

# Ohio Scrap Tire Program: Summary of Past Achievements and Today's Challenges

## INTRODUCTION

The Ohio Environmental Protection Agency (Ohio EPA) is conducting a broad review of the solid waste management program that House Bill 592 established in 1988. Scrap tire management is recognized as an important component of the overall solid waste management system in Ohio. As evidenced through Ohio's experiences with illegal tire accumulations, improperly managing scrap tires can cause significant environmental and health threats. Scrap tires also represent a valuable resource. By channeling scrap tires through a comprehensive, accountable, management system, Ohio's scrap tire program has largely eliminated the threats posed by improperly managed tires while increasing opportunities for recycling and reusing scrap tires.

This document presents a broad overview of Ohio's scrap tire management program. This overview summarizes how the program developed over time, the components of the program, accomplishments during the past 19 years, the current status of the program, and ongoing challenges. The information and data presented in this document are intended to be used as a basis for making program recommendations during process of reviewing Ohio's solid waste management program.

*[NOTE: Unless noted otherwise the information presented here within is current as of July 1, 2012, the beginning of State Fiscal Year (SFY) 2013.]*

## BACKGROUND

Prior to Ohio's scrap tire law and regulations, a large number of scrap tires were discarded through illegal practices. Accumulations at tire shops and want-to-be recyclers along with simple open dumping were common occurrences. In 1987, Burgess and Niple, Ltd, prepared a report for Ohio EPA titled "Used Tire Recovery and Disposal in Ohio". This report provided a snapshot of the scrap tire management system in Ohio at the time. Based on a statewide survey of scrap tire generators and recyclers in Ohio, Burgess and Niple estimated that 47 percent of scrap tires were unaccounted for and presumed to be illegally dumped or stored.

In 1993, the Ohio General Assembly passed Ohio's comprehensive scrap tire management law. At that time, Ohio's new scrap tire program faced having to abate an estimated 50 million tires in illegal accumulations located throughout the state. Approximately half of those tires were stored at the Kirby Scrap Tire site near Sycamore in Wyandot County (see the description of the Kirby site that is provided later in this document). Those numbers illustrate the importance of a strong regulatory program for managing scrap tires.

Scrap tires are regulated as solid waste in Ohio, and the scrap tire program is administered by Ohio EPA's Division of Materials and Waste Management (DMWM). Because they are solid waste, improperly disposed tires are subject to Ohio's open dumping law.

Improperly managed scrap tires can cause significant public health and environmental hazards. Water-logged tires are breeding grounds for mosquitoes which can transmit diseases such as West Nile Virus and meningitis. Large accumulations are fire hazards. Illegally dumped tires

are public nuisances and eyesores. Even when disposed in a landfill, scrap tires are problematic. Whole scrap tires do not compact and tend to migrate to the surface of the landfill where they disturb the cap system.

## **LEGISLATION**

### **Scrap Tire Law**

In 1989, Ohio EPA and the Solid Waste Management Advisory Council adopted the first state solid waste management plan (the 1989 State Plan). As was required by House Bill 592, the 1989 State Plan provided recommendations for a comprehensive scrap tire regulatory program. These recommendations included instituting a ban on disposing of scrap tires in solid waste landfills. At the time, Ohio EPA did not have the authority to regulate transporters of scrap tires, a crucial component for implementing the recommended program.

Amended Senate Bill 165, effective October 29, 1993, created the new scrap tire law in Ohio Revised Code (ORC) Sections 3734.70 through 3734.90. Because the new law granted Ohio EPA the authority to regulate scrap tire transporters, Ohio EPA was able to create and implement the program as originally envisioned in the 1989 State Plan. Since then, the Ohio General Assembly has periodically amended the legislation to incorporate minor technical changes, modify fee rates, and extend legislatively imposed sunset dates for the scrap tire fee. Most recently, Senate Bill 487, effective July 2012, transferred the Ohio Department of Natural Resources (ODNR), Division of Recycling & Litter Prevention (DRLP) and the scrap tire grant program to Ohio EPA. (See information regarding the scrap tire grant program that is provided later in this document.)

### **Scrap Tire Regulations**

The initial rules establishing Ohio's regulations for scrap tire management became effective on March 1, 1996. These rules are codified in Ohio Administrative Code (OAC) Chapter 3745-27. In addition to clarifying the requirements in the law, these new rules instituted a ban on the disposal of whole scrap tires in landfills (except for dedicated monofills and monocells) and incinerators. A ban on the disposal of scrap tire shreds went into effect on March 1, 1997.

Ohio EPA has performed two full-scale reviews of the rules in accordance with Ohio Revised Code Section 119.032 which requires Ohio EPA to review its existing rules every five years. As a result of these reviews, Ohio adopted revised scrap tire management rules in March 2002 and in November 2007.

## **CURRENT SCRAP TIRE MANAGEMENT PROGRAM**

### **The Scrap Tire Fee**

Ohio's scrap tire program is funded by a per tire fee that is assessed on every new tire sold by tire wholesales. The 1993 scrap tire law established the fee at \$0.50 per tire. For reasons that are explained later in this document, Ohio's General Assembly increased the fee to \$1.00 in 2001. The amount of the scrap tire fee has not changed since 2001.

Revenue from the scrap tire fee is deposited into Ohio's Scrap Tire Management Fund along with revenues Ohio EPA receives from scrap tire transporter and facility license, permit, and registration fees. The scrap tire law specifies that money from the scrap tire fund must be spent

on administering the scrap tire law, issuing scrap tire grants, and abating illegal scrap tire accumulations.

## **Enforcement and Abatement**

Ohio EPA has the authority to use enforcement tools to require land owners to clean up tire accumulations on private properties. When those efforts fail, Ohio EPA has the authority to obtain access to the property, remove the tires, and require the property owner to reimburse the state of Ohio for abatement expenditures.

### Enforcement

Although Ohio EPA has primary authority for regulating scrap tires, local health departments and law enforcement agencies also perform regulatory and enforcement functions. All of those entities cooperatively identify scrap tire accumulations. After a scrap tire pile has been identified and inspected, either the local health department or Ohio EPA notifies the property owner of violations and that the tires must be removed. If the owner or operator does not comply within a reasonable amount of time, then active enforcement ensues, starting with the local legal system. When an enforcement case requires a court action or involves obtaining the rights to access the property for remediation, Ohio EPA frequently refers the case to the Ohio Attorney General Office for resolution. Prior to spending scrap tire program funds for remediation, Ohio EPA must initiate and exhaust available enforcement options. Ultimately, once legal options have been exhausted, Ohio EPA hires a contractor to remove the scrap tires from the property. Ohio EPA also has the authority to seek cost recovery and assess penalty fines.

From calendar years 2001 to 2011, Ohio EPA initiated 84 scrap tire related enforcement cases. Local law enforcement and county prosecutors have also brought legal action in a number of scrap tire cases. Depending on the complexity of the case, legal actions may extend over several months and even years. Results of enforcement actions have included: clean-up projects and restitution, civil and criminal penalties, community service, and incarceration of individuals for repeat and grievous offenders.

Currently, Ohio EPA, DMWM is involved in compliance and enforcement activities in 10 active scrap tire cases. These cases are all pending enforcement actions as denoted by bold type in Attachment 1.

### Abatement

Cleaning up Ohio's illegal scrap tire accumulations is essential to protect public health and the environment and to prevent on-going open dumping of scrap tires at existing sites. Abating large, historic scrap tire piles and effective rules for managing scrap tire storage areas together have allowed Ohio to eliminate numerous mosquito breeding locations, thus reducing the potential for the spread of West Nile virus and other mosquito borne diseases. Removing these piles also eliminated the fire hazards associated with sites such as the former Kirby Tire Recycling property (see description on the next page).

In the early years of the scrap tire program, Ohio EPA prioritized scrap tire remediation projects based on those that posed the greatest threat as required by ORC Section 3734.85(B). At that time, there were more sites than available funds to remediate all of those sites. Therefore, the prioritizing system was needed to rank sites in terms of which should be abated first. In recent years, Ohio EPA has not needed to prioritize sites since the scrap tire management fund has been adequate to complete all remediation projects as needed.

While the scrap tire fund was used to clean up larger abandoned tire piles, local resources have been invaluable in cleaning up many smaller tire accumulations. Because of the priority setting process described earlier, many of these sites would not have been cleaned up as quickly under Ohio EPA's state-level program.

Attachment 2 provides a summary of the 437 scrap tire remediation projects completed using the scrap tire fund during SFS 1999 through 2012. Expenditures associated with these projects total \$59.4 million for the removal and disposal of approximately 38.5 Million Passenger Tire Equivalents (PTEs).

Kirby Scrap Tire Site - During SFYs 1998 and 1999, Ohio EPA completed its first five scrap tire remediation projects and began remediating the Kirby Tire Recycling property. Originally, Ohio EPA estimated that there were 15 to 20 million tires on site and it would take 15 to 20 years to remediate. On September 22, 1998, Ohio EPA issued an order requiring the owner of the property to remove all tires from the site by January 20, 1999. The owner failed to comply with the order, and on July 1999, Ohio EPA's contractor began removing tires from the site.

On August 21, 1999, an arsonist set fire to the tires on the Kirby property. In total, the fire burned five to seven million tires and resulted in costly remediation of the property. In 2001, Ohio's General Assembly increased the scrap tire fee to \$1.00 per tire to pay for the high costs associated with removing the fire residuals and monitoring groundwater at the site. The additional revenue from the higher fee allowed Ohio EPA to complete abatement of the site much faster than originally predicted.

Ohio EPA's contractors cleaned up the portion of the property not affected by the fire by June 2006. Ohio EPA's contractors completed removing the fire residuals by April 2008. By the end of the nine-year abatement project, Ohio EPA's contractors had removed more than 23 million passenger tire equivalents, 158,000 tons of fire residuals, and 38,000 tons of solid waste from the property. In total, Ohio spent about \$40 million to remediate the Kirby property. Those costs account for approximately two-thirds of all scrap tire remediation expenditures made to date.

Today, an interested party is considering the Kirby property as a potential location for a solar farm.

Sites Remediated with Cost Recovery Attempted - In addition to the Kirby site, Ohio EPA remediated the 44 scrap tire sites denoted by bold type in Attachment 2. Ohio EPA spent more than \$17.3 million to remediate these 44 sites. For many of these sites, Ohio EPA sought restitution of abatement costs from the property owners. However, such cost recovery efforts were marginally effective because landowners usually were bankrupt, and the remediated properties typically had low values.

Consensual Abatements without Cost Recovery - When the General Assembly created Ohio's Scrap Tire Law in 1993, the law included a provision that authorizes Ohio EPA to conduct state-funded cleanups for accumulations of more than 100 but less than 2,000 tires without subsequent cost recovery provided, that six specified conditions are met. In 2012, the Ohio General Assembly adopted SB 294 which increased the quantity of eligible tires under this provision to 5,000 tires.

Both public and private entities can apply for state-funded abatements for these small scrap tire accumulations. However not all scrap tire sites can qualify for this program. Specific conditions spelled out by statute limit eligible sites to parcels with tires that were acquired through estates by bequeath or devise and to parcels where the current property owner is a victim of scrap tire open dumping and no responsible party has been identified. In either case, the applicant must state that no financial benefit was received from the tires being placed on the parcel. Applicants must provide a completed and notarized form acknowledging that all six of the specified conditions apply and a copy of the property deed providing a legal description of the site boundaries.

Attachment 2 identifies the 393 “less than 2,000” tire sites that have been remediated since 2005. At a few locations, more than 2,000 tires were removed because previously unknown buried or submerged tires were discovered during site remediation work.

This program has also been used to financially assist many county and local governmental entities that manage scrap tires collected by road crews and/or volunteers from public roadways, alley right-of-ways, and river sweep clean-ups. For those situations, funds are used to pay state contractors to remove and dispose of the collected scrap tires.

Scrap Tire Clean-ups Completed without State Funding - Local governments and private landowners have voluntarily funded efforts to remove and properly dispose of a substantial number of scrap tires. Other landowners have paid for cleanups as a result of enforcement actions. None of these clean-ups involved spending state funds. There are likely more private cleanups that occurred but were not reported. Regardless, Ohio EPA estimates that local governments and private landowners have removed 13 million tires from over 200 sites without financial support from the scrap tire management fund.

Remaining Sites - Ohio EPA estimates that almost 800,000 PTEs remain at 80 identified scrap tire sites in Ohio (see Attachment 1). There are seven properties that each hosts an accumulation of 10,000 or more tires. These properties are as follows:

- Nelson Ledges Raceway in Portage County with an estimated 500,000 to 600,000 tires;
- Ashland Road dump in Cuyahoga County with an estimated 60,000 tires;
- Unnamed site in Stark County with an estimated 50,000 tires;
- Plunkins site in Cuyahoga County with an estimated 23,000 tires;
- Soldier’s Home site in Montgomery County with an estimated 20,000 tires;
- Eaton site in Montgomery County with an estimated 16,530 tires; and,
- Pearson in Carroll County with an estimated 10,000 tires.

All of the other identified illegal scrap tire dumps contain less than 10,000 scrap tires. The scrap tire dump inventory is always in flux as sites are cleaned-up and new sites are discovered.

State Contractors - Liberty Tire Service of Ohio, LLC and Rumpke of Ohio, Inc., are the private sector firms currently providing remediation services to Ohio EPA. These services are being provided through a multi-year, multi-award contract with the Ohio Department of Administrative Services, Office of Procurement Services. The contract is being administered by Ohio EPA, DMWM. In previous years, Ohio had state contracts with Environmental Quality Management and Central Ohio Contractors. These private contractors completed state funded scrap tire remediation projects, namely at the Kirby property and other sites located in rugged and difficult topography.

## **Comprehensive Scrap Tire Management Oversight**

To ensure that scrap tires are managed appropriately, Ohio's scrap tire law gives Ohio EPA the authority to oversee all aspects of scrap tire management. Essentially, this means that Ohio EPA regulates all activities from the time a tire is removed from a vehicle until that tire is either recycled or disposed of. Thus, Ohio EPA regulates transporting, collecting, storing, recovering, and disposing of scrap tires. Ohio EPA accomplishes this through a system of authorizing documents, scrap tire shipping papers, and annual reports. Providing information, outreach and technical assistance is another important component of the scrap tire program.

