to manage improved performance in business recycling.

3. The informational and educational functions are performed by the Division of Customer and Employee Services with 2.0 SEG recycling fund positions.

4. Administration of the recycling grant programs is performed by 2.0 recycling fund positions in the Bureau of Community Financial Assistance in the Division of Customer and Employee Services.

5. Recycling enforcement activities are performed by 2.4 recycling fund positions in the Division of Enforcement.

6. DNR also has accounting, purchasing and other financial management recycling-related responsibilities that are performed by 0.5 recycling fund position.

DNR Education and Technical Assistance Responsibilities

Duties

DNR is responsible for providing technical assistance and comprehensive public information. DNR is required to provide technical assistance to individuals, groups, businesses, state agencies, counties and municipalities in all aspects of recycling, with an emphasis on documents and material that is easy to read and understand by the general public. This includes: (a) providing information about how to perform a study related to the composition of solid waste; (b) maintaining current estimates of the amount of components of solid waste generated by categories of businesses, industries, municipalities and other governmental entities; (c) providing information about how to manage solid waste consistent with the state's solid waste management priorities; and (d) providing technical assistance to local recycling programs.

The Department is required to collect, prepare disseminate information, and conduct and educational and training programs that assist in the implementation of the solid waste management programs. The educational programs must inform the public of the relationship between an individual's consumption of goods and services, the generation of different types and quantities of solid waste and the implementation of the solid waste management priorities. DNR is also required to prepare educational programs on a statewide basis for the following audiences: (a) municipal, county and state officials and employees; (b) kindergarten through graduate students and teachers; (c) private solid waste scrap brokers, dealers and processors; (d) businesses that use or could use recycled materials or which produce or could produce products from recycled materials and persons who serve or support these businesses; and (e) the general public.

Activities

DNR accomplishes its technical assistance, informational and educational responsibilities by establishing project work groups from various bureaus in DNR. In 2005-07, DNR worked with local and state elected officials and employees, students ranging in age from kindergarten to graduate students, teachers, solid waste brokers, dealers, processors and haulers, businesses that use or make products from recycled materials, other businesses, and the general public. DNR focused on several activities that are listed below.

1. Prepared, updated and provided fact sheets, newsletters, and publications related to general recycling issues.

2. Maintained and improved Internet web sites for general audiences and youth for access to a variety of recycling materials and resources.

3. Updated the Wisconsin Recycling Markets Directory and maintained it as a searchable Internet web directory.

4. Provided communication and education tools and resources to responsible units for distribution to their residents, businesses, and institutions.

5. Maintained and promoted an internetbased green and healthy school program in partnership with the Wisconsin Department of Public Instruction.

6. Continued a campaign focusing on recycling away from home. The campaign included radio and newspaper ads for local distribution.

7. Began working with interested persons on issues related to business recycling.

8. Worked with groups of stakeholders to finalize revisions to existing administrative rules related to recycling.

9. Worked on a promotional outreach initiative that would make a connection between recycling and Wisconsin's economy, including: (a) publication of an article in the Natural Resources Magazine about recycling; (b) production of a short video; and (c) production of a publication "Wisconsin Recycling Means Business."

Municipal Solid Waste Studies

In 1990, 1995, and 2000, DNR contracted with Franklin Associates, Ltd., to conduct waste characterization studies. In 2002, DNR contracted with Cascadia Consulting to conduct a municipal solid waste composition and quantification study. The Franklin studies produced estimates for the quantities of residential and commercial municipal solid waste that is generated, recycled, landfilled, and combusted in Wisconsin. The Cascadia study produced an estimate of the quantity of municipal solid waste that is landfilled, based on taking 400 samples from 14 landfills.

DNR used the study data to analyze how successful local recycling programs have been both in diverting banned materials from landfills and in determining the average amounts and ranges of recyclable materials found in the waste stream, and diverted from landfills. DNR estimates of the recycling rates for several materials banned from Wisconsin landfills are shown in Table 20. As DNR analyzed the study data, the Department also estimated an overall landfill diversion rate, which factored recycling, plus combustion of solid waste with energy recovery, plus yard waste managed at home. The estimated landfill diversion rate was 40.4%. DNR has not updated the studies to reflect data since 2002.

Table 20: DNR's Estimates of the Recycling Rate for Materials Banned from Wisconsin Landfills (Based on Data from 2000 and 2002)

Material	Estimated Recycling Rate		
Lead acid batteries, maj	or		
appliances and tires	over 95%		
Yard waste	78%		
Corrugated cardboard	72%		
Newspaper	67%		
Glass containers	57-74%		
Aluminum and steel ca	ns approx. 55%		
Plastic containers	41-51%		
Magazines	31-35%		
Office paper	28-57%		
Overall average landfill	l		
diversion rate *	40.4%		

* The DNR estimate includes recycling, plus combustion with energy recovery, plus yard waste managed at home.

Other DNR Activities

Newspaper Recycled Content Target and Fee

Current law requires printers and publishers of newspapers and some shopper guides to use newsprint that averages a mandated level of postconsumer recycled content. Table 21 shows the established targets for the percentage of recycled newsprint used by printers and publishers. 2003 Act 106 modified the annual percentage targets so that in all years beginning in 1998, the target percentage is 33%. Prior to the change in law, the percentage for 2001 and 2002 was 37% and the percentage for 2003 and subsequent years was 40%.

Table 21: Target Newspaper RecycledContent Percentages

Target Year	Percentage	
1992 and 1993	10%	
1994 and 1995	25%	
1996 and 1997	35%	
1998 and thereafter	33%	

A newspaper recycling fee is assessed annually to the publisher of a newspaper that fails to meet the recycled content targets. Administrative rule NR 546 implements this provision. The amount of the newspaper recycling fee imposed on a publisher in any calendar year that the target is not met is 1% of the total cost of the newsprint used during the year multiplied by the recycling status factor, which is the target recycled content percentage minus the average recycled content percentage of the newsprint actually used.