### Authorizing Documents

A significant part of administering Ohio's scrap tire program involves processing and issuing authorizing documents for scrap tire transporters and owners/operators of scrap tire facilities.

Transporters – Anyone who wants to transport 10 or more tires on a vehicle must annually obtain a registration certificate from Ohio EPA. There are a few exceptions to this requirement that are named in the scrap tire rule. All Registered transporters must comply with regulations governing the transportation, tracking, storage, and management of scrap tires.

Scrap Tire Facilities - Ohio EPA regulates facilities for collecting, storing, disposing, and recovering scrap tires. Anyone wanting to legally operate any of these facilities must obtain the appropriate authorization from Ohio EPA. Required authorization can include a permit, license, and/or registration certificate. The specific authorization needed depends on the type of facility. In addition, owners and operators of scrap tire collection, storage, recovery, and disposal facilities must comply with operational requirements prescribed by Ohio's scrap tire regulations.

### Scrap Tire Shipping Papers

All scrap tire transporters and owners and operators of scrap tire facilities are required to use and retain scrap tire shipping papers. These papers serve as manifests that allow Ohio EPA to monitor the flow of scrap tires into, within, and out of Ohio. Shipping papers are used each time a transporter picks up scrap tires from any source or delivers scrap tires to authorized facilities. In this way, the shipping papers account for scrap tires from where they are generated to their ultimate destination.

### Annual Reports

Scrap tire transporters and owners/operators of scrap tire facilities must submit annual reports to Ohio EPA not later than January 31 of each year. This report is used to document, among other information, the quantities, types, origins, and destinations of scrap tires during the report year. A transporter prepares the report using the shipping papers for all scrap tires transported by that transporter during the report year. Scrap tire facility owners and operators use their daily logs to prepare the report.

### Status of Regulated Entities

DMWM currently oversees and provides technical assistance to 35 licensed scrap tire facilities, consisting of 33 collection, storage, recovery, and disposal facilities and two licensed mobile recovery facilities. DMWM also regulates 78 registered transporters, including 11 firms located outside of Ohio. The firms that transported the highest volumes of scrap tires and the facilities that processed the most scrap tires in Ohio during calendar year 2011 are listed in Attachment 3.

## Grants

Based on recommendations from the Burgess & Niple 1987 study, the Ohio General Assembly created provisions in the scrap tire law for a scrap tire grant and loan program. This program allows Ohio to distribute money from the scrap tire fund to further scrap tire management efforts. Prior to SFY 2002, the scrap tire grant and loan program was administered by the Ohio Department of Development (ODOD). During this time, ODOD issued grants to provide financial assistance to the scrap tire industry to improve markets for scrap tires

From SFY 2002 through SFY 2012, the scrap tire grant program was administered by ODNR, DRLP. During that time, ODNR, DRLP issued grants for two purposes – developing markets for scrap tires and scrap tire amnesty programs. The grants issued by ODNR, DRLP were for equipment purchases, research and development grants, product development, and processing demonstrations.

In SFY 2013, the General Assembly transferred ODNR, DRLP along with administration of the grant program to Ohio EPA.

### Market Development Grant

There are three overriding goals of the Market Development Grant program:

- 1) Change the status of scrap tires in Ohio from a waste product to that of a valuable commodity;
- 2) Invest in markets which are both operationally and economically viable; and,
- 3) Ensure that there are suppliers who can provide feedstock materials that meet agreed upon specifications, that feedstock falls within reasonable pricing parameters and that suppliers can deliver feedstock in a consistent manner.

Any enterprise that is awarded a Market Development Grant must provide a financial contribution to the project that is at least equal to the grant amount awarded.

Attachment 4 provides a listing of the initial 64 grants and loans made by ODOD during SFYs 1995 through 2001. In those years, ODOD awarded grants totaling \$8.75 million. Attachment 5 provides a listing of the 183 market development grants issued by ODNR, DRLP. In total, grants awarded through ODNR, DRLP amounted to more than \$9.5 million.

As of July 2012, market development grant-funded projects had resulted in a combined 22.4 million scrap tires being used during the course of completing the projects. Markets for scrap tires developed quickly in part because scrap tires cannot be disposed in landfills due to Ohio's landfill ban. More importantly, however, scrap tire markets are stronger in Ohio due to the grant-funded projects. This strength is illustrated by the increase in the percentage of tires recycled or reused from 33 percent to over 95 percent over the last 25 years. Diversified and sustainable scrap tire markets create jobs in Ohio and generate state and local tax revenues.

### Tire Amnesty Grants

Tire amnesty grants provide financial assistance to local communities that establish and operate programs for residents to economically and environmentally manage scrap tires. Grant funding is made available to Ohio solid waste management districts and authorities, county health departments and districts, and other local governmental agencies to coordinate and provide tire amnesty drop-off collection services and collection events. Grant recipients have used grant funds for multi-media advertising, educational materials designed to discourage the illegal

management of scrap tires, and for contracts with registered Ohio scrap tire transporters and licensed processing facilities to transport and dispose of tires.

As shown in Attachment 6, ODNR, DRLP awarded 112 Tire Amnesty Grants totaling over \$2.96 million in SFY 2004 and SFYs 2010-2012. The collection programs sponsored by the grants resulted in almost 2.6 million scrap tires being collected and properly managed.

### **Beneficial Uses of Scrap Tires**

OAC Rule 3745-27-78 contains provisions that allow people to beneficially use whole and cut scrap tires. There are two types of uses – those that are “authorized-by-rule” and those that require Ohio EPA approval. Some of the uses that are authorized-by-rule include crash barriers at race tracks, rifle range backstops, and weights to hold down tarps and covers for agricultural uses and at landfills. Authorized-by-rule beneficial uses of shredded scrap tires include various civil engineering applications, as a cover material for playgrounds, backfill around buildings, and as a gravel substitute in septic system leach fields and drainage pipes.

Anyone wanting to use scrap tires for beneficial uses that are not specifically named in the rule must submit project plans to and receive approval of those plans from Ohio EPA before performing the project.

## **PROGRAM ADMINISTRATION**

### **Information, Outreach, and Technical Assistance**

Ohio’s scrap tire program has a strong compliance assistance focus, including strong outreach and technical assistance, to educate regulated entities and the public about the program. Ohio EPA offers an outreach and assistance program that consists of multiple components.

Ohio EPA operates a toll-free hotline (1-877-372-2621) that allows individuals to anonymously report illegal scrap tire-related activities. Through this hotline, Ohio EPA receives an average of 10 inquiries from the general public per week. DMWM staff routinely provides scrap tire program technical assistance to industry representatives, Ohio EPA district office and local health department inspectors, and the general public. The Agency also issues news releases to publicize scrap tire enforcement cases, grant awards, and completed scrap tire remediation projects.

Ohio EPA provides information via its website. The webpage dedicated to the scrap tire program provides the general public and regulated community with easy access to information about scrap tire management. Visitors can find an overview of the scrap tire program and links to related rules, forms, transporter and facility listings, and fact sheets.

In December 2003 and August 2007, Ohio EPA submitted written reports titled “Scrap Tire Management in Ohio” to the Ohio General Assembly. Ohio EPA also produced and distributed an educational DVD called “Mired in Tires: New Ways to Manage an Old Menace”. DMWM staff has conducted numerous training sessions and presented at conferences during the last 25 years. Scrap tire staff members were also contributing authors to the “Scrap Tire Cleanup Guidebook” (US EPA Publication EPA 530-R-06-001).

Ohio EPA staff participates in the US EPA Scrap Tire Workgroup. The Workgroup was established in 2003 to bring together diverse stakeholders, including US EPA, state regulatory

agencies, industry, academia, and other interested parties. The Workgroup works cooperatively via quarterly conference calls and occasional in-person meetings to address critical and emerging scrap tire issues facing our nation. The mission of the Workgroup is to abate scrap tire stockpiles nationwide and to encourage expansion of and eliminate barriers to scrap tire markets. Through a US EPA established website, Ohio EPA staff maintains communications with colleagues regarding scrap tire industry developments, market trends, and emerging scrap tire issues.

## **FUNDING AND EXPENDITURES**

### **The Scrap Tire Fee**

As was mentioned earlier, Ohio's General Assembly originally established the scrap tire fee at \$0.50 per tire. In 2001, after the fire at the Kirby Tire Recycling property, the General Assembly increased the scrap tire fee to one dollar per tire. The additional fifty cents was specifically designated for fire-related expenses at the Kirby property. Following remediation of the Kirby property, the General Assembly continued the one dollar per tire fee to pay for remediation expenses at the Goss site in Muskingum County.

The law assigns an expiration (sunset) date to the scrap tire fee. At Ohio EPA's request, the Ohio General Assembly has renewed the fee on multiple occasions. Most recently, Ohio's General Assembly renewed the \$1.00 per tire fee along with the biennial budget for state fiscal years 2012 and 2013. However, the \$0.50 that previously had been earmarked for remediating the Kirby property is now credited to the Soil and Water Conservation District Assistance Fund. The scrap tire fee is currently scheduled to expire on June 30, 2013.

The scrap tire fee is collected on every new tire sold at the wholesale level. The fee is collected by the Ohio Department of Taxation from over 130 new tire distributors. All fee revenues are deposited directly into the scrap tire management fund. Approximately \$4 million is deposited into the scrap tire management fund annually.

### **Summary of the Scrap Tire Management and Market Development Funds**

Ohio EPA's scrap tire management fund received almost \$95 million from scrap tire revenues in SFYs 1994 through 2012. Scrap tire revenues include fees from licensing and registering scrap tire transporters and facilities in addition to the amount Ohio EPA received from the fee on wholesale tire sales. Of the \$95 million, just over \$19 million was transferred to ODNR's scrap tire market development fund for grants and loans. During this period, the Ohio EPA spent more than \$59 million for remediation projects and ODNR awarded nearly \$20 million in grants and loans. Beginning in SFY 2013, The Ohio General Assembly transferred the scrap tire market development program and fund to Ohio EPA.

The scrap tire management fund and the scrap tire market development fund had beginning SFY 2013 cash balances of \$11.1million and \$2.5 million respectively. The figures in attachment 7 provide a historical depiction of annual revenues and spending for each fund over the last five completed state fiscal years. Annual fund disbursements differ from remediation and grant and award amounts each year due to timing of payments. Spending descriptions are based on the spending account codes comprising most remediation project spending and grants or loans, with the remainder grouped as an estimate of administrative and enforcement costs.

The table in Attachment 8 provides a break-down of expenditures by counties and SWMDs.

## MARKETS FOR SCRAP TIRES

Currently, most scrap tires are collected from customers by tire shops when the customers purchase new tires. Most tire shops assess their customers a fee of one or two dollars to pay for the subsequent transportation and recovery or disposal of the tires at a licensed scrap tire facility. Scrap tires collected in Ohio fall into three general markets: tires that are sold for reuse as used tires; tires (especially truck tires) that are retread; and tires that are processed into products and used in a host of applications.

The figure in Attachment 9 illustrates how tires that are processed at recovery facilities in Ohio are distributed for subsequent use. Approximately 45 percent of scrap tires that are processed in Ohio are cut into rough shreds and tire chips of various sizes (mostly chips less than four inches in size). These chips are represented by tire derived chips (40 percent) and tire derived fuel (five percent) in Attachment 9. Tire derived chips are used in a number of civil engineering applications, including as a substitute for sand, soils and aggregates in drainage layers of landfills and septic systems, as lightweight fill in the construction of roadways, and as home foundation backfill. Some tire chips are colored and sold as mulch. As tire-derived fuel, scrap tire chips are mixed with other fuels such as wood and coal and burned to produce energy.

An estimated 17 percent of scrap tires in Ohio are shipped from a primary processor to a secondary processor for additional processing. Around 12 percent of scrap tires are disposed of in scrap tire monofills and monocells. Another 11 percent of scrap tires are ground into crumb rubber (after bead and steel belts have been removed). Crumb rubber is often used to produce rubberized asphalt pavements, playground surfaces, athletic fields and horse arena surfaces.

Slightly more than eight percent of tires are stored, three percent are recycled, and three percent are reused as whole scrap tires. Common uses of whole scrap tires include rifle range backstops, crash barriers around race ways, and as weights to hold agricultural tarps in place. An example of recycling scrap tires is using tire side walls (known as bagel cuts) as the base for orange construction barrels. Other products that use rubber derived from scrap tires include various mats, bumpers, and other manufactured items.

## SUMMARY

Since its inception in 1993, Ohio's scrap tire program has achieved some major accomplishments. Some of these accomplishments include:

- Removing the largest, legacy scrap tire accumulations around Ohio thereby eliminating the threats to the environment and public health and safety posed by improperly stored tires.
- Establishing a stable funding source for Ohio's scrap tire program.
- Implementing a comprehensive scrap tire management system that encompasses all aspects of scrap tire handling from the time a scrap tire is removed from a vehicle to the final disposition of that tire.
- Tripling Ohio's scrap tire recycling rate to over 95%, as a result of new diversified and sustainable markets supported by state-awarded market development grants.
- Awarding 112 tire amnesty grants that resulted in collecting and properly managing almost 2.6 million tires.

## **CURRENT PROGRAM CHALLENGES**

Despite all of Ohio's accomplishments, illegal scrap tire activities still persist. Illegitimate scrap tire transporters are identified too frequently and remain a major source of open dumping of scrap tires. Unidentified individuals continue to illegally dump scrap tires along rural roads, on vacant city lots, and in alleys at an increasing rate in some localities. These realities point to a need to increase both Ohio's enforcement efforts and efforts to change public attitudes and behavior. Further, because the state has eliminated most of the large, historic tire accumulations, Ohio EPA can focus its efforts on new initiatives that can refine and strengthen the scrap tire program for the future.