The newspaper recycling fee does not apply to a publisher of a newspaper if: (a) the publisher documents that he or she is unable to obtain sufficient recycled content newsprint; and (b) the newspaper has a circulation of less than 20,000, the publisher requests an exemption, and DNR determines that compliance with the target recycled content requirement would create a financial hardship for the publisher. Prior to January 1, 2001, DNR was required to exempt every publisher that met or exceeded 30% recycled content for the year (this provision does not apply after December 31, 2000).

Printers and publishers reported compliance with the requirements of the newspaper recycled content requirement as shown in Table 22. Fees totaling \$48,885 have been paid for 1992 through 2005. The fees are deposited in the recycling fund.

Table 22: Compliance of Printers and Publishers with the Newspaper Recycled Content Requirement

Year	Exceeded or Met Requirements	Did Not Meet Requirements	Exemptions Granted	Fees Paid	Average Recycled Content
1992	69	2		\$353	23.4%
1993	78	0		0	28.9
1994	62	14		2,847	31.0
1995	48	26	21	610	27.3
1996	43	28	8	27,487	32.9
1997	58	14	9	1,323	37.6
1998	63	9	9	2,750	41.9
1999	55	10	2	696	42.6
2000	59	5	0	567	45.5
2001	45	13	1	8,887	42.9
2002	58	10	0	596	41.8
2003	55	4	0	39	47.1
2004	48	7	3	1,204	41.3
2005	49	5	3	1,526	42.8

For 2005, of the 57 printers and publishers that reported their use of recycled content newsprint, 49 met or exceeded the requirements, five (9%) did not meet the mandated 33% post-consumer recycled content requirement and paid the fee, and three were granted an exemption.

Waste Oil Collection and Recycling

Any business that sells automotive engine oil to consumers is required to either: (a) maintain an engine waste oil collection facility for the temporary storage of oil returned by consumers and post a sign to that effect; or (b) post at least one sign indicating the location and hours of operation of the nearest DNR-approved waste oil storage facility. If adequate approved waste oil storage facilities do not otherwise exist, local governments are required to provide these facilities. Anyone operating a facility for the recycling of engine waste oil must obtain a license and comply with all applicable requirements and regulations. Recycled waste oil must be clearly labeled "re-refined oil" or "reclaimed oil," depending upon the method of recycling.

DNR is required to conduct public information and educational programs regarding the availability of collection facilities, the merits of recycled oil, the need for using recycled oil to maintain oil reserves and the need to minimize the disposal of waste oil in ways harmful to the environment.

Battery Collection and Disposal

Retail sellers of lead acid (automotive-type) batteries are required to accept a used battery in exchange for each battery sold. If the retailer does not install the new battery and the customer returns the used battery at a later time, the retailer may require the customer to provide proof that the customer purchased a battery from the retailer. In addition, the retailer may charge a refundable deposit of up to \$5 on the sale of a battery. Retailers are required to accept used batteries when the consumer has not purchased a new battery from the retailer. Under these circumstances, a retailer may charge up to \$3 for each accepted battery and may refuse to accept more than two batteries in one day from any person. DNR is responsible for enforcement of the provisions.

Recycling of Other Materials

DNR works with local governments and

businesses on mercury reduction programs. DNR provides information to the public about ways to collect and recycle mercury in homes (thermostats and thermometers), dental offices, school science laboratories, dairy farms (thermometers), auto salvage businesses, and hospitals. DNR staff also perform outreach and education activities related to recycling of fluorescent light bulbs.

other U.S. Wisconsin, six states. the Environmental Protection Agency, and carpet industry representatives signed a memorandum of understanding in January, 2002, to promote carpet recycling. DNR staff work with businesses and municipalities to identify opportunities to promote recycling of used carpet. DNR also worked with the Wisconsin Department of Administration to develop a new state purchasing contract for carpet that would provide an opportunity for state agencies and local governments to purchase carpets and padding that are made from recycled materials and to reclaim old carpet being discarded.

In 2005 and 2006, DNR worked with the state environmental agencies in Minnesota, Iowa, Michigan and Illinois, and with EPA, to develop a policy for the management of waste electronics. In May, 2006, the agencies announced agreement of a Midwest E-waste Policy Development Initiative, which supports the principles of encouraging manufacturers to collect, transport and recycle waste electronics. Products included in the policy include televisions, computer monitors and computer components.

University of Wisconsin System Activities

Solid Waste Experiment Centers and Solid Waste Research Council

In 1989, the UW Board of Regents was

authorized to establish one or more solid waste experiment centers for the purpose of developing, demonstrating, promoting and assessing the costs and environmental effects of alternatives to solid waste disposal. In addition, The UW System was directed to conduct research into alternatives to solid waste disposal and the safe disposal of solid waste that cannot be recycled or composted. The Board was directed to appoint a Solid Waste Research Council to advise it regarding the awarding of solid waste research funds.

Prior to 1997-98, the UW System had allocated GPR funding and position authority for these purposes. However, 1997 Act 27 converted this funding to segregated monies from the recycling fund. The program currently is utilized to provide funding to UW System institutions for research into alternative methods for the disposal of solid waste. Under 2005 Act 25, \$155,100 SEG annually from the recycling fund was provided to the UW System for solid waste research and experiments with \$37,100 budgeted for a one-half time program manager position, and \$118,000 budgeted for Solid Waste Research Council research award funds.

The Solid Waste Research Council currently has eight members representing seven UW campuses, UW-Extension and the UW System. Annually, the Council solicits proposals that investigate alternative methods of solid waste management, including reduction of the amount of solid waste generated, the reuse and recycling of materials, composting, source separation and the disposal of household hazardous waste. Proposals are also sought for research into the development of products made from recycled materials and markets for those products. For 2005-06, seven recipients were awarded a total of \$118,000, including \$6,450 for four undergraduate research projects.

UW-Extension Solid and Hazardous Waste Education Center

The University of Wisconsin-Extension Solid and Hazardous Waste Education Center (SHWEC) with branches at UW-Madison, UW-Stevens Point, UW-Green Bay and UW-Milwaukee, was created in 1989. Positions within UW-Extension are authorized to provide statewide information on hazardous pollution prevention and to provide educational and technical assistance related to recycling. The Center also provides information on waste reduction; produces written materials, educational teleconference network programs, satellite conferences and video productions; and offers technical assistance to local governments and businesses on recycling, hazardous waste management, energy conservation, the use of renewable energy, pollution prevention, source reduction and other cost effective waste reduction programs. SHWEC staff conduct workshops through the recycling program, and have developed web-based resources to address recycling and solid waste management needs as well as for other outreach priorities such as pollution prevention and waste reduction. (The Center's hazardous waste management, energy conservation, renewable energy, and pollution prevention programs are not described in this paper.)