Some of the challenges that Ohio's scrap tire program still face include the following:

- While Ohio has eliminated the large, historic scrap tire accumulations, the state continues to experience a high number of small tire accumulations. Despite on-going clean-up efforts, the number of small accumulations that exist at any one time is not diminishing.
- Because the nature of illegal scrap tire management has changed in scale, the state is faced with the challenge of administering a centralized program for removing many, small, widely distributed scrap tire accumulations.
- Ohio's scrap tire recovery rate is very high and the markets for scrap tires are significantly stronger than they were in 1988. However, a large percentage of scrap tires become drainage layer material in landfills. For long term market stability, Ohio needs to continue to develop more diverse markets for scrap tires.
- To overcome the continuing mismanagement of scrap tires, Ohio needs to evolve its program from being primarily an abatement program for historic accumulations to one that prevents future accumulations. Accomplishing this may involve implementing new deterrents, increasing enforcement efforts, and creating educational initiatives to change behavior.

The recommendations discussed above may involve the Ohio General Assembly enacting revisions to the Ohio Revised Code.

## ATTACHMENT 1

### Identified Scrap Tire Sites Remaining in Ohio (current as of 8-29-2012)

[NOTE: **Bold Type** indicates an Ohio EPA Enforcement case]

Site Name	Address	City	County	Estimated Quantity (number of tires)
Shook	910 Twp Rd 1806	Ashland	Ashland	8,000
Regal	58 Twp Rd 391	Sullivan	Ashland	4,000
NorthCoast/Colucci	2007 State Road	Ashtabula	Ashtabula	600
<b>Lakeside Industrial Park</b>		<b>Ashtabula</b>	<b>Ashtabula</b>	<b>5,000</b>
South Side Auto Wrecking	12712 Aqueduct Rd.	St. Marys	Auglaize	2,500
	4155 Mayhem Rd	Carrollton	Carroll	
Pearson	7106 Arrow Rd	Minervia	Carroll	10,000
Ronnie Stewert	1748 Ballentine Pike	Springfield	Clark	300
Brooks Auto & Tire	2767 E Main	Springfield	Clark	250
Jim's Tires	1717 W. North	Springfield	Clark	250
H&W Tire Service	1302 S. Yellow Springs	Springfield	Clark	2,100
Meade's Automotive	1555 S. Yellow Springs	Springfield	Clark	250
Meade's Selma Rd Tire	273 Selma	Springfield	Clark	2,050
Pennington Tire Shop	2001 S. Yellow Springs	Springfield	Clark	300
Stan's Tire Service	17 S. Yellow Springs	Springfield	Clark	70
<b>Woodgeard</b>	<b>8539 N US 68</b>	<b>Wilmington</b>	<b>Clinton</b>	<b>3000-5000</b>
<b>Beedle</b>	<b>2783 West US Hwy 22 &amp; 3</b>	<b>Wilmington</b>	<b>Clinton</b>	<b>3,000</b>
Sinsley	3544 McCracken Road	Salem	Columbiana	2,500
Jarvis	20949 Steubenville Pike Road	Hammondsville	Columbiana	5,000
Plunkins			Cuyahoga	23,000
<b>Ashland Rd. Recycling</b>	<b>2285 Ashland Road</b>	<b>Cleveland</b>	<b>Cuyahoga</b>	<b>60,000</b>
Lighthawk	440 Greenville-Nashville Rd.	Greenville	Darke	500 or less
Thompson	11239 Cramer Rd.	Versailles	Darke	0
Cassell Homes	760 High Bridge Rd	Vermilion	Erie	
<b>Larry Moore</b>	<b>3330 Hamburg Rd</b>	<b>Lancaster</b>	<b>Fairfield</b>	<b>75</b>
I&O RR	Rt 33	Carroll	Fairfield	150
Jerry's Auto	26076 Co Rd J	Archbold	Fulton	2,000

Site Name	Address	City	County	Estimated Quantity (number of tires)
Franey			Geauga	3,000
<b>Affordable Auto Parts-Wrecking</b>	<b>7071 Ledge Rd</b>	<b>Thompson</b>	<b>Geauga</b>	<b>8,000</b>
Syracuse	3111 Syracuse St.	Cincinnati	Hamilton	300
Oliver St	550 Oliver St	Cincinnati	Hamilton	1,000
<b>Medley</b>	<b>19583 St Rt 31</b>	<b>Mt. Victory</b>	<b>Hardin</b>	<b>2,500</b>
Bennett	14771 CR 209	Kenton	Hardin	150
<b>Martin LF</b>	<b>Hensford Road</b>	<b>Cadiz</b>	<b>Harrison</b>	
Howard's Auto	1085 St Rt 65	Grand Rapids	Henry	3,000
Highlands Nature Conservancy			Highland	
Greenfield			Highland	
New Straitsville Roads			Hocking	
Westmoreland			Lawrence	150
Sullivan			Lawrence	100
Hoar Legend Hills Orchard	11200 Reynolds RD	Utica	Licking	2,000
Barron/A-1 Auto Parts			Mahoning	8,000
North Lima Tire			Mahoning	5,000
Landies			Mahoning	3,000
City of Youngstown	West Avignin	Youngstown	Mahoning	2,000
Rosa Garage	1217 Teamster Dr.	Youngstown	Mahoning	2,000
Santoro		Youngstown	Mahoning	500
Hines Builders	1527 Lytle Road	Troy	Miami	100
Williams Invest. Of Troy LLC	641 S. Union St.	Troy	Miami	550 semi tires
Carpenter			Monroe	4,000
Eaton	14509 Bull Road	Dayton	Montgomery	16,530
Solder's Home	3560 Soldiers Home Rd.	Dayton	Montgomery	20,000
Payne	unknown		Montgomery	500
<b>James C&amp;DD</b>	<b>3935 Boggs Rd.</b>	<b>Zanesville</b>	<b>Muskingum</b>	<b>shreds</b>
Dean's Diesel	1608 US 127	Scott	Paulding	250
Perry Co Rd 23			Perry	
Nelson-Ledges Road Course	10342 SR 305	Garrettsville	Portage	500,000 to 600,000
Kilma Farms	Near US 224/Rt 190 Intersection	Kalida	Putnam	
West	336 Cedar St.	Mansfield	Richland	1,000
Hoffman	435 Piper Rd	Mansfield	Richland	2,000
Geoff	7341 CR 41	Bradner	Sandusky	2,250

Site Name	Address	City	County	Estimated Quantity (number of tires)
Nu-Tire	323 E. State St.	Fremont	Sandusky	2,000
Ernst	722 CR 26	Helena	Sandusky	1,000
Elson	6648 Palstine St.	Pemberton	Shelby	100+
<b>McKenzie-Capps Millerton Road</b>	<b>East of 2308 Millerton St. SE</b>	<b>Canton Township</b>	<b>Stark</b>	<b>4,000</b>
Dyer or Teeter			Stark	2,500
Stark Co.	Unknown address		Stark	50,000
ACE Rubber			Summitt	1,500
Barber Rd Landfill VAP			Summitt	
Jayko/ Dennis Brake	635 SR 88	Brisolville	Trumbull	1,000
St. John	4486 McConnell East Road	Southington	Trumbull	?buried
Stryczny (Mason)	3081 Phalanx Mills Herner Rd	Southington	Trumbull	150 on rim
Mercer (arcross from Baker Trucking)			Vinton	Truck tires
Fout			Vinton	
Remy Salvage			Vinton	
Baker Trucking	56047 CR 17, Pretty Run Road	McAthur	Vinton	
2 large unidentified private sites			Washington	
Slicker	18837 Racine Rd.	Canal Fulton	Wayne	5,000
Weaver	20767 Bradner Rd	Bradner	Wood	3,000

## ATTACHMENT 2

### Scrap Tire Remediation Projects Completed State Fiscal Years 1999 through 2012

NOTES:

- 1) Sites denoted by **bold type** were enforcement Sites subject to cost recovery.
- 2) Total project remediation costs are provided. For some sites, the total cost includes expenditures for removing and disposing of co-mingled solid waste

SITE NAME	COUNTY	PTEs	COST
<b>SFYs 1998-99</b>			
<b>ReGenesis</b>	Summit	4,031,106	\$ 3,231,582.50
<b>Seelig</b>	Clark	860,346	\$ 1,008,251.38
<b>Warsing</b>	Coshocton	2,173,242	\$ 2,421,021.76
<b>Willis</b>	Lawrence	125,591	\$ 321,500.00
<b>COGCO</b>	Mahoning	<u>530,476</u>	<u>\$657,540.00</u>
<b>Total SFYS 1998-1999</b>		<b>7,720,761</b>	<b>\$ 7,639,895.64</b>
<b>SFYs 2000-2006</b>			
<b>KIRBY Tires</b>	Wayndot	18,659,403	\$ 13,927,239.09
SFY 2006-2008			
<b>Kirby Fire Residuals</b>	Wyandot	4,616,709	\$ 18,703,628.00
SFY 2000-2008			
<b>Kirby Water Treatment</b>	Wyandot	20,400,000 gals	<u>\$ 7,300,000.00</u>
<b>Kirby Total</b>		<b>23,276,112</b>	<b>\$ 39,930,867.09</b>
SFY 2003			
<b>Timco</b>	Harrison	484,309	\$ 307,443.37
<b>Kays</b>	Portage	559,376	\$ 382,776.77
<b>Vasi</b>	Lorain	<u>574,232</u>	<u>\$ 420,298.27</u>
<b>SFY 2003 Total</b>		<b>1,617,917</b>	<b>\$ 1,110,518.41</b>
SFY 2004			
<b>McMasters</b>	Portage	1,073,523	\$ 1,514,448.81
<b>SFY 2004 Total</b>		<b>1,073,523</b>	<b>\$ 1,514,448.81</b>
SFY 2005			
<b>Adriatic</b>	Mahoning	176,410	\$ 140,681.06
<b>Benedict-Woosley</b>	Morrow	147,402	\$ 137,354.32
<b>Harr</b>	Scioto	21,304	\$ 492,914.26
<b>Rader</b>	Morrow	<u>504,291</u>	<u>\$ 452,365.75</u>
<b>SFY 2005 Total</b>		<b>849,407</b>	<b>\$ 1,223,315.39</b>
SFY 2006			

<b>SITE NAME</b>	<b>COUNTY</b>	<b>PTEs</b>	<b>COST</b>
<b>Parker</b>	<b>Summit</b>	<b>964,399</b>	<b>\$ 867,052.87</b>
<b>Keller</b>	<b>Auglaize</b>	<b>99,333</b>	<b>\$ 94,830.38</b>
Monroe Co Fairgrounds	Monroe	19,516	\$ 26,918.60
<b>West</b>	<b>Perry</b>	<b>215,870</b>	<b>\$ 192,437.69</b>
<b>Metzler</b>	<b>Muskingum</b>	<b>9,446</b>	<b>\$ 18,696.70</b>
<b>J. Gray</b>	<b>Jackson</b>	<b>2,824</b>	<b>\$ 6,495.36</b>
C. Gray	Belmont	4,337	\$ 7,632.62
<b>Spring Grove Cemetery</b>	<b>Columbiana</b>	<b>28,995</b>	<b>\$ 35,333.25</b>
Bogie	Warren	379	\$ 2,419.37
Cloke	Warren	490	\$ 2,250.24
V. Bressler	Henry	1,134	\$ 6,587.60
B. Bressler	Henry	1,993	\$ 7,790.20
Emig	Coshocton	5,546	\$ 8,898.19
Bowers	Coshocton	1,359	\$ 3,237.37
Red Sea	Coshocton	<u>231</u>	<u>\$ 1,712.31</u>
<b>SFY 2006 Total</b>		<b>1,355,852</b>	<b>\$ 1,282,292.75</b>
<b>SFY 2007</b>			
<b>Crestline</b>	<b>Richland</b>	<b>227,608</b>	<b>\$ 196,721.24</b>
Rothmill	Guernsey	2,734	\$ 8,964.30
LeJuene	Trumbull	896	\$ 6,209.00
<b>Mercer (Part 1)</b>	<b>Jackson</b>	<b>7,247</b>	<b>\$ 25,791.95</b>
Thacker	Jackson	10,944	\$ 17,052.00
Pillsbury	Perry	605	\$ 900.00
<b>Long</b>	<b>Clermont</b>	<b>1,361</b>	<b>\$ 3,933.40</b>
ODNR/ Beaverkettle	Columbiana	1,755	\$ 11,657.87
ODNR/vodrey	Columbiana	1,895	\$ 15,474.08
<b>Moore</b>	<b>Columbiana</b>	<b>71,506</b>	<b>\$ 274,063.45</b>
Pitts	Greene	503	\$ 1,095.56
ODNR Delaware	Delaware	732	\$ 900.00
<b>Abbott</b>	<b>Adams</b>	<b>23,798</b>	<b>\$ 38,148.85</b>
Jenkins	Jackson	506	\$ 5,925.10
Goodnite	Morgan	369	\$ 900.00
Klammer	Lake	1,258	\$ 1,800.00
Ravenna	Portage	19,416	\$ 21,341.00
Wiley	Harrison	<u>8,656</u>	<u>\$ 12,357.60</u>
<b>SFY 2007 Total</b>		<b>381,789</b>	<b>\$ 643,235.40</b>
<b>SFY 2008</b>			
<b>Tsemillies</b>	<b>Columbiana</b>	<b>19,919</b>	<b>\$ 43,138.81</b>
Brewer	Hamilton	903	\$ 2,648.25
<b>Goss Part 1</b>	<b>Muskingum</b>	<b>631,940</b>	<b>\$ 1,279,437.51</b>

SITE NAME	COUNTY	PTEs	COST
Gabbard	Warren	3,418	\$ 5,846.33
<b>Andover</b>	<b>Ashtabula</b>	<b>35,906</b>	<b>\$ 42,559.90</b>
<b>ASTRI</b>	<b>Ashtabula</b>	<b>88,870</b>	<b>\$ 75,132.09</b>
Weaver	Ashtabula	1,273	\$ 1,800.00
Bussel	Hamilton	2,197	\$ 4,293.71
Horner	Portage	7,828	\$ 11,493.71
Logan City	Hocking	640	\$ 900.00
Painesville	Lake	524	\$ 1,200.00
Morley	Warren	1,102	\$ 11,088.67
Morristown	Belmont	1,732	\$ 7,511.40
Congo	Perry	541	\$ 900.00
Lawrence-Scioto	Lawrence	3,816	\$ 8,100.00
Warren Co. Eng.	Warren	3,487	\$ 5,949.07
Ginn	Brown	2,197	\$ 25,160.70
Pinnick	Marion	278	\$ 900.00
Yoak	Warren	3,600	\$ 4,623.40
Garten	Warren	6,234	\$ 10,506.07
Gabbard	Warren	3,418	\$ 5,846.33
Kings Mill Tech Center	Warren	985	\$ 1,807.53
Alexander	Miami	1,340	\$ 2,655.60
Baer	Greene	2,415	\$ 4,906.75
ODNR Meilke Rd	Lucas	1,388	\$ 3,609.87
Nix	Lucas	1,389	\$ 3,609.87
Jenkins III	Lucas	1,389	\$ 3,611.27
Pealer	Jefferson	2,828	\$ 9,100.00
Golder	Hamilton	477	\$ 2,106.55
Hnatiak-Akosi	Ottawa	<u>1,599</u>	<u>\$ 7,238.60</u>
<b>SFY 2008 Total</b>		<b>833,633</b>	<b>\$ 1,587,681.99</b>
<b>SFY 2009</b>			
Keysor Estate	Auglaize	3,117	\$ 35,819.49
Wayne National Forest	Hocking	400	\$ 616.00
Wayne National Forest	Washington	492	\$ 681.78
<b>Mercer Part 2</b>	<b>Jackson</b>	<b>28,987</b>	<b>\$ 74,394.88</b>
<b>Goss Part 2</b>	<b>Muskingum</b>	<b>364,721</b>	<b>\$ 1,902,024.52</b>
<b>Collazo</b>	<b>Ashtabula</b>	<b>6,938</b>	<b>\$ 20,051.08</b>
<b>Orosky</b>	<b>Ashtabula</b>	<b>35,826</b>	<b>\$ 65,077.69</b>
<b>Dials/Meadows/McAfee</b>	<b>Jefferson</b>	<b>7,478</b>	<b>\$ 77,468.12</b>
Witta	Ashtabula	580	\$ 913.95
<b>Naypaver</b>	<b>Trumbull</b>	<b>77,750</b>	<b>\$ 195,912.97</b>
<b>Nichols</b>	<b>Sandusky</b>	<b>92,330</b>	<b>\$ 117,776.10</b>
Carpenter	Brown	1,462	\$ 4,952.50

SITE NAME	COUNTY	PTEs	COST
Milton Twp Trustees	Jackson	335	\$ 517.75
Guilford	Defiance	1,612	\$ 1,819.53
Weiler Fruit Farm/ Goel	Montgomery	2,645	\$ 7,128.16
Garner (Tolliver Estate)	Hocking	5,754	\$ 13,028.46
<b>Ron's Auto Parts &amp; Salvage</b>	<b>Franklin</b>	<b>18,054</b>	<b>\$ 48,138.80</b>
Petersen Estate	Richland	7,770	\$ 9,185.55
Dixon Estate	Ottawa	3,410	\$ 7,166.80
Buffington Estate	Ottawa	6,924	\$ 14,551.37
Skilken Shopping Center	Richland	2,316	\$ 5,297.60
JELM Enterprises	Meigs	1,726	\$ 5,282.50
Franklin Real Estate	Meigs	1,526	\$ 5,032.50
Duff	Meigs	329	\$ 642.31
Salem Twp Trustees	Meigs	1,442	\$ 2,296.63
Lebanon Twp Trustees	Meigs	548	\$ 820.25
Rutland Twp Trustees	Meigs	1,365	\$ 1,859.06
Sun Fish Twp Trustees	Pike	4,595	\$ 8,459.72
Pike Co. Engineer's Office	Pike	870	\$ 1,282.05
Nye Trust	Pike	184	\$ 2,952.40
Damron	Pike	453	\$ 3,248.30
Lee	Pike	1,102	\$ 6,403.32
Shopshear	Jackson	5,710	\$ 24,166.39
Springfield Conservacy District	Clark	417	\$ 628.16
Long (Stewart Hollow Rd)	Pike	488	\$ 3,286.80
Long (Wallace Fork Rd)	Pike	887	\$ 1,294.21
Gilley	Pike	635	\$ 3,448.50
Wilson	Pike	1,448	\$ 4,342.80
Jackson-Grandview Builders	Pike	1,315	\$ 4,682.10
Houghland	Pike	684	\$ 3,502.40
Woods Estate	Pike	1,955	\$ 11,548.79
Howard	Pike	118	\$ 2,879.80
Robbins	Pike	482	\$ 3,280.20
Walters	Pike	222	\$ 2,994.20
Reed	Meigs	852	\$ 4,190.00
Scioto Land Co. (Rapp-Mont)	Pike	802	\$ 8,737.03
Scioto Land Co.(Gravel Hill Rd)	Pike	647	\$ 3,461.70
Scioto Land Co. (McCoy Rd)	Pike	778	\$ 3,605.80
Scioto Land Co. (Meadow Run)	Pike	508	\$ 3,308.90
Scioto Land Co. (Wiskey Run RD)	Pike	462	\$ 3,258.20
Legg	Pike	257	\$ 3,032.70
Stapleton Estate	Pike	1,138	\$ 4,001.80
Van Meter	Pike	217	\$ 815.16
Fish	Pike	831	\$ 3,664.10

SITE NAME	COUNTY	PTEs	COST
Adkins	Pike	1,026	\$ 3,878.60
AEP/Franklin Real Estate	Vinton	528	\$ 3,330.80
Scoredos	Vinton	112	\$ 2,873.20
Zimmerman	Ross	629	\$ 3,441.90
Ward & KAM KID Inc	Ross	403	\$ 3,193.30
Paige	Ross	416	\$ 3,207.60
McKell	Ross	703	\$ 3,523.30
ODNR Scioto Trails State Forest	Ross	968	\$ 3,814.80
Colerain Twp Trustees	Ross	1,379	\$ 1,975.99
RPHF SWMD	Ross	534	\$ 711.81
Arnett	Miami	2,730	\$ 7,898.09
ODNR Coalton Wildlife Area	Jackson	1,532	\$ 4,032.00
Kille	Jackson	3,740	\$ 9,464.05
Hensley	Jackson	4,930	\$ 8,430.00
Scioto Land Co (Erwin Hollow RD)	Jackson	286	\$ 2,786.00
Scioto Land Co.(Slate Cut RD)	Jackson	574	\$ 3,074.00
Scioto Land Co. SR 788 S)	Jackson	957	\$ 3,457.00
Fowler	Jackson	957	\$ 3,457.00
DeCastro	Jackson	176	\$ 1,426.00
Robinson	Jackson	469	\$ 3,969.00
Kunz	Jackson	212	\$ 2,712.00
Short	Jackson	807	\$ 3,307.00
Morgan-Haley	Jackson	137	\$ 2,637.00
Scioto Land Co. (Doles Cemetery RD)	Jackson	160	\$ 2,660.00
Britton	Jackson	341	\$ 1,591.00
Carter Webb	Jackson	399	\$ 1,649.00
Patterson	Jackson	466	\$ 2,966.00
Powell	Jackson	397	\$ 1,647.00
Henderson	Jackson	351	\$ 2,851.00
Jackson Co. Holdings, Inc.	Jackson	390	\$ 2,890.00
Graham	Jackson	196	\$ 2,696.00
Moore	Scioto	846	\$ 4,349.80
Montavon	Scioto	589	\$ 4,015.70
Derr/Kelly	Huron	708	\$ 836.22
Coyle	Scioto	1,242	\$ 5,429.71
Norton	Jackson	5,891	\$ 8,391.00
Lester (Byer Tire Dump)	Jackson	5,246	\$ 13,065.68
Shephard	Jackson	7,360	\$ 12,074.80
Heartwood Forestland Group, LLC	Vinton	191	\$ 466.57
JELM Enterprises	Vinton	366	\$ 3,152.60
Crabtree	Jackson	315	\$ 2,815.00

SITE NAME	COUNTY	PTEs	COST
Maysville Water District	Muskingum	7,176	\$ 14,181.86
Lambert	Muskingum	1,174	\$ 4,041.40
Muench	Licking	1,101	\$ 3,601.00
Fitzgerald	Licking	2,029	\$ 2,218.85
US Forest Service	Perry	838	\$ 1,259.17
Hagan/Reichley	Perry	639	\$ 786.89
McCalla	Ross	2,404	\$ 5,394.40
Nierman	Morgan	523	\$ 2,304.90
Shirey	Morgan	705	\$ 2,541.50
Fisher Estate	Franklin	3,502	\$ 4,076.30
Ward Twp. Trustees	Hocking	2,341	\$ 573.82
Marion Twp. Trustees	Hocking	499	\$ 686.79
Holmes Limestone	Coshocton	1,222	\$ 4,652.50
Grove	Coshocton	15,940	\$ 27,307.50
Bailey	Coshocton	382	\$ 685.38
Wuebold	Adams	650	\$ 3,937.50
Lawrence-Scioto SWMD	Lawrence	3,540	\$ 4,161.30
<b>SFY 2009 Total</b>		<b>798,218</b>	<b>\$ 2,987,490.46</b>
<b>SFY 2010</b>			
<b>Bishop</b>	<b>Butler</b>	<b>126,546</b>	<b>\$ 219,960.07</b>
<b>Davis</b>	<b>Mahoning</b>	<b>12,130</b>	<b>\$ 33,466.32</b>
Lipscomb	Columbiana	737	\$ 3,781.00
Swayne	Adams	1,586	\$ 8,272.19
Carthage Twp Trustees	Athens	495	\$ 683.93
Rome Twp Trustees	Athens	122	\$ 417.23
Watson	Jackson	2,489	\$ 7,521.70
Arthur Family Trust	Jackson	455	\$ 2,955.00
Jewell	Jackson	382	\$ 2,882.00
Williams Co Engineers Office	Williams	665	\$ 1,341.93
Dye	Athens	259	\$ 515.19
Winding Creek Apts	Franklin	205	\$ 433.25
Ward	Athens	427	\$ 635.31
ODNR Waterloo	Athens	986	\$ 1,364.99
City of Campbell	Mahoning	448	\$ 650.32
Hughes	Franklin	118	\$ 376.70
Trimble Twp Trustees	Athens	578	\$ 743.27
Scioto-Lawrence SWMD	Lawrence	2,745	\$ 3,099.53
Harrington/Fields	Champaign	17,283	\$ 12,228.75
Nibert Estate	Gallia	162	\$ 506.63
Messer	Gallia	173	\$ 515.56
Wayne NF Gallia -	Gallia	275	\$ 3,468.75

SITE NAME	COUNTY	PTEs	COST
Bryant	Gallia	621	\$ 879.56
Stock	Columbiana	1,438	\$ 3,938.00
Clay	Trumbull	3,166	\$ 3,557.90
Scioto-Lawrence SWMD	Scioto	2,721	\$ 3,079.25
Scioto-Lawrence	Lawrence	2,490	\$ 2,884.05
Minton	Vinton	219	\$ 2,990.90
East	Vinton	323	\$ 3,105.30
Yeley	Jackson	361	\$ 2,861.00
Baker	Vinton	520	\$ 3,322.00
Rutland Twp Trustees 2	Meigs	1,881	\$ 2,653.31
Salem Twp Trustees 2	Meigs	1,279	\$ 1,789.19
ODNR Maumee State Forest	Fulton	623	\$ 951.68
US Bank (Jones)	Van Wert	305	\$ 647.13
Blake	Meigs	369	\$ 3,586.25
Day	Meigs	200	\$ 537.50
Payne	Meigs	78	\$ 3,222.50
Stowers	Gallia	2,780	\$ 6,600.00
Ratliff	Jackson	1,831	\$ 15,569.50
Preston	Jackson	618	\$ 3,118.00
Nottingham	Gallia	10,677	\$ 22,236.63
RPHF SWMD	Ross	986	\$ 1,364.99
ODNR Pike State Forest	Pike	1,407	\$ 1,666.01
Knisley	Pike	202	\$ 2,972.20
Ware	Hamilton	931	\$ 4,059.65
Hubbard	Trumbull	2,156	\$ 9,192.18
Oboy	Carroll	879	\$ 3,379.00
Neihart	Pike	855	\$ 3,690.50
Bartley	Brown	232	\$ 563.50
Stanton	Pickaway	2,978	\$ 8,177.90
Ketchem	Columbiana	26,766	\$ 71,356.60
AEP (Franklin Real Estate Co)	Morgan	4,994	\$ 7,339.93
Price	Columbiana	1,173	\$ 4,306.00
Jackson Co Commissoiners	Jackson	594	\$ 686.10
Appalachia Ohio Alliance	Athens	1,354	\$ 1,628.11
AEP Crooked Tree	Noble	1,354	\$ 5,010.20
Brooks	Morrow	3,162	\$ 7,544.90
Cole	Meigs	136	\$ 3,295.00
Dorsey	Meigs	647	\$ 3,933.75
Stover	Jackson	538	\$ 3,038.00
Alexander Twp	Athens	810	\$ 909.15
Trimble Twp Trustees	Athens	958	\$ 1,014.97
Spirit Life Church	Montgomery	713	\$ 992.49