To carry out its programs, SHWEC receives funding from various sources. The Center is appropriated \$336,900 SEG from the recycling fund in 2006-07 for education and technical assistance in recycling and recycling market development. This funding supports 4.0 positions at three SHWEC locations including: (1) UW-Stevens Point - 1.0 commercial/industrial recycling waste reduction specialist; (2) UW-Extension Madison - 1.0 community and business recycling specialist, 1.0 recycling and source reduction specialist, and 0.5 program assistant (the program assistant supports the work of all three center offices); and (3) UW-Green Bay - 0.5 solid waste and recycling research.

In 2006-07, the UW-Extension has also internally allocated approximately \$113,000 GPR and \$46,500 program revenue and federal funds for SHWEC to support 1.0 faculty position and 1.0 project assistant in UW-Madison's College of Engineering.

In 2006-07, SHWEC received \$100,000 from various grants, contracts and revenue sources. This funding is used to provide technical assistance to industries, businesses, health care facilities, recyclers and other relevant entities to identify source reduction opportunities, methods to make products and packaging recyclable, appropriate recycling technologies, and the feasibility of using recyclable materials to manufacture other products.

Department of Administration Responsibilities

The Department of Administration (DOA) is establishing responsible for commodity procurement and disposal guidelines relating to recycled materials. The Department is charged with: (a) developing commodity specifications for certain materials made from recycled and recovered wastes; (b) encouraging the adoption of procurement preferences for commodities that with such specifications; comply and (c) establishing solid waste separation and recycling procedures. These guidelines are applicable to state agencies and authorities (other than the UW Hospitals and Clinics Authority). Local units of government are encouraged to utilize DOA procurement services for the purchase of recycled and recovered materials and to participate in the state's solid waste separation and recycling program.

In general, the statewide recycling law attempts leverage state and local government to procurement funding to encourage market development for recycled materials. Since state and local governments collectively constitute one of the largest purchasers of goods in Wisconsin, procurement guidelines that favor the use of recycled materials are thought to create stable markets for goods made from these materials. In turn, the development of stable markets should serve to lower the economic risks faced by

manufacturers of commodities made from recycled and recovered materials.

DOA and other state agencies and authorities with delegated purchasing authority are required to write commodity specifications that incorporate requirements for the procurement of products made from recycled materials and recovered materials, if the use of such materials is technologically and economically feasible. The law covers the purchase of paper and paper products, plastic and plastic products, glass and glass products, motor oil and lubricants, construction materials, furnishings and highway equipment. Specifications must consider, where practicable, recyclability and the ultimate disposition of purchased goods. Purchasing specifications must discourage the purchase of single-use products in favor of multiple-use, durable products.

Where practicable, DOA, agencies with delegated purchasing authority, state authorities, and participating local units of government are required to make purchases that: (a) are from a bidder who has the lowest life cycle cost when such factors as product manufacture and disposal are considered; (b) utilize the commodity specifications for certain products made from recycled and recovered materials; and (c) include, for paper purchases, material with an aggregate recycled or recovered content of fiber, by weight, of not less than 40%.

Finally, DOA operates a program for state agencies and authorities that requires them to separate for recycling, all materials subject to landfilling and incineration bans. These bans are described in Chapter 1.

Department of Transportation Activities

The Department of Transportation (DOT) is required to use or encourage the use of the maximum possible amount of recovered materials in construction projects.

DOT indicates that it is complying with this requirement by developing technical standards for the use of various materials in construction and encouraging contractors to use these materials when possible. The Department does not generally require contractors to use recovered materials, but indicates that they are used if the contractor finds that their use would be economical. Some materials that have been used in projects include fly ash, paper mill ash, foundry sand, steel slag, glass, tires, pottery cull, and bottom ash. These materials are commonly used as fill for embankments or are blended with traditional materials to reduce the amount of those materials needed for the roadway base course.

In addition to the use of the recovered materials mentioned above, which are largely waste products from industrial activities, highway construction projects commonly reuse old paving material as the crushed aggregate for use in the base course of the new roadway. The Department's technical standards for the use of materials recovered from off site also include standards for the onsite recovery of old pavement materials.

Department of Agriculture, Trade and Consumer Protection Activities

The Department of Agriculture, Trade and Consumer Protection (DATCP) administers requirements related to labeling for plastic containers, recycled content of plastic containers, heavy metals content in packaging, truth in labeling and battery collection and disposal. DATCP estimates that it is using less than 0.1 FTE to administer these provisions, and most of its efforts are focused on issues of product compliance with these requirements. In addition, DATCP also administers the state's clean sweep program, which funds the collection and disposal of hazardous materials and is funded from the recycling fund.

Plastic Container Labeling

Administrative rule ATCP 137 establishes labeling requirements for plastic containers, which provide information needed by operators of materials recovery programs to facilitate recycling or reuse of the containers. Each container is required to be labeled with a number and initials based on its composition. DATCP is authorized to grant a variance from the labeling requirements for containers for which labeling is not technologically possible. The variance is for up to one year and is renewable. Blister packs, which are defined as containers with a rigid backing to which a plastic film or preformed semirigid plastic covering is affixed, are exempt from labeling requirements. DATCP has not received any requests for variances to the labeling requirement. Occasionally the Department does receive requests for letters of non-objection for containers because of plastic resin content, and DATCP has issued such letters if the product is compatible with recycling streams.

Plastic Container Recycled Content

State law requires that plastic containers used for products sold at retail consist of at least 10% recycled or remanufactured material. This applies to containers required to be labeled under state law for plastic resin composition. It does not apply to containers for food, beverages or drugs unless the federal Food and Drug Administration has approved the specific use of recycled or remanufactured material. In a 1996 survey of manufacturers, DATCP found reasonable industry acceptance of current minimum recycled content requirements, but also encountered instances of noncompliance due to costs and poor container integrity for certain product contents, such as hazardous substances.