SITE NAME	COUNTY	PTEs	COST
Carter	Jackson	818	\$ 6,135.95
Retzloff	Meigs	1,910	\$ 5,512.50
JELM 2 Enterprises	Meigs	607	\$ 5,401.25
Marion Twp Trustees	Hocking	2,242	\$ 2,263.03
Slone	Jackson	267	\$ 11,082.35
Springfield Conservation Dist 2	Clark	5,389	\$ 39,735.30
<b>ORPNF</b>	<b>Butler</b>	<b>2,619</b>	<b>\$ 9,300.77</b>
Guersney Co CDC	Guernsey	979	\$ 1,170.44
Adkins	Gallia	4,675	\$ 7,496.25
Adkins Parcel 2	Gallia	5,974	\$ 9,120.00
Wayne NF 2010 - Paddle Creek	Lawrence	416	\$ 741.52
Wayne NF 2010 - Athens Dist Garage	Athens	422	\$ 631.73
Rome Twp 2 Trustees	Athens	423	\$ 632.45
Carthage Twp 2 Trustees	Athens	185	\$ 462.28
Vinton Co Commissioners	Vinton	1,204	\$ 1,190.86
Jackson City	Jackson	3,369	\$ 2,789.85
Miller Lumber	Tuscarawas	7,967	\$ 5,696.41
Milton Twp 2	Jackson	779	\$ 806.35
<b>Kerns</b>	<b>Scioto</b>	<b>5,839</b>	<b>\$ 14,090.70</b>
Petrus	Ashtabula	368	\$ 727.92
<b>Tarr</b>	<b>Stark</b>	<b>1,785</b>	<b>\$ 4,285.00</b>
<b>SFY 2010 Total</b>		<b>303,828</b>	<b>\$ 668,743.31</b>
<b>SFY 2011</b>			
Brammer	Scioto	18,615	\$ 34,806.63
Delabar CSTA	Scioto	3,220	\$ 15,401.10
<b>Delabar</b>	<b>Scioto</b>	<b>47,944</b>	<b>\$ 151,747.51</b>
Malta	Morgan	3,206	\$ 3,489.07
Pike Co Engineer 2	Pike	2,093	\$ 2,816.50
ODNR Wolf Creek Wildlife	Athens	1,111	\$ 1,454.37
Lodi Twp Trustees	Athens	964	\$ 1,019.26
Dover Twp Trustees	Athens	443	\$ 646.75
Green Twp Trustees	Hocking	951	\$ 1,009.97
Oak Openings Conservancy	Lucas	456	\$ 805.14
Sullivan	Lucas	568	\$ 14,418.00
Brown	Hamilton	163	\$ 360.60
Whitton Container, Inc.	Hamilton	134	\$ 296.45
<b>ORPNF II</b>	<b>Butler</b>	<b>211</b>	<b>\$ 466.80</b>
Hayes	Muskingham	564	\$ 733.26
Howard	Muskingham	563	\$ 732.55
Dinges	Muskingham	2,453	\$ 2,083.90

SITE NAME	COUNTY	PTEs	COST
Karch	Muskingham	2,346	\$ 2,337.39
City of Logan 2	Hocking	470	\$ 666.05
Good Hope Twp Trustees	Hocking	889	\$ 1,295.64
Verhovec	Jefferson	849	\$ 8,062.25
Kakascik	Jefferson	11,049	\$ 32,412.25
Whinnery	Jefferson	5,529	\$ 10,036.25
ShortCreek Sportsman's Club	Jefferson	2,790	\$ 11,614.25
Hilaras	Preble	2,256	\$ 6,182.80
Liva	Jefferson	413	\$ 710.56
Knox Twp Trustees	Jefferson	353	\$ 661.81
Swepston	Jackson	147	\$ 2,647.00
Frisby	Jackson	1,495	\$ 3,995.00
Buell	Harrison	1,258	\$ 4,133.80
Williams	Vinton	1,395	\$ 4,284.50
Gillum	Jackson	469	\$ 2,969.00
Carter, B.	Jackson	507	\$ 3,007.00
Carter, T.	Jackson	416	\$ 2,916.00
Ruthland Twp Trustees 3	Meigs	1,202	\$ 1,726.63
Springfield Conservancy District	Clark	344	\$ 575.96
MWCD Tappen Lake	Harrison	1,286	\$ 1,579.50
MWCD Seneca Lake	Guernsey	738	\$ 974.63
MWCD Charles Mill Lake	Ashland	422	\$ 631.73
York Twp Trustees	Athens	317	\$ 556.66
Athens Twp Trustees	Athens	218	\$ 485.87
Cattee	Jackson	426	\$ 576.90
Deerwood 8 Properties	Athens	672	\$ 3,489.20
B&N Coal, Inc.	Washington	1,813	\$ 4,744.30
Craddock	Gallia	2,456	\$ 6,195.00
DeJametta	Washington	712	\$ 3,533.20
King	Meigs	139	\$ 487.94
Spencer	Gallia	1,113	\$ 1,654.31
Trimble Twp Trustees 3	Athens	2,048	\$ 2,784.33
RPHF SWMD 3	Ross	967	\$ 1,351.41
ODNR Coalton WA 2	Jackson	453	\$ 2,953.00
Clark	Hamilton	305	\$ 674.75
Akison	Franklin	364	\$ 536.60
Stober	Clermont	644	\$ 1,324.18
Ponchak	Morgan	639	\$ 929.96
AEP Recreation	Morgan	500	\$ 812.50
Mullins	Gallia	518	\$ 795.88
Wayne National Forest 3	Lawrence	1,553	\$ 5,619.34
AEP- Hamley Run	Athens	357	\$ 3,142.70

SITE NAME	COUNTY	PTEs	COST
Lee Township Trustees	Athens	1,718	\$ 2,218.37
Rome Township Trustees	Athens	2,918	\$ 3,406.37
AEP Braodway Substation	Union	1,040	\$ 3,894.00
Johnson	Athens	637	\$ 3,450.70
Perry Township Trustees	Hocking	3,012	\$ 1,602.31
Dover Twp Trustees	Athens	1,125	\$ 1,464.38
Marion Twp Trustees	Hocking	3,553	\$ 4,850.40
OH DODD	Gallia	1,049	\$ 1,602.31
Frazier	Jackson	737	\$ 3,237.00
Reed	Jackson	240	\$ 2,740.00
Scioto Land Company (Hickory Ridge)	Jackson	231	\$ 2,731.00
Allen	Jackson	8,226	\$ 13,226.00
Friends of Muskingum River	Washington	654	\$ 5,669.40
Gillenwater	Gallia	131	\$ 4,762.50
Buckeye Furnace Mining Co	Jackson	1,055	\$ 3,555.00
Wells, Grambling & Johnson	Athens	287	\$ 3,065.70
Balitmore Village	Fairfield	307	\$ 879.51
Groffre Invenstments	Stark	194	\$ 2,694.00
Thouvenin	Stark	242	\$ 2,742.00
Gleason	Morgan	367	\$ 3,727.10
Stover	Vinton	255	\$ 3,030.50
Wilcox	Stark	9,377	\$ 16,917.00
Wagner	Carroll	511	\$ 3,011.00
Passmore	Belmont	799	\$ 3,628.90
Brake	Trumbull	3,264	\$ 5,764.00
Martin Estate	Erie	3,412	\$ 7,685.60
Colerain Twp Trustees	Ross	1,664	\$ 2,179.76
<b>SFY 2011 Total</b>		<b>183,501</b>	<b>\$ 492,090.70</b>
<b>SFY 2012</b>			
<b>Tabler</b>	<b>Stark</b>	<b>4,219</b>	<b>\$ 7,721.50</b>
Adams Clermont SWMD	Clermont	829	\$ 1,090.51
Wayne National Forest	Athens	396	\$ 613.14
Salt Creek Twp Trustees	Hocking	2,450	\$ 3,071.75
Stahl	Sandusky	1,375	\$ 6,425.00
Coe	Fayette	1,858	\$ 2,318.47
Hamilton	Ashtabula	1,059	\$ 4,804.65
Null	Vinton	317	\$ 3,098.70
Cincinnati Public Service Dept	Hamilton	2,616	\$ 5,787.38
Gatrell	Guernsey	2,709	\$ 3,701.06
McKinley Development Corp	Stark	2,318	\$ 7,176.00
East Cleveland City	Cuyahoga	2,897	\$ 2,731.36

SITE NAME	COUNTY	PTEs	COST
Allen	Hamilton	1,086	\$ 2,402.56
Adams Clermont 2 SWMD	Adams	2,427	\$ 2,721.94
York Twp Trustees 2	Athens	587	\$ 749.71
RPHF SWMD 4	Ross	796	\$ 1,229.14
Burlington-Fayette Twp VFD	Lawrence	1,296	\$ 1,875.12
Parsons	Lucas	6,523	\$ 12,181.05
Gillette	Athens	348	\$ 578.82
Jones	Miami	200	\$ 537.50
Hatfield	Wayne	276	\$ 4,492.80
ODOT SR 21	Wayne	751	\$ 4,388.85
Pittenger	Jackson	1,279	\$ 3,779.00
Vetter 1	Jackson	3,286	\$ 8,286.00
Ward Twp Trustees	Hocking	784	\$ 890.56
ODNR Wolf Creek	Athens	1,127	\$ 1,465.81
Brown	Athens	578	\$ 3,385.80
Sarazin	Morrow	4,319	\$ 12,726.62
Gray	Ross	1,473	\$ 6,570.30
VanMeter	Gallia	982	\$ 4,352.50
PBM Riverbend Dev. LLC	Butler	362	\$ 2,800.85
City of Campbell 2	Mahoning	2,013	\$ 2,429.30
MWCD 2 Seneca Lake	Guernsey	422	\$ 983.00
HOF Fitness Center	Stark	222	\$ 627.50
Coen	Stark	183	\$ 578.75
RSS Enterprises	Stark	138	\$ 522.50
Lodi Twp Trustees 2	Athens	901	\$ 2,051.50
Scioto Land Co. (Ervin Hill Rd)	Pike	583	\$ 3,874.50
Smith	Jackson	428	\$ 3,642.00
ODNR Coalton WA 2-A	Jackson	412	\$ 3,618.00
Marion Twp Trustees 4	Hocking	219	\$ 678.50
Arce	Wyandot	1,859	\$ 6,439.15
Lawrence-Scioto SWMD	Scioto	1,948	\$ 3,622.00
Scioto Land Co. (Latham Hill Rd 2)	Pike	295	\$ 3,442.50
Oster Sand& Gravel	Stark	2,592	\$ 6,590.00
Linden Neighborhood	Franklin	516	\$ 1,445.00
AEP Rec Area 2	Morgan	469	\$ 1,053.50
Marlow	Morgan	275	\$ 3,412.50
Gallia Co. Health Dept.	Gallia	1,327	\$ 2,690.50
Stewart	Gallia	1,028	\$ 2,242.00
Henderson	Athens	1,123	\$ 4,684.50
Elliott	Gallia	803	\$ 4,204.50
Milton Twp Trustees 3	Jackson	441	\$ 1,011.50
NTPRD, Springfield	Clark	698	\$ 1,501.70

<b>SITE NAME</b>	<b>COUNTY</b>	<b>PTEs</b>	<b>COST</b>
Adams-Clermont SWMD 3	Adams	3,234	\$ 6,251.00
Howard	Jackson	7,378	\$ 23,831.70
Carthage Twp Trustees 3	Athens	682	\$ 1,373.00
Wayne NF 4B	Athens	280	\$ 770.00
Griffith	Meigs	281	\$ 771.50
Harper	Athens	808	\$ 4,212.00
Blackstone	Hocking	732	\$ 4,098.00
Licking Co Recycling Center	Licking	948	\$ 1,885.00
Wayne NF 5	Lawrence	681	\$ 4,021.50
Wayne NF 5-A	Lawrence	930	\$ 4,395.00
RL DeVillie Enterprises LTD	Stark	126	\$ 507.50
St. Clair Twp Trustees	Butler	652	\$ 1,434.40
Ihle	Meigs	245	\$ 717.50
Williams	Pike	644	\$ 1,316.00
Klempa	Belmont	497	\$ 1,095.50
Ohio River Several parcels	Scioto	13,074	\$ 88,498.22
Black Estate	Greene	1,406	\$ 5,319.50
Scaggs	Guernsey	811	\$ 4,216.50
Muskingum Co Commisioners	Muskingum	1,318	\$ 2,677.00
Reichley	Perry	280	\$ 3,420.00
Coshocton South 6th Street	Coshocton	376	\$ 3,564.00
Waterloo Twp Trustees 2	Athens	509	\$ 1,113.50
Trimble Twp Trustees 4	Athens	1,635	\$ 3,502.50
<b>SFY 2012 Total</b>		<b>107,945</b>	<b>\$ 354,290.17</b>
<b>Total</b>		<b>38,502,486</b>	<b>\$59,434,870.12</b>

## ATTACHMENT 3

### Largest (by volume) Ohio Scrap Tire Transporters and Facilities Based on Calendar Year 2011 Annual Report Data

Name of Business	County	Tons
<b>REGISTERED SCRAP TIRE TRANSPORTERS</b>		
Liberty Tire Service of Ohio	Franklin	61,589.05
Entech Inc.	(Out-of-State: Michigan)	41,845.89
Lightner Tire Company	Summit	10,635.30
Rumpke Transportation Co., LLC	Hamilton	10,426.44
Enviro Tire Recycling	Wood	8,787.26
Deerpath Recyclers Inc	(Out-of-State: Michigan)	6,593.28
Campbell Scrap Tire Company	Muskingum	4,356.25
Porter Tire Center Inc	(Out-of-State: Kentucky)	4,008.40
R Willig Tire Distribution Inc.	Summit	3,949.59
Fred's Tires	Delaware	2,940.25
<b>Total (10 of 68 Transporters)</b>		155,131.70 (56%)
<b>LICENSED SCRAP TIRE FACILITIES</b>		
Liberty Grove City	Franklin	44,929.37
Liberty Minerva	Stark	34,508.17
Rumpke	Butler	14,333.48
Liberty Monofill	Stark	13,104.61
Genesis	Wayne/Crawford	6,767.67
Campbell	Muskingum	4,562.64
Pike	Pike	1,923.81
Sundown Tire	Pike	1,562.04
Henry County Landfill	Henry	867.84
Montgomery County STC	Montgomery	463.92
<b>Total (10 of 33 Facilities)</b>		123,023.55 (99%)

## ATTACHMENT 4

### Department of Development Scrap Tire Loans and Grants State Fiscal Years 1995 Through 2001<sup>1</sup>

Date	Borrower	Ohio County	Amount	Status	Purpose Of Loan
6/5/95	National Feedscrew & Machining, Inc.	Stark	\$250,000	Disbursed	Machinery & equipment
9/5/95	Ottawa/Sandusky/Seneca Joint Solid Waste Management District	Ottawa Seneca, Sandusky	\$125,000	Disbursed	Demonstration project
3/4/96	FIFO Manufacturing Company	Vinton	\$ 40,000	Disbursed	Machinery & equipment
7/8/96	C & E Coal, Inc.	Cuyahoga	\$250,000	Disbursed	Machinery and equipment
8/26/96	Ashland County Solid Waste Dist. I	Ashland	\$175,000	Disbursed	Demonstration project
10/7/96	Renewable Energy Products, Inc.	Stark	\$250,000	Disbursed	Machinery & equipment
3/2/98	NFM/Welding Engineers, Inc.	Stark	\$800,000	Disbursed	Machinery & equipment
7/27/98	Ashland County Solid Waste Dist. II	Ashland	\$481,000	Disbursed	5 running tracks
9/28/98	Elida Local Schools	Allen	\$159,315	Disbursed	3 Facilities - resurfacing projects
11/9/98	CFLP Solid Waste District	Licking	\$ 85,676	Disbursed	Rebuild a running track
12/7/98	Avon Local Board of Education	Lorain	\$ 52,506	Disbursed	Running track
12/7/98	Ottawa/Sandusky/Seneca Joint Solid Waste Management District	Sandusky	\$250,000	Disbursed	Road construction/resurfacing
1/4/99	Lucas County Solid Waste Management District	Lucas	\$500,000	Disbursed	Pave Lucas County Recreation Center parking area
1/25/99	Newark Catholic High School	Licking	\$126,949	Disbursed	Running track and rubberize walkways
1/25/99	Cloverleaf Local Schools	Medina	\$113,032	Disbursed	Track, rubberized sports areas & walkways
1/25/99	Columbus Grove Local Schools	Putnam	\$ 79,250	Disbursed	Running track
2/22/99	North Fork Local School District	Licking	\$ 94,740	Disbursed	Running track & resurfacing other sports

<sup>1</sup> Table originally published in Ohio EPA, *Scrap Tire Management in Ohio: Report to the General Assembly*, Table 5-7 Department of Development Scrap Tire Loans/Grants: SFYs 1995 to 2001, August 2007, pp. 41-45.