Heavy Metals Content in Packaging

The law directs that with a few exceptions, "a

manufacturer or distributor may not sell a package, packaging material or packaging component with a total concentration of lead, cadmium, mercury plus hexavalent chromium" that exceeds 100 parts per million. A violation of these provisions is subject to a forfeiture of up to \$200. A 1993 DATCP report found most packaging materials being used and sold in the state are in compliance with the statute. Exceptions included some cans using solder, certain labeling inks and enamels and specialized packaging such as lead wrapping for photographic film. In 2004, DATCP received two complaints related to mercury content of certain button cell batteries, but concluded after an investigation that the batteries were in compliance with current state and federal law. In 2005, DATCP received no complaints related to heavy metals content in packaging.

Truth in Labeling

Administrative rule ATCP 137 sets standards on the content of products represented as "recycled," "recyclable" or "degradable" and establishes that no person may label or represent any product in violation of these standards. The standards are intended to be consistent, to the greatest extent practicable, with nationwide industry consensus standards. Any person who labels or represents a product in violation of these standards is subject to a forfeiture of not less than \$100 nor more than \$10,000 for each violation. In 2003, DATCP received one complaint of improper labeling, which was related to improper resin labeling of plastic containers that resulted in a written assurance of corrective action from the manufacturer. In 2005, DATCP received five complaints of improper labeling, which were related to recycled content in envelopes, the proper recycling number code on plastic containers, and inquiries on plastic content.

Battery Collection and Disposal

1993 Act 74 established collection and disposal regulations for certain batteries containing

mercury. DATCP maintains a list of certified batteries. No person may sell a zinc carbon battery that is manufactured after July 1, 1994, or an alkaline manganese battery that is manufactured after January 1, 1996, unless the manufacturer has certified to DATCP that the battery contains no mercury that was intentionally introduced. No person may sell an alkaline manganese button cell battery that is manufacturer has certified to DATCP that the battery contains no more than 25 milligrams of mercury.

Waste mercuric oxide batteries, other than mercuric oxide button cell batteries, may not be treated, stored or disposed of except at approved collection sites. An operator of an approved collection site must recycle all collected waste mercuric oxide batteries unless no reasonable alternative exists. No person may sell a mercuric oxide, other than a mercuric oxide button cell battery, unless the manufacturer does all of the following: (a) identifies an approved collection site to which people may take used mercuric oxide batteries for recycling or proper disposal; (b) informs all purchasers of the battery of the collection site and the prohibition on disposal; (c) informs all purchasers of a telephone number that may be called to obtain information about returning the batteries for recycling or proper disposal; and (d) informs DATCP and DNR of the collection site and telephone number. DNR has general enforcement authority over the disposal and recycling provisions.

Clean Sweep Program

In 2003 Act 33, funding for DATCP's agricultural chemical and pesticide collection ("clean sweep") program and DNR's household clean sweep grant program was consolidated under the recycling fund and DATCP was directed to administer the combined programs. The program provides grants to counties and municipalities for the collection of pesticides, farm chemicals, and household hazardous wastes from farmers, businesses, households, schools and government agencies. DATCP revised administrative rule ATCP 34 to administer the new combined program, effective for calendar year 2005 clean sweep grants.

For 2007 grants, counties and municipalities must offer a minimum match of 25% of the clean sweep grant, where matching costs include cash or services. While there is no maximum grant award set in statue or administrative code, DATCP determines the maximum grant internally each grant cycle in an attempt to provide most eligible counties with some level of funding. The 2007 maximum grants are \$15,000 for a household waste temporary event (a clean sweep project that collects chemical waste on fewer than four days in a calendar year) and \$20,000 for a household waste permanent facility, and \$10,000 for an agricultural waste temporary event and \$13,000 for an agricultural waste permanent facility. In addition, based on its service area of Ashland, Bayfield, Burnett, Douglas, Iron, Price, Rusk, Sawyer, Taylor, and Washburn Counties and the tribal governments of the Bad River, Red Cliff, Lac du Flambeau, Lac Courte Oreilles, and St. Croix, DATCP has historically allowed a larger grant for the Northwest Regional Planning Commission. In 2005-06, this grant was \$31,400, and total clean sweep grants of \$731,400 were made for 28 events in calendar year 2005 (grants made in 2005-06 were for calendar year 2005 events). Subject to available funding, DATCP provides at least \$400,000 annually for agricultural chemical and container collection grants and at least \$200,000 annually for household waste collection grants. In 2006-07, \$710,400 is available for clean sweep grants. The Department estimates it will devote about \$110,000 and 1.5 positions for administration of its clean sweep responsibilities in 2006-07.

Grant recipients sign a contract with DATCP and are awarded their grants as reimbursements for eligible expenditures after the Department receives documentation of eligible expenses. Eligible grant expenditures include: (a) costs to hire a hazardous waste contractor; (b) costs for equipment rentals, supplies and services to operate the collection site and handle disposal; (c) county staff costs related to a permanent collection event; and (d) costs of local educational and promotional activities related to a project.

Grants may not be used to collect oil that is not contaminated, batteries, contaminated soil or debris, fluorescent tubes, triple-rinsed plastic pesticide containers, materials that may be disposed of at other waste or recycling sites, and chemicals for which there is no federally-approved or state-approved disposal method.

Commercial firms know as "very small quantity generators" are allowed to bring in hazardous wastes to agricultural clean sweep sites and dispose of it, provided they pay a 50% cost-share for the waste's disposal and register with the county or hazardous waste contractor. The county or contractor is required to keep records of the amount of waste collected from the generator, the total cost to collect and dispose of this waste, and the total amount of payments received from the generator. Very small quantity generators are firms that do not produce more than 100 kilograms (220 pounds) of hazardous waste in any given month, and that do not accumulate quantities of more than 1,000 kilograms (2,205 pounds) of hazardous waste.

Prior to 2003 Act 33, the agricultural clean sweep program was provided \$560,400 SEG in funding annually from the agrichemical management (ACM) fund. The ACM fund collects revenue from a variety of fertilizer, pesticide and commercial feed fees and funds: (a) DATCP's administration of the agricultural cleanup grant program and inspection and regulation of the individuals and businesses that manufacture and distribute feed, fertilizer and pesticide products in administration Wisconsin; (b) DATCP of groundwater management programs; and (c) agriculture in the classroom program grants that help teachers educate students about agriculture.

DNR's household clean sweep program was funded by \$150,000 SEG annually from the

2003. environmental fund prior to The environmental fund receives revenues from a variety of sources including a temporary motor vehicle environmental impact title fee, solid waste tonnage fees, pesticide fees, petroleum inspection fees and hazardous spills reimbursements from responsible parties. These fees are used primarily for Department of Commerce brownfields grants, and DNR activities related to environmental response and repair programs, including enforcement, prevention, cleanup, brownfields grants, liability determinations, and groundwater management.

Department of Commerce Activities

Recycling Space in Public Buildings

The Safety and Buildings Division in the Department of Commerce administers a provision in the state commercial building code to require that any person engaged in constructing or remodeling a public building provide adequate space in or adjacent to, the building for the separation, temporary storage and collection of materials subject to the 1995 landfill and incineration bans. This requirement applies to the building following types of projects: (a) constructing a public building; (b) increasing the size of a public building by 50% or more; or (c) altering 50% or more of the existing area of a public building which is 10,000 square feet or more in area.

Disposal of Oil-Absorbent Materials

In 2003 Act 96, the Department of Commerce was directed to convene a 12-member committee to study the disposal of oil-absorbent materials and submit recommendations based on its work to the Legislature and Governor by January 1, 2006. The committee was directed to do all of the following: (a) gather data that provides Wisconsin annual information concerning the number of oil filters used and recycled and the amount of oil-absorbent material disposed of, recycled or recovered; (b) establish percentage goals for recycling used oil filters and for recycling or recovering other oilabsorbent materials that are enough higher than current practice to make a significant difference but are attainable with current technology; (c) set a deadline for meeting the recycling goals; and (d) suggest measures to be taken if the recycling goals are not met and dates for taking those measures.

Commerce submitted a report summarizing the Committee's work and the Department's recommendations to the Governor and Legislature in June, 2005. The Department's recommendations included the following for oil filters: (a) a recycling goal of 60% be established for used oil filters, to be reached within two years after the goal is established or by July 1, 2008, whichever comes first; (b) if the recycling goal is not met by the deadline, a total landfill ban from commercial and residential generators should be enacted; and (c) an educational program should be developed which emphasizes proper draining of oil filters, the economics of recycling, and the adverse impacts of discarding used oil filters into landfills. The Department's recommendations included the following for oil-absorbent materials: (a) recycling rate goals should be established for major commercial generators (facilities that use more than 500 pounds of oil-absorbent materials in any one-month period) as follows: (1) 10% by July 1, 2008; (2) 20% by July 1, 2010; (3) 30% by July 1, 2012; and (4) 40% by July 1, 2014; (b) a landfill ban should be enacted at any of the deadlines at which a rate goal is not achieved; and (c) an educational program should be developed which emphasizes preventing spills that result in needing oilabsorbent materials.

No legislation has been enacted pursuant to receipt of the Commerce recommendations related to oil-absorbent materials. The Department of Corrections administers a computer recycling program under which inmates salvage, repair, and upgrade donated computers. The program is designed to reduce the number of computers deposited in landfills and to provide computers to government agencies and non-profit organizations at no cost. Under the program, inmates clean, reformat, and match components for recycling and remanufacturing, test electronic equipment for operating condition, and demanufacture any unsalvageable equipment for parts recycling or proper disposal.

In 2005-06, the program had an average total of 130 available positions, as follows: 34 positions at the Racine Youthful Offender Correctional Facility; five positions for female inmates from the Robert E. Ellsworth Correctional Center; one position at the Sturtevant Transitional Facility for donation pickups; 32 positions at the Jackson Correctional Institution; 36 positions at the Redgranite Correctional Institution; and 22 positions at the Taycheedah Correctional Institution.

During 2005-06, approximately 150,000 electronic components were donated to the program and 1,600 complete computer units (computer processing unit, monitor, keyboard, and mouse) were refurbished for donation. In 2005-06, more than 1,500 computers were donated to qualified program participants, including non-profit organizations and government agencies. The sale of recyclable commodities such as copper, aluminum, steel, plastic, and other items generated approximately \$468,000 in program revenue (PR) in 2005-06.

Total budgeted funding for the program in 2006-07 is \$491,400 (\$284,900 recycling SEG and \$206,500 PR) and 5.0 positions (2.0 SEG and 3.0 PR).

There are two types of sales and use tax exemptions targeted at certain recycling and waste reduction-related activities.

Cloth Diapers and Diaper Services. Sales of cloth diapers and charges by diaper services for cleaning and providing cloth diapers are exempt from the sales and use tax.

Motor Vehicles and Machinery and Equipment Used for Recycling Activities. Gross receipts from the sale of certain motor vehicles and machinery and equipment used in connection with recycling are exempt from sales and use tax. In order to be exempt, the motor vehicles and machinery and equipment must be used exclusively and directly with waste reduction or recycling activities that reduce the amount of solid waste generated or must be used to reuse, recycle, compost, or recover energy from solid waste. In addition, the motor vehicles must be vehicles that are not required to be licensed for road use.

2001 Legislative Audit of Recycling Programs

In January, 2001, the Legislative Audit Bureau (LAB) published an evaluation of state recycling programs. The LAB reviewed: (a) the effectiveness of recycling efforts in the state; (b) costs of recycling efforts and how costs vary among communities; (c) relationships between local expenditures, state grants and recycling rates; and (d) the number and function of state staff supported by the recycling fund.

The LAB findings related to program effectiveness included: (a) in 1999, over one-fourth of responsible units failed to meet effective recycling program per capita recyclable collection standards; and (b) the only means DNR has of sanctioning responsible units for failure to meet collection standards is to revoke effective program status and, effectively, permission to dispose of waste within Wisconsin, therefore there is no practical means of enforcing collection standards (such as reducing grant amounts in future years).