Date	Borrower	Ohio County	Amount	Status	Purpose Of Loan
					areas
2/22/99	Lima City Schools	Allen	\$194,500	Disbursed	Running track and football field
2/22/99	Pleasant Local Schools	Marion	\$144,240	Disbursed	Running track
3/29/99	New Bremen Local Schools	Auglaize	\$102,868	Disbursed	Running track
2/22/99	Western Reserve Local School District	Mahoning	\$115,250	Disbursed	Running track
3/29/99	Warren Local School District	Trumbull	\$215,900	Disbursed	Running tracks, tennis courts & a basketball court
3/29/99	C & E Coal, Inc. II	Columbiana	\$250,000	Disbursed	Mobile shredder
3/29/99	Tri-Valley Local Schools	Muskingum	\$ 67,736	Disbursed	Running track
3/29/99	Firelands Local School District	Lorain	\$100,000	Disbursed	Running track
3/29/99	Jefferson Local Schools / West Jefferson High School	Madison	\$180,000	Disbursed	Running track, jump/pole vault areas, tennis courts
3/29/99	Smithfield Township Board of Trustees	Jefferson	\$194,001	Disbursed	Road improvements
4/26/99	American Scrap Tire Recyclers, Inc.	Ashtabula	\$190,000	Disbursed	Scrap tire shredding equipment
4/26/99	Northridge Athletic Boosters of Licking County, Ohio, Inc.	Licking	\$ 90,028	Disbursed	Improve a track & associated field event sites
4/26/99	Ravenna City School District	Portage	\$250,000	Disbursed	Construct football field, track and nature trails
4/26/99	Summit/Akron Solid Waste Management Authority	Summit	\$406,829	Disbursed	Surface tracks at three area schools
4/26/99	Brecksville-Broadview Heights City Schools	Cuyahoga	\$ 66,103	Disbursed	Running/walking track & playgrounds
4/26/99	Franklin Monroe Local Schools	Darke	\$ 64,450	Disbursed	Running/walking track
4/26/99	Johnstown-Monroe Local Schools	Licking	\$147,503	Disbursed	Resurface parking lot & running/walking track
4/26/99	Licking Valley Local School District	Licking	\$ 76,500	Disbursed	Resurface a running/walking track
4/26/99	Perry Local Schools	Allen	\$ 92,250	Disbursed	Running/walking track
3/31/00	Ridgewood Local School District	Coshocton	\$ 52,631	Disbursed	Running/walking track
5/9/00	Otsego Community Sports Complex, Privately Funded	Wood	\$ 52,631	Disbursed	Athletic complex at Our Lady of the Elms School
5/12/00	Marion Local School District	Mercer	\$ 52,631	Pmt. Rqstd	Construct an all-weather, running/walking

Date	Borrower	Ohio County	Amount	Status	Purpose Of Loan
					track
5/13/00	Washington-Nile Local School District	Scioto	\$ 52,631	Disbursed	Surface a track, 4 tennis courts & 2 playgrounds
5/13/00	Tiffin City Board of Education	Seneca	\$ 52,631	Disbursed	Install synthetic field and track surfaces
5/13/00	Summit/Akron Solid Waste Auth. (Our Lady of the Elms Project)	Summit	\$ 52,631	Disbursed	Construct a running/walking track
5/15/00	Lorain City Schools	Lorain	\$ 52,631	Disbursed	Replace an existing running track
5/15/00	Lucas County	Lucas	\$ 52,631	Agreement	Build a french-drain, back-filled area using scrap tire chips
5/16/00	Continental Local Schools	Putnam	\$ 52,631	Disbursed	Running track and 4 tennis courts
5/18/00	United Local School District	Columbiana	\$ 52,631	Disbursed	Renovate a 6-lane 1/4 mile running/walking track
5/18/00	Columbiana Exempted Village Schools	Columbiana	\$ 52,631	Disbursed	Running/walking track
5/18/00	Fairborn City Schools	Greene	\$ 52,631	Disbursed	Replace a cinder track, reconstruct 2 existing tracks
5/18/00	Crooksville Exempted Village School	Perry	\$ 52,631	Disbursed	Construct an 8-lane 1/4 mile running/walking track
5/19/00	Mahoning County	Mahoning	\$ 52,631	Agreement	Backfill around an 8-inch PVC sewer pipe
5/19/00	East Canton Community Sports Complex Committee	Stark	\$ 52,631	Disbursed	Construct a regulation size running/walking track
5/19/00	Newton Falls Exempted Village Schools	Trumbull	\$ 52,631	Disbursed	Construct an 8-lane all-weather track
5/29/00	Howland Local School District	Trumbull	\$ 52,631	Disbursed	Track, surface school playgrounds & a walking path
5/29/00	Louisville City School District	Stark	\$ 49,637	Disbursed	Build a school/community track, crumb dressing on high-traffic grass areas
11/6/00	Crestview Local School District	Ashland	\$ 23,000	Agreement	Resurface an elementary playground
11/7/00	Parkworks, Inc.	Cuyahoga	\$108,000	Disbursed	Build school playgrounds with rubberized surface

Date	Borrower	Ohio County	Amount	Status	Purpose Of Loan
11/7/00	Durable Corporation	Huron	\$ 73,000	Disbursed	Machinery to process scrap into saleable product
11/7/00	Children's Hospital, Center for Injury Research & Policy	Franklin	\$150,000	Disbursed	Resurface 14 high-use playgrounds in low-income, inner-city Columbus neighborhoods
11/7/00	Clark County Combined Health District	Clark	\$ 27,000	Agreement	Tire chips as alternative fill for leaching lines for 6 residential septic system projects
11/7/00	North Central Local Schools	Williams	\$ 72,000	Disbursed	Build a track, fencing, storm sewers & seeding, infrastructure drainage excavation, fees
11/7/00	Henry County Commissioners	Henry	\$ 90,000	Disbursed	Buy machinery & equip. and a pole barn for equip. storage and tire processing
11/7/00	Ripley Union Lewis Huntington School District	Brown	\$102,999	Disbursed	Playground surface, new track & field center
11/7/00	Vinton County High School	Vinton	\$100,000	Disbursed	Build a new running/walking track
12/5/00	Ridgemont Local Schools	Hardin	\$ 60,000	Disbursed	Build a track and field, crumb dressing for new playing field
<b>Total Number of Grants &amp; Loans</b>		<b>67</b>	<b>Total Grant &amp; Loan Amount</b>		<b>\$8,750,625</b>

## ATTACHMENT 5

### Ohio Department of Natural Resources Market Development Grants State Fiscal Years 2002 through 2012

SCRAP TIRE GRANTEE	COOPERATING ENTERPRISE	COUNTY	PURPOSE	GRANT \$ SPENT	TIRES USED
<b>2002</b>					
Brown County SWMA	Rumpke Consolidated Comp., Inc.	Brown	Processing	\$ 295,854.00	1,500,000
Cuyahoga County SWD	GroundScape Technologies, LLC	Cuyahoga	Manufacturing	\$ 250,000.00	1,090,000
Summit/Akron SWMA	Akron Thermal, LP	Summit	Tire Derived Fuel	\$ 310,000.00	1,095,000
<b>SFY 02 Total</b>				<b>\$ 855,854.00</b>	<b>3,685,000</b>
<b>2003</b>					
SouthEastern Ohio JSWMD	Campbell Scrap Tire Co.	Muskingum	Processing	\$ 200,000.00	1,027,400
Summit/Akron SWMA	Akron Thermal, LP	Summit	Tire Derived Fuel	\$ 159,399.98	1,000,000
<b>SFY 03 Total</b>				<b>\$ 359,399.98</b>	<b>2,027,400</b>
<b>2004</b>					
Cuyahoga County SWD	GroundScape Technologies, LLC	Cuyahoga	Manufacturing	\$ 275,000.00	1,000,000
Stark-Tusc-Wayne JSWMD	Liberty Tire Services of OH, LLC	Stark	Processing	\$ 350,000.00	1,400,000
<b>SFY 04 Total</b>				<b>\$ 625,000.00</b>	<b>2,400,000</b>
<b>2005</b>					
Auglaize County SWMD	Midwest Elastomers	Auglaize	Processing	\$ 150,000.00	150,000
FHPR JSWMD	Mead Westvaco Corp.	Ross	Tire Derived Fuel	\$ 350,000.00	1,200,000
Lucas County SWMD	Seneca Petroleum Company	Lucas	Ground Tire Rubber	\$ 150,000.00	150,000

SCRAP TIRE GRANTEE	COOPERATING ENTERPRISE	COUNTY	PURPOSE	GRANT \$ SPENT	TIRES USED
SWACO	Liberty Tire Services	Franklin	Processing	\$ 350,000.00	1,200,000
<b>SFY 05 Total</b>				<b>\$ 1,000,000.00</b>	<b>2,700,000</b>
<b>2006</b>					
Ashtabula County SWD	Iten Industries, Inc.	Ashtabula	Manufacturing	\$ 251,632.00	1,030,000
Boardman Township (Mahoning County)		Mahoning	Ground Tire Rubber	\$ 100,000.00	1,500
Cuyahoga County SWD	GroundScape Technologies, LLC	Cuyahoga	Manufacturing	\$ 250,000.00	960,000
Diocese of Columbus, Board of Education		Franklin	Ground Tire Rubber	\$ 100,000.00	4,600
Greene County SWMD	CEMEX (Fairborn)	Greene	Tire Derived Fuel	\$ 350,000.00	1,600,000
Lucas County SWMD		Lucas	Ground Tire Rubber	\$ 42,000.00	400
Northern Local School District - Sheridan H.S. (Perry Co.)		Perry	Ground Tire Rubber	\$ 90,779.00	3,200
Northwood, City of (Wood County)		Wood	Ground Tire Rubber	\$ 100,000.00	1,000
Summit/Akron SWMA	ARMEX, Inc.	Summit	Manufacturing	\$ 34,000.00	500
Valley Local School District (Scioto County)		Scioto	Ground Tire Rubber	\$ 33,574.00	400
Wood County SWD		Wood	Processing	\$ 100,000.00	3,100
<b>SFY 06 Total</b>				<b>\$ 1,451,985.00</b>	<b>3,604,700</b>
<b>2007</b>					
Allen County		Allen	Ground Tire Rubber	\$ 100,000.00	2,000
CCH SWD	Norris Environmental	Carroll	Manufacturing	\$ 100,000.00	250,000
Columbus, City of		Franklin	Processing	\$ 16,875.00	913
Franklin County		Franklin	Ground Tire Rubber	\$ 91,698.00	2,967
Hamilton, City of		Butler	Ground Tire Rubber	\$ 7,050.00	880

SCRAP TIRE GRANTEE	COOPERATING ENTERPRISE	COUNTY	PURPOSE	GRANT \$ SPENT	TIRES USED
Keystone Local Schools		Lorain	Ground Tire Rubber	\$ 81,715.00	4,842
Muskingum Valley Park District		Muskingum	Ground Tire Rubber	\$ 100,000.00	2,250
SouthEastern Ohio JSWMD	TTI of Ohio, LLC	Washington	Processing	\$ 350,000.00	1,200,000
<b>SFY 07 Total</b>				<b>\$ 847,338.00</b>	<b>1,463,852</b>
<b>2008</b>					
Berlin Township		Mahoning	Ground Tire Rubber	\$ 150,000.00	21,200
Carrollton, Village		Carroll	Ground Tire Rubber	\$ 100,000.00	16,000
Columbus, City of		Franklin	Ground Tire Rubber	\$ 75,000.00	30,000
DKMM SWMD		Delaware	Ground Tire Rubber	\$ 150,000.00	3,132
Holmes County Engineer		Holmes	Ground Tire Rubber	\$ 150,000.00	6,500
Logan County Engineer		Logan	Ground Tire Rubber	\$ 150,000.00	37,480
Muskingum County Engineer		Muskingum	Ground Tire Rubber	\$ 150,000.00	15,960
North Central Ohio SWD		Madison	Ground Tire Rubber	\$ 74,723.00	1,500
Pickaway County Engineer		Pickaway	Ground Tire Rubber	\$ 150,000.00	6,155
Union County Engineer		Union	Ground Tire Rubber	\$ 150,000.00	5,700
Wood County SWD		Wood	Processing	\$ 75,000.00	1,000,000
<b>SFY 08 Total</b>				<b>\$ 1,374,723.00</b>	<b>1,143,627</b>
<b>2009</b>					
Henry County SWMD		Henry	Processing	\$ 75,000.00	100,000
Maplewood Local School District		Trumbull	Ground Tire	\$ 75,000.00	6,400