The LAB report listed several recycling issues for possible consideration by the Legislature, including: (a) addressing a possible recycling fund deficit (2001 Act 16 increased the recycling tipping fee from 30¢ to \$3 per ton); (b) developing new funding for state support of recycling (\$1.9 million in efficiency incentive grants was provided beginning in 2002-03); (c) determining if state recycling laws should be modified (a pilot program for an alternative method of compliance with effective program criteria was created in Act 16); (d) creating a new grant formula to distribute funds to municipal recycling programs (formula changes were item-vetoed by the Governor in Act 16); and (e) shifting the focus of state recycling staff efforts from technical assistance for municipal recycling programs to increasing efficiency and cost effectiveness of local programs or focusing on non-municipal solid waste (such as construction and demolition waste).

Governor's Task Force on Waste Materials Recovery and Disposal

The Governor created a Task Force on Waste Materials Recovery and Disposal in 2005 to study and make recommendations related to landfilling and recycling of solid wastes, waste reduction and reuse. The Task Force met several times during 2005 and 2006. In December of 2006, the Task Force was in the process of compiling final recommendations for the Governor.

APPENDICES

Several appendices provide additional program information.

• Appendix I lists the 2005-07 appropriations for recycling programs funded from the segregated recycling fund.

• Appendix II shows cumulative revenues and expenditures for the recycling fund from 1990-91 through 2005-06.

• Appendix III describes the major state statutory policies related to solid waste reduction, reuse, recycling, composting and resource recovery.

- Appendix IV describes exceptions to the 1991, 1993 and 1995 landfill and incineration bans.
- Appendix V describes the required components of an effective recycling program.

• Appendix VI describes DNR's authority to grant a variance from the effective recycling program criteria.

• Appendix VII summarizes major provisions related to waste generated outside of Wisconsin.

APPENDIX I

Appropriations Funded From the Segregated Recycling Fund, 2005-07

	2005-06	2006-07	Authorized Positions 2006-07
Administrative Appropriations			
Corrections			
410 (1)(qm)Computer recycling	\$284,900	\$284,900	2.0
<i>Natural Resources</i> 370 (2)(hq) Recycling administration	1,174,200	1,174,200	13.0
(3)(mr) Recycling administration (3)(mr) Recycling enforcement and research	243,900	247,800	2.4
(8)(iw) Statewide recycling administration	205,700	205,700	0.5
(9)(is) Statewide recycling administration	428,600	428,600	4.0
Revenue	120,000	120,000	
566 (1)(q) Recycling fees administration	218,200	218,200	1.0
University of Wisconsin System			
285 (1)(tb) Extension recycling education	339,600	339,600	4.0
(1)(tm) Solid waste research and experiments	155,100	155,100	0.5
Subtotal	\$3,050,200	\$3,054,100	27.4
Financial Assistance Appropriations			
Agriculture, Trade and Consumer Protection			
115 (7)(va) Clean sweep grants	\$710,400	\$710,400	
Natural Resources			
370 (6)(br) Waste reduction and recycling demonstration grants	500,000	500,000	
(6)(bq) Municipal and county recycling grants	24,500,000	24,500,000	
(6)(bv) Recycling efficiency incentive grants	1,900,000	1,900,000	
Subtotal	\$27,610,400	\$27,610,400	
TOTAL RECYCLING FUND APPROPRIATIONS	\$30,660,600	\$30,664,500	

APPENDIX II

Recycling Fund Cumulative Revenues and Expenditures 1990-91 Through 2005-06

	Amount (In Millions)	Percent
REVENUES		
Recycling Surcharge	\$461.83	75.39%
Recycling Tipping Fee	97.59	15.93
Transfer from the General Fund	29.70	4.85
Interest Income and Miscellaneous	23.47	3.83
Total Revenues	\$612.59	100.00%
EXPENDITURES AND ENCUMBRANCES		
Program Administration and Education		
Administration		
Recycling activities	\$0.24	0.04%
Agriculture, Trade and Consumer Protection		
Recycling products regulation	1.12	0.18
Commerce	0.00	0.10
Recycling development and rebate program administration	0.82	0.13
Recycling market development board; operations	1.75	0.29
Corrections	0.47	0.41
Computer recycling	2.47	0.41
Natural Resources Park and forest recycling activities	0.34	0.06
	15.76	2.58
Recyclingadministration Recyclingenforcement	1.00	0.16
Recycling grantsadministration	0.83	0.10
Statewide recycling administration	12.71	2.08
Statewide recycling education	5.04	0.83
Revenue	5.04	0.00
Recycling fees administration	4.01	0.66
Wisconsin Technical College System	101	0100
Recycling programs	0.02	0.01
University of Wisconsin System		
Extension recycling education	4.93	0.81
Research on tin can scrap	0.06	0.01
Solid waste research and experiments	1.34	0.22
Grant, Loan, Rebate and Financial Assistance Programs		
Agriculture, Trade and Consumer Protection		
Clean sweep grants	2.10	0.34
Commerce		
Recycling loans & grants assistance, including minority business recycling	3.56	0.58
Recycling rebates program assistance	10.81	1.77
Recycling market development board; assistance	22.15	3.63
Technology and pollution control and abatement grants and loans	0.40	0.07
Natural Resources	000.00	05.01
Environmental aids - municipal & county recycling grants	396.26	65.01
Recycling efficiency incentive grants	7.60	1.25
Environmental aids - waste reduction and recycling demonstration grants	10.95	1.80
Environmental aids - lake states wood utilization consortium	0.19	0.03
Wheelchair recycling project	0.02	0.01
WHEDA Transferdevelopment reserve fund	0.68	0.11
Transfer—brownfields redevelopment	4.00	0.66
Transfer to General Fund and Conservation Fund	98.39	<u>16.14</u>
TOTAL EXPENDITURES	\$609.56	100.00%
Cumulative Revenues less Cumulative Expenditures	\$3.03	
Less 2005-06Year End Continuing Balances and Encumbrances	\$0.47	
Available July 1, 2006 Fund Balance	\$2.56	

APPENDIX III

State Solid Waste Reduction, Reuse, Recycling, Composting and Resource Recovery Policies Section 287.05, Wisconsin Statutes

1. Maximum solid waste reduction, reuse, recycling, composting and resource recovery is in the best interest of the state to protect public health, to protect the quality of the environment and to conserve resources and energy.