SCRAP TIRE GRANTEE	COOPERATING ENTERPRISE	COUNTY	PURPOSE	GRANT \$ SPENT	TIRES USED
			Rubber		
Ohio Department of Transportation		Statewide	Ground Tire Rubber	\$ 350,000.00	1,000,000
Stark-Tusc-Wayne JSWMD		Stark	Processing	\$ 350,000.00	1,000,000
<b>SFY 09 Total</b>				<b>\$ 850,000.00</b>	<b>2,106,400</b>
<b>2010</b>					
Butler County Solid Waste District	Therapeutic Recreation for Disabled, Inc.	Butler	Ground Tire Rubber	\$ 100,000.00	7,750
Erie County Engineer's Office		Erie	Ground Tire Rubber	\$ 75,000.00	1,000
Franklin County Engineer		Franklin	Ground Tire Rubber	\$ 27,475.00	8
Holmes County Highway Dept		Holmes	Ground Tire Rubber	\$ 150,000.00	10,400
Jackson Township	Liberty Tire Services of Ohio, LLC	Franklin	Processing	\$ 240,294.00	675,000
Knox County		Knox	Ground Tire Rubber	\$ 35,000.00	3,500
Lake County Engineer		Lake	Ground Tire Rubber	\$ 129,000.00	4,173
Montgomery County Park District		Montgomery	Ground Tire Rubber	\$ 14,500.00	500
Painesville Township		Lake	Ground Tire Rubber	\$ 50,000.00	2,820
Sandusky County Park District		Sandusky	Ground Tire Rubber	\$ 50,000.00	1,817
Summit Akron Solid Waste Management Authority	Vadxx Energy	Summit	Processing	\$ 75,000.00	2,000
Wapakoneta, City of		Auglaize	Ground Tire Rubber	\$ 68,932.50	945
<b>SFY 10 Total</b>				<b>\$1,015,201.50</b>	<b>709,913</b>

SCRAP TIRE GRANTEE	COOPERATING ENTERPRISE	COUNTY	PURPOSE	GRANT \$ SPENT	TIRES USED
<b>2011</b>					
Athens County	Gem Coatings	Athens	Manufacturing	\$ 24,000.00	350,000
Berlin Township		Mahoning	Ground Tire Rubber	\$ 150,000.00	17,300
Crawford County SWMD	Gen-Rubber, LLC	Crawford	Manufacturing	\$ 350,000.00	1,040,000
Greeneview Local School District		Greene	Ground Tire Rubber	\$ 150,000.00	10,435
<b>SFY 11 Total</b>				<b>\$ 674,000.00</b>	<b>1,417,735</b>
<b>2012</b>					
Botkins Local School District		Shelby	Ground Tire Rubber	\$ 150,000.00	6,303
Chesapeake Union Exempt Village School District		Lawrence	Ground Tire Rubber	\$ 150,000.00	20,072
Dayton, City of		Montgomery	Ground Tire Rubber	\$ 150,000.00	13,000
Franklin County Engineer		Franklin	Ground Tire Rubber	\$ 14,040.00	360
Henry County SWMD		Henry	Processing	\$ 6,000.00	100,000
Ironton City School District		Lawrence	Ground Tire Rubber	\$ 150,000.00	20,507
Jackson Township	Liberty Tire Services of Ohio, LLC	Franklin	Processing	\$ 46,405.45	2,000,000
Logan County Engineer		Logan	Ground Tire Rubber	\$ 150,000.00	25,640
Marion County Engineer		Marion	Ground Tire Rubber	\$ 50,000.00	2,834
Wapakoneta, City of		Auglaize	Ground Tire Rubber	\$ 97,703.50	14,500
<b>SFY 12 Total</b>				<b>\$ 964,148.95</b>	<b>2,203,216</b>
<b>TOTAL</b>				<b>\$ 9,535,575.95</b>	<b>22,360,235</b>

## ATTACHMENT 6

### ODNR Tire Amnesty Grants State Fiscal Year 2004 and State Fiscal Years 2010 through 2012

TIRE AMNESTY GRANTEE	COUNTY	GRANT \$ SPENT	TIRES COLLECTED
<b>2004</b>			
Adams-Clermont JSWMD	Adams & Clermont	\$10,000.00	7,750
Ashland County SWMD	Ashland	\$8,887.00	4,365
Ashtabula County SWMD	Ashtabula	\$10,000.00	14,290
Athens-Hocking SWMD	Athens & Hocking	\$9,700.00	10,211
Auglaize County SWMD	Auglaize	\$8,081.00	7,850
Belmont/Jefferson RSWMA	Belmont & Jefferson	\$10,000.00	9,422
Brown County RSWMA	Brown	\$10,000.00	7,960
Butler County SWMD	Butler	\$10,000.00	9,735
Carroll, Columbiana, Harrison SWMD	Carroll, Columbiana & Harrison	\$6,476.00	4,792
Clark County SWMD	Clark	\$10,000.00	8,000
Clinton County SWMD	Clinton	\$10,000.00	3,568
Coschocton, Fairfield, Licking, Perry SWMD	Coschocton, Fairfield, Licking & Perry	\$10,000.00	6,765
Crawford County SWMD	Crawford	\$10,000.00	6,819
Cuyahoga County SWMD	Cuyahoga	\$10,000.00	6,556
Darke County SWMD	Darke	\$10,000.00	9,576
Defiance, Fulton, Paulding, Williams SWMD	Defiance, Fulton, Paulding & Williams	\$7,794.00	6,058
Delaware, Knox, Marion, Morrow SWMD	Delaware, Knox, Marion & Morrow	\$10,000.00	12,690
Erie County SWMD	Erie	\$10,000.00	7,247
Ross, Pickaway, Highland, Fayette SWMD	Ross, Pickaway, Highland & Fayette	\$10,000.00	10,060

TIRE AMNESTY GRANTEE	COUNTY	GRANT \$ SPENT	TIRES COLLECTED
Gallia, Jackson, Meigs, Vinton SWMD	Gallia, Jackson, Meigs & Vinton	\$10,000.00	7,312
Geauga -Trumbull SWMD	Geauga & Trumbull	\$10,000.00	11,933
Greene County SWMD	Greene	\$6,239.00	5,512
Hamilton County SWMD	Hamilton	\$10,000.00	13,727
Henry County SWMD	Henry	\$10,000.00	10,319
Holmes County SWMD	Holmes	\$4,200.00	2,584
Huron County SWMD	Huron	\$8,639.00	4,106
Lawrence - Scioto County SWMD	Lawrence & Scioto	\$4,260.00	1,353
Logan County SWMD	Logan	\$10,000.00	5,248
Lorain County SWMD	Lorain	8,000.00	7,447
Lucas County SWMD	Lucas	\$10,000.00	7,336
Mahoning County SWMD	Mahoning	\$6,196.00	6,196
Mercer County SWMD	Mercer	\$10,000.00	9,948
Montgomery County SWMD	Montgomery	\$10,000.00	4,875
North Central Ohio SWMD	Union	\$10,000.00	9,843
Ottawa, Sandusky, Seneca SWMD	Ottawa, Sandusky & Seneca	\$6,875.00	5,503
Pike County SWMD	Pike	\$9,990.00	10,300
Portage County SWMD	Portage	\$10,000.00	8,000
Richland County RSWMA	Richland	\$10,000.00	14,533
SWACO	Franklin	\$5,510.00	3,683
Southeastern Ohio SWMD	Muskingum, Morgan & Washington	\$9,731.00	7,049
Summit/Akron SWMA	Summit	\$9,455.00	5,814
Warren County SWMD	Warren	\$10,000.00	4,346
Wood County SWMD	Wood	\$10,000.00	3,084
Wyandot County SWMD	Wyandot	\$ 9,500.00	11,632
<b>Total SFY 2004</b>		<b>\$399,533.00</b>	<b>335,397</b>
<b>2010</b>			
Ashtabula County SWMD	Ashtabula	\$15,000.00	15,060
Auglaize County SWMD	Auglaize	\$8,800.00	7,000

TIRE AMNESTY GRANTEE	COUNTY	GRANT \$ SPENT	TIRES COLLECTED
Carroll, Columbiana, Harrison SWMD	Carroll	\$20,000.00	21,678
Clark County Combined Health District	Clark	\$14,900.00	11,023
Clinton County SWMD	Clinton	\$ 5,050.00	2,600
Copley TWP/Summit County Board of Health	Summit	\$10,000.00	5,000
Cuyahoga County SWMD	Cuyahoga	\$20,000.00	35,431
Darke County General Health District	Darke	\$15,000.00	12,000
Fayette County Soil and Water Conservation District	Fayette	\$20,000.00	16,000
Fulton County Health Department	Fulton	\$20,000.00	22,001
Geauga-Trumbull SWMD	Geauga	\$6,775.00	5,000
Greene County Combined Health District	Greene	\$20,000.00	17,000
Guernsey County	Guernsey	\$20,000.00	18,024
Hamilton County SWMD	Hamilton	\$10,000.00	5,200
Lawrence-Scioto SWMD	Lawrence	\$20,000.00	16,200
Licking County Health District	Licking	\$9,200.00	6,000
Lorain County SWMD	Lorain	\$20,000.00	25,000
Lucas County Regional Health District	Lucas	\$20,000.00	20,000
Madison County/London City Health District	Madison	\$8,948.00	6,000
Mahoning County SWMD	Mahoning	\$20,000.00	31,234
Mercer County SWMD	Mercer	\$10,000.00	7,500
Monroe County	Monroe	\$20,000.00	25,009
Muskingum County	Muskingum	\$20,000.00	16,022
Shelby County	Shelby	\$ 3,350.00	2,500
St. Clair Township	Butler	\$9,444.00	5,000
Vinton County Health Department	Vinton	\$15,000.00	12,000
Wyandot County SWMD	Wyandot	\$4,722.00	2700
Youngstown, City of	Mahoning	\$20,000.00	36,055
<b>Total SFY 2010</b>		<b>\$406,189.00</b>	<b>404,237</b>
<b>2011</b>			
Adams-Clermont SWMD	Clermont	\$20,000.00	17,022

TIRE AMNESTY GRANTEE	COUNTY	GRANT \$ SPENT	TIRES COLLECTED
Athens City County Health Department	Athens	\$20,000.00	14,666
Ashland County Health Department	Ashland	\$15,000.00	14,000
Ashtabula Township	Ashtabula	\$80,000.00	79,034
Carlisle, City of	Warren	\$10,000.00	5,000
Carroll, Columbiana, Harrison SWMD	Carroll	\$20,000.00	38,999
Clinton County SWMD	Clinton	\$5,050.00	2,600
Copley Township	Summit	\$2,500.00	1,698
Erie County Health Department	Erie	\$10,000.00	4,500
Fulton County Health Department	Fulton	\$60,000.00	30,000
Greene County Health Department	Greene	\$115,000.00	76,044
Greene SWMD	Greene	\$20,000.00	15,000
Lorain County SWMD	Lorain	\$20,000.00	31,423
Lucas County SWMD	Lucas	\$10,000.00	6,000
Mad River Township	Clark	\$20,000.00	14,777
Monroe County	Monroe	\$40,000.00	22,000
Portage SWMD	Portage	\$20,000.00	20,000
Public Health Dayton-Montgomery	Montgomery	\$14,525.00	8,750
Ross, Pickaway, Highland, Fayette SWMD	Ross & Pickaway	\$10,000.00	7,500
Sandusky County Health Department	Sandusky	\$20,000.00	21,888
Wyandot SWMD	Wyandot	\$10,000.00	8,000
Youngstown, City of	Mahoning	\$20,000.00	17,022
<b>Total SFY 2011</b>		<b>\$562,075.00</b>	<b>455,923</b>
<b>2012</b>			
Adams Clermont SWMD	Adams	\$20,000.00	15,000
Ashtabula, City of	Ashtabula	\$10,000.00	8,000
Athens City County HD	Athens	\$15,000.00	15,000
Auglaize County SWMD	Auglaize	\$ 8,800.00	7,000
Buck Creek State Park	Clark	\$1,500.00	500
Carroll, Columbiana, Harrison SWMD	Carroll	\$20,000.00	20,000

<b>TIRE AMNESTY GRANTEE</b>	<b>COUNTY</b>	<b>GRANT \$ SPENT</b>	<b>TIRES COLLECTED</b>
Clinton County SWMD	Clinton	\$ 5,050.00	2,600
Copley Township	Summit	\$2,000.00	1,200
Erie County SWMD	Erie	\$15,000.00	12,000
Greene County SWMD	Greene	\$20,000.00	20,000
Hocking County Health Department	Hocking	\$20,000.00	13,000
Hamilton County SWMD	Hamilton	\$10,000.00	5,000
Lorain County SWMD	Lorain	\$15,000.00	15,000
Lucas County SWMD	Lucas	\$10,000.00	6,000
Portage County SWMD	Portage	\$20,000.00	25,000
Ross, Pickaway, Highland, Fayette SWMD	Ross	\$10,000.00	5,500
Steubenville, City of	Jefferson	\$8,000.00	5,000
Vinton County Health Department	Vinton	\$20,000.00	18,000
<b>Total SFY 2012</b>		<b>\$230,350.00</b>	<b>193,800</b>
<b>TOTAL</b>		<b>\$ 2,965,944.00</b>	<b>2,584,914</b>

## ATTACHMENT 7

### Summary of the Scrap Tire Management and Market Development Funds

#### Scrap Tire Market Development Fund 5860

	2008	2009	2010	2011	2012	Total
<b>Revenue</b>						
Ohio EPA Cash Transfers In	\$ 1,000,000	\$ 1,220,886	\$ 1,500,000	\$ 1,500,000	\$ 1,000,000	\$ 6,220,886
Revenue to Fund	-	\$ 145,544	\$ 284,291	\$ 578	\$ 16,752	\$ 447,164
<i>Total Revenue</i>	\$ 1,000,000	\$ 1,366,430	\$ 784,291	\$ 1,500,578	\$ 1,016,752	\$ 6,668,050
<b>Expenses</b>						
Admin. Expense	\$ 97,938	\$ 75,944	\$ 58,626	\$ 51,359	\$ (432)	\$ 283,434
Grants/Loans	\$ 1,259,264	\$ 208,305	\$ 1,349,528	\$ 975,055	\$ 1,218,042	\$ 5,010,194
<i>Total Expenses</i>	\$ 1,357,202	\$ 284,949	\$ 1,758,154	\$ 1,026,414	\$ 1,217,610	\$ 5,644,329