2. Encouragement and support should be given to individuals, collectors, handlers and operators of waste facilities to separate solid waste at the source, in processing or at the time of disposal to facilitate reuse, recycling, composting or resource recovery.

3. Research, development and innovation should be encouraged to improve design, management and operation of solid waste reduction, reuse, recycling, composting and resource recovery systems and to improve the processes, to lower operating costs and to provide incentives for the use of these systems and operations and their products.

4. Encouragement should be given to initiatives of current recyclers which facilitate reuse and recycling through separation, collection and processing of substantial volumes of scrap and waste material, reducing the amount of mixed solid waste that is disposed of in landfills or burned without energy recovery.

5. Recovery of energy from solid waste is in the public interest where it replaces the use of nonrenewable fuels and it is done in a stateapproved program that protects public health and welfare and the environment.

6. Implementation of solid waste reduction, reuse, recycling, composting and resource recovery

systems and operations requires the involvement and cooperation of individuals, state and local governments, schools, private organizations and businesses. State government should rely to the maximum extent feasible on technical and financial assistance, education and managerial practices. Necessary regulations should be developed with maximum flexibility.

7. Solid waste reduction, reuse, recycling, composting and resource recovery efforts should be planned and coordinated in order to maximize beneficial results while minimizing duplication and inefficiency.

8. It is necessary for the state to occupy a regulatory role to achieve the policy goals and it is necessary to give municipalities and counties powers to adopt waste flow control ordinances to require the use of recycling and resource recovery facilities.

9. Solid waste reduction, reuse, recycling, composting, and resource recovery systems and operations are preferable to land disposal.

10. Developers and users of land disposal facilities should not become committed to land disposal so that reuse, recycling, composting and resource recovery systems and operations may be implemented rapidly.

11. The state encourages the following priorities of solid waste management: (a) reduction; (b) reuse; (c) recycling; (d) composting; (e) recovery of energy from solid waste; (f) land disposal; and (g) burning of solid waste without energy recovery.

APPENDIX IV

Exceptions to the 1991, 1993 and 1995 Landfill and Incineration Bans Section 287.07, Wisconsin Statutes

The 1995 bans do not apply to incidental 1. amounts of banned materials contained in solid waste generated in a region that has an effective recycling program and collected for disposal or treatment. An effective recycling program is required to prohibit disposal of any materials subject to the 1995 bans that have been separated for recycling. This exception recognizes that some incidental amount of recyclable materials may be found in solid waste collected for disposal, and that even a good recycling program will not be effective 100% of the time at capturing all banned materials. Banned materials may become unrecyclable with use, for example, when newspapers are used for window cleaning or plastic milk jugs are used for waste oil collection. Broken glass bottles are another example of a banned item which is no longer recyclable. This exception to the 1995 bans does not apply to materials that have been separated for recycling or to solid waste generated in a region that does not have an effective recycling program.

2. А "grandfather" clause exists for incinerators with a state solid waste license or air pollution permit in effect before May 11, 1990 (the effective date of 1989 Act 335). This exception allows the incinerator to convert to fuel or burn combustible materials (tires and the various types of paper and plastic) listed in the 1995 bans generated in the area served by the facility as of January 1, 1993, or generated by the owner of the facility. Under present DNR administrative rules, the operator of an incinerator with a design capacity of less than 500 pounds of waste per hour generally is not required to obtain a solid waste license or air pollution permit; these incinerators are thus not eligible for this exception.

3. The 1991, 1993 and 1995 bans do not apply to a facility that burns solid waste as a supplemental fuel if the solid waste provides less than 30% of the facility's heat input.

4. Burning of medical wastes in medical waste incinerators or other incinerators approved by DNR to burn medical waste is generally allowed. Landfilling of medical waste that has been treated to render the waste noninfectious is also generally allowed.

5. DNR may grant, to a responsible unit, an exception to the 1995 bans for up to one year in the event of an unexpected emergency condition. The exception would also eliminate the effective recycling program requirements to separate the materials for recycling and the prohibition on their disposal.

6. DNR may grant a waiver to the 1993 bans to allow the burning of brush or other clean woody vegetative material that is no greater than six inches in diameter at wood burning facilities that have air pollution permits or solid waste facility licenses from DNR that authorize the burning.

7. The 1993 and 1995 bans do not apply to the beneficial reuse of a material within a landfill if the use is approved in the landfill's plan of operation.

8. DNR may grant a waiver or conditional waiver to any of the 1995 bans if the applicant shows that the recyclable material has been contaminated and cannot feasibly be cleaned for recycling and DNR determines that granting the waiver or conditional waiver will not impede progress toward meeting the goals of the state solid waste policies. DNR may not grant a waiver or conditional waiver for material that has been

intentionally or negligently contaminated.

DNR may grant a waiver or conditional 9. waiver to the 1995 bans related to foam polystyrene packaging and plastic containers other than polyethylene terephthalate (PETE or #1) or high density polyethylene (HDPE or #2) if DNR determines that recycling of the material is not feasible or practical in light of current markets or available technologies and that granting the waiver or conditional waiver will not impede progress toward meeting the goals of the state solid waste policies. The waiver or conditional waiver would continue until one year after DNR determines that markets and technologies are available for recycling of the material subject to the waiver. Issuance of a waiver also eliminates for effective recycling programs both the requirement to separate the plastics and the prohibition on their disposal. On October 4, 1996, DNR issued a waiver to the disposal and collection requirements for #3-#7 plastic containers and polystyrene foam packaging. This waiver permits polyvinyl chloride (PVC or #3), low density polyethylene (LDPE or #4), polypropylene (PP or #5), polystyrene (PS or #6) and other/multi-layer (#7) containers and polystyrene foam packaging, to be landfilled or incinerated in the state. DNR granted previous variances in 1995 and 1996 for one year periods.

10. A responsible unit may not prohibit the beneficial reuse of a material by a landfill if the beneficial reuse of the material is approved by DNR in the landfill's plan of operation.

11. A responsible unit may not prohibit the landfilling or incineration of any material for which DNR has issued a waiver to the 1995 bans.

APPENDIX V

Twelve Required Components of an Effective Recycling Program Section 287.11, Wisconsin Statutes

1. A public education component.

2. Α requirement of that occupants residential, commercial, retail, industrial and governmental (including federal) buildings either separate from their postconsumer waste the materials subject to the 1995 bans or treat these wastes at a facility which will recover those materials from commingled solid waste. Postconsumer waste is defined to be solid waste other than: waste generated in the production of hazardous goods, waste, construction or demolition waste, scrap automobiles or highvolume industrial waste.

3. A system for collecting separated recyclable materials from single-family residences.

4. A system for the processing and marketing of recyclable materials collected under the program.

5. A requirement that owners of building containing five or more dwelling units do the following: (a) provide containers for separated materials; (b) notify tenants of the recycling program; and (c) provide for the collection and recycling of separated materials.

6. A requirement that owners of commercial, retail, industrial and governmental facilities: (a) provide containers for separated materials; (b) regularly notify all users and occupants of the

recycling program; and (c) provide for the collection and recycling of separated materials.

7. A prohibition on the landfilling or burning of any material subject to the 1995 bans that has been separated for recycling. (The plastics subject to the waiver of the 1995 bans are not subject to the prohibition.)

8. Provisions for the management of postconsumer waste not separated for recycling under the program, consistent with the solid waste management priorities.

9. Other criteria established by rule by DNR.

10. Adequate enforcement of the above components (#1-9).

11. Possession of the equipment or means necessary to implement the public education, separation, single-family residence collection, marketing and enforcement components described above.

12. A reasonable effort, through the implementation of the program components described above, to reduce to the maximum extent feasible the amount, by weight, of each material subject to the 1995 bans that is generated in the region and disposed of in a landfill, converted into fuel or burned without energy recovery.

APPENDIX VI

Variances from Effective Program Criteria

If markets are not available for any material subject to the 1995 bans, DNR may grant a variance for that material from effective program occupants requirements specifying that of residential, commercial, retail, industrial and government buildings separate the 1995 banned items and that the separated materials be banned from landfilling or incineration. This variance may be granted at a request of the responsible unit with an effective recycling program or on DNR's initiative. Variances may apply to one or more responsible units with an effective recycling program. Variances are limited to one year in length, but there is no limit on the number of times that a variance may be granted.

The variance may be granted if DNR determines that the "cost of selling processed material" exceeds either: (a) \$40 per ton, adjusted for inflation since 1989; or (b) the "cost of disposing of processed material." These terms are defined as follows:

1. **Processed material.** A component of solid waste that has been collected, transported to a

waste processing facility and prepared for sale to a broker, dealer or manufacturer.

2. **Cost of disposing of processed material.** The gross cost of transferring processed material to a solid waste disposal facility and disposing of the processed material, including any disposal costs not paid through fees charged by the facility.

Cost of selling processed material. The 3. net cost, including storage costs, of selling processed material to a broker, dealer or manufacturing facility, plus any cost of transporting the processed material from the waste processing facility to the destination specified by the buyer, less the portion of any state financial assistance received attributable to the processed material.

Since the test for granting a variance is based on the costs of selling and disposing of processed material, the test does not incorporate the costs of collecting, transporting to a processing center or processing the waste material.

APPENDIX VII

Summary of Major Out-of-State Waste Legal Provisions

The recycling statutes in effect prior to 1997 required an out-of-state local governmental unit to seek DNR approval of its recycling program as an effective program in order to dispose of solid waste in Wisconsin. However, in National Solid Waste Management Assoc. v. George Meyer, 63 F. 3d 653 (1995), the U.S. Seventh Circuit Court of Appeals ruled that the following requirements for landfilling or incinerating out-of-state waste in Wisconsin violated the Commerce Clause of the U.S. Constitution: (a) that the local government in whose jurisdiction the waste is generated must implement an effective recycling program; (b) that the determination that an out-of-state recycling program is an effective program must be promulgated in rules; and (c) that the state in which the waste is generated must implement an effective landfill siting program.

1997 Act 27 made several changes related to the disposal of out-of-state waste in Wisconsin, all of which were to be effective on October 1, 1999. The Act included three provisions intended to respond to the federal court rulings by: (a) retaining the requirement that in order for solid waste generated in another state to be disposed of in Wisconsin, the out-of-state local government's recycling program must be an effective recycling program, but allowing the local government to apply the components of the program only to those waste materials that are disposed of in Wisconsin; (b) repealing the requirement that the determination that an out-of-state local government has an effective recycling program be promulgated in rules; and (c) repealing the requirement that in order for out-of-state waste to be disposed of in

Wisconsin, the state in which it is generated must have an effective recycling program.

Under 1997 Act 27, out-of-state local governments would be eligible to obtain variances from certain effective program requirements and exceptions to the landfill and incinerator bans for which in-state responsible units are currently eligible. The Act also exempted out-of-state local governments from the effective recycling program requirements to: (a) prohibit the disposal within their jurisdiction of materials separated from waste for recycling; and (b) manage waste not separated for recycling in compliance with Wisconsin's recycling policy.

In December, 1997, the constitutionality of the revised law was challenged in court. In National Solid Waste Management Assoc. v. George Meyer, No 97-C-851-S (W.D. Wis, June 1, 1998), the U.S. District Court for the Western District of Wisconsin struck down the law without a trial, and agreed with the plaintiffs' contention that the law violates the Commerce Clause, the Due Process Clause and principles of state sovereignty set out in the U.S. Constitution. The court found that all of the objections to the prior law that were raised by the U.S. Seventh Circuit Court of Appeals apply equally to the revised law. On July 1, 1998, the State of Wisconsin appealed the decision, asking that the case be remanded to the district court for either a trial on the disputed facts in the case or summary judgment in favor of the state. In January, 1999, the U.S. Seventh Circuit Court of Appeals upheld the decision (165 F. 3d 1151 (1999)).