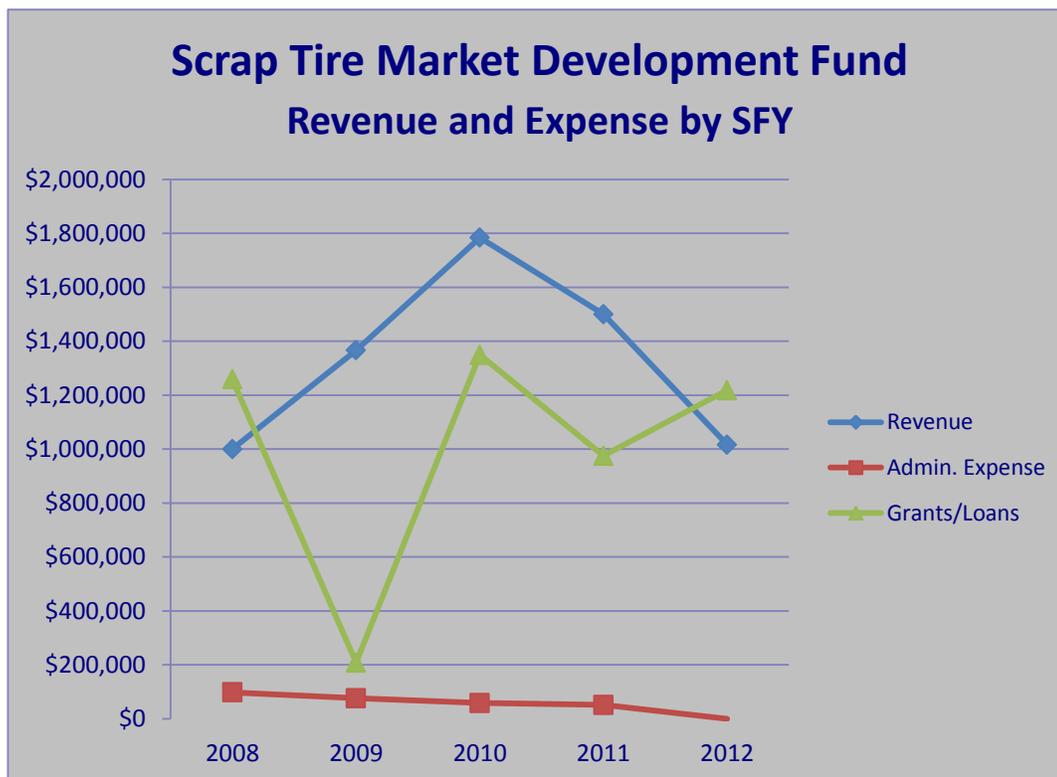
**Notes:**

Ohio EPA cash transfers in from the scrap tire management fund are the only source of dedicated funding.

Revenue to Fund - Periodically un-used grant awards are returned as a revenue deposit.

Administrative expenses include cash transferred charges on payroll in 2010 and 2011.

Administrative expenses are negative in SFY 2012 due to an accounting correction.



## Scrap Tire Management Fund 4R50

	2008	2009	2010	2011	2012	Total
<b>Revenue</b>	\$ 7,200,111	\$ 7,209,411	\$ 6,992,883	\$ 3,402,317	\$ 4,002,409	\$ 28,807,130
<b>Expenses</b>						
Admin. Expense	\$ 733,143	\$ 745,083	\$ 589,008	\$ 542,285	\$ 465,691	\$ 3,075,210
Contracts	\$ 6,810,892	\$ 2,934,981	\$ 667,228	\$ 528,127	\$ 321,517	\$ 11,262,746
Refunds	-	-	-	-	\$ 137,027	\$ 137,027
<b>Total Expenses</b>	\$ 7,544,036	\$ 3,680,064	\$ 1,256,236	\$ 1,070,412	\$ 924,235	\$ 14,474,983

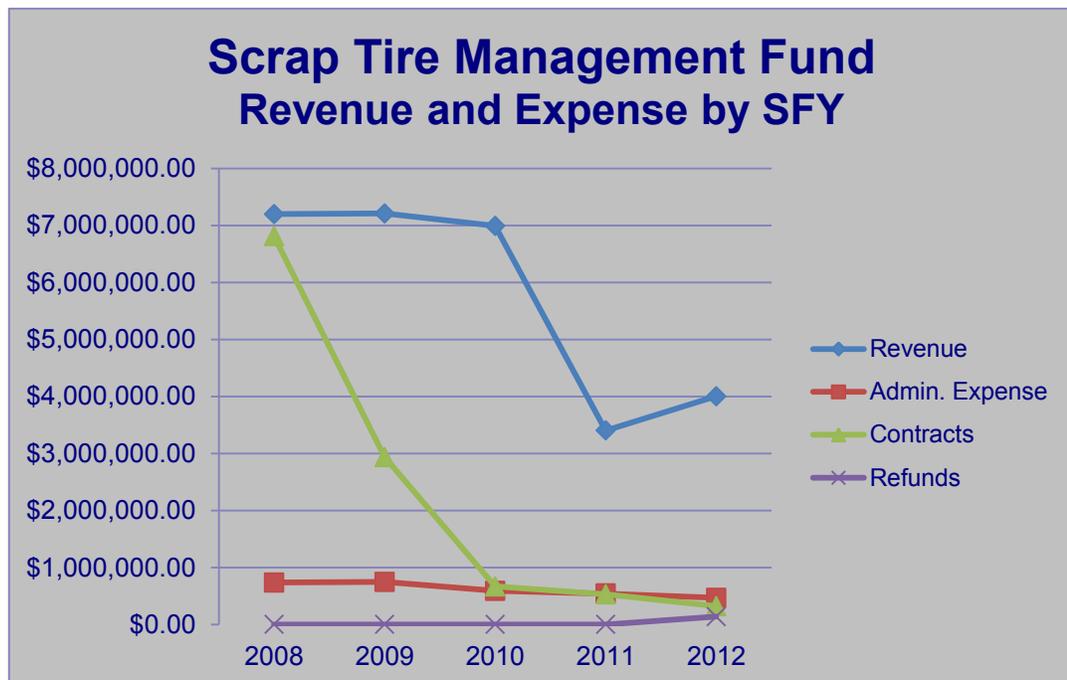
**Notes:**

Administrative expenses include a relatively small amount of remediation project spending based on accounting code usage requirements.

Administrative expenses include cash transferred charges on payroll in 2010 and 2011.

Contract expenses are primarily remediation project expenses.

Refunds include a cash transfer to correct a prior year deposit error.



## ATTACHMENT 8

### Ohio Scrap Tire Expenditures by SWMD State Fiscal Years 1996 through 2012

Solid Waste Management District (SWMD)	County	Total Scrap Tire Fund Revenue	MDG Grants/Loans		TAG Grans		PTEs	Remediation Projects		
			#	Amount Awarded	#	Amount Awarded		#	Amount Spent	PTEs
Ashland County SWMD	Ashland	\$703,519	3	\$679,000	2	\$23,887	18,365	1	\$632	422
Ashtabula County SWMD	Ashtabula	\$767,703	2	\$441,632	4	\$115,000	116,384	8	\$211,067	170,820
Auglaize County SWMD	Auglaize	\$974,688	4	\$818,357	3	\$25,681	21,850	2	\$130,650	102,450
Brown County Solid Waste Authority	Brown	\$439,530	2	\$398,853	1	\$10,000	7,960	3	\$30,677	3,891
Butler County SWMD	Butler	\$360,457	2	\$107,050	2	\$19,444	14,735	5	\$233,963	130,390
Clark County SWMD	Clark	\$1,124,093	1	\$27,000	4	\$46,400	34,300	5	\$1,050,693	867,194
Clinton County SWMD	Clinton	\$25,150	0		4	\$25,150	11,368	0	\$0	0
Crawford County SWMD	Crawford	\$360,000	1	\$350,000	1	\$10,000	6,819	0	\$0	0
Cuyahoga County SWMD	Cuyahoga	\$1,231,834	6	\$1,199,103	2	\$30,000	41,987	1	\$2,731	2,897
Darke County SWMD	Darke	\$89,450	1	\$64,450	2	\$25,000	21,576	0	\$0	0
Erie County SWMD	Erie	\$117,686	1	\$75,000	3	\$35,000	23,747	1	\$7,686	3,412
Solid Waste Authority of Central Ohio	Franklin	\$1,022,304	9	\$961,787	1	\$5,510	3,683	6	\$55,007	22,759
Greene County SWMD	Greene	\$745,192	3	\$552,631	5	\$181,239	133,556	3	\$11,322	4,324
Hamilton County SWMD	Hamilton	\$52,630	0		3	\$30,000	20,519	9	\$22,630	8,812
Hancock County SWMD	Hancock	\$0	0		0			0	\$0	0
Henry County SWMD	Henry	\$195,378	3	\$171,000	1	\$10,000	10,319	2	\$14,378	3,127
Holmes County SWMD	Holmes	\$304,200	2	\$300,000	1	\$4,200	2,584	0	\$0	0
Huron County SWMD	Huron	\$82,475	1	\$73,000	1	\$8,639	4,106	1	\$836	708
Lake County SWMD	Lake	\$182,000	2	\$179,000	0			2	\$3,000	1,782
Logan County SWMD	Logan	\$310,000	2	\$300,000	1	\$10,000	5,248	0	\$0	0
Lorain County SWMD	Lorain	\$770,150	4	\$286,852	4	\$63,000	78,870	1	\$420,298	574,232
Lucas County SWMD	Lucas	\$832,866	4	\$744,631	4	\$50,000	39,336	6	\$38,235	11,713
Mahoning County SWMD	Mahoning	\$1,468,844	5	\$567,881	4	\$66,196	90,507	5	\$834,767	721,477

Solid Waste Management District (SWMD)	County	Total Scrap Tire Fund Revenue	MDG Grants/Loans		TAG Grans		Remediation Projects			
			#	Amount Awarded	#	Amount Awarded	PTEs	#	Amount Spent	PTEs
Medina County SWMD	Medina	\$113,032	1	\$113,032	0			0	\$0	0
Mercer County SWMD	Mercer	\$72,631	1	\$52,631	2	\$20,000	17,448	0	\$0	0
Miami County SWMD	Miami	\$11,091	0		0			3	\$11,091	4,270
Montgomery County SWMD	Montgomery	\$197,146	2	\$164,500	2	\$24,525	13,625	2	\$8,121	3,358
Pike County SWMD	Pike	\$131,138	0		1	\$9,990	10,300	32	\$121,148	28,183
Portage County SWMD	Portage	\$2,230,060	1	\$250,000	3	\$50,000	53,000	4	\$1,930,060	1,660,143
Preble County SWMD	Preble	\$6,183	0		0			1	\$6,183	2,256
Putnam County SWMD	Putnam	\$131,881	2	\$131,881	0			0	\$0	0
Richland County Regional SWM Authority	Richland	\$221,205	0		1	\$10,000	14,533	3	\$211,205	237,694
Summit-Akron SWM Authority	Summit	\$5,160,450	6	\$1,037,860	4	\$23,955	13,712	2	\$4,098,635	4,995,505
Van Wert County SWMD	Van Wert	\$647	0		0			1	\$647	305
Warren County SWMD	Warren	\$64,491	0		2	\$20,000	9,346	8	\$44,491	19,695
Wood County SWMD	Wood	\$337,631	4	\$327,631	1	\$10,000	3,084	0	\$0	0
Wyandot County SWMD	Wyandot	\$39,961,528			3	\$24,222	46,554	2	\$39,937,306	23,297,666
Adams-Clermont Joint SWMD	Adams							5	\$59,331	31,695
	Clermont							3	\$6,348	2,834
<i>AC SWMD Total</i>		\$181,359	0		3	\$50,000	39,772	8	\$65,680	
Athens-Hocking Joint SWMD	Athens							37	\$61,324	28,808
	Hocking							15	\$36,231	24,936
<i>AH SWMD Total</i>		\$186,255	1	\$24,000	4	\$64,700	169,261	52	\$97,555	
Belmont-Jefferson Regional SW Authority	Belmont							4	\$19,868	7,365
	Jefferson							8	\$150,065	31,289
<i>BJ Authority Total</i>		\$381,935	1	\$194,001	2	\$18,000	14,422	12	\$169,934	
Geauga-Trumbull Joint SWMD	Geauga							0	\$0	0
	Trumbull							5	\$220,636	87,232
<i>GT SWMD Total</i>		\$633,573	4	\$396,162	2	\$16,775	16,933	5	\$220,636	
Lawrence-Scioto Joint SWMD	Lawrence							10	\$356,397	143,058

Solid Waste Management District (SWMD)	County	Total Scrap Tire Fund Revenue	MDG Grants/Loans		TAG Grans		PTEs	Remediation Projects		
			#	Amount Awarded	#	Amount Awarded		#	Amount Spent	PTEs
	Scioto							11	\$817,955	117,342
<i>LS SWMD Total</i>		\$1,584,817	4	\$386,205	2	\$24,260	17,553	21	\$1,174,352	
Carroll-Columbiana-Harrison Joint SWMD	Carroll							2	\$6,390	1,390
	Columbiana							9	\$463,049	154,184
	Harrison							4	\$325,514	495,509
<i>CCH SWMD Total</i>		\$1,416,691	5	\$555,262	4	\$66,476	85,469	15	\$794,953	
Ottawa-Sandusky-Seneca Joint SWMD	Ottawa							3	\$28,957	11,933
	Sandusky							2	\$124,201	93,705
	Seneca							0	\$0	0
<i>OSS SWMD Total</i>		\$657,664	4	\$477,631	2	\$26,875	27,391	5	\$153,158	
Stark-Tuscarawas-Wayne Joint SWMD	Stark							11	\$50,362	21,396
	Tuscarawas							0	\$0	0
	Wayne							2	\$8,882	1,027
<i>STW SWMD Total</i>		\$2,161,511	7	\$2,102,268	0			13	\$59,243	
Coshocton-Fairfield-Licking-Perry Joint SWMD	Coshocton							8	\$2,471,079	2,198,298
	Fairfield							1	\$880	307
	Licking							3	\$7,705	4,078
	Perry							6	\$199,704	218,773
<i>CFLP SWMD Total</i>		\$3,516,004	9	\$817,437	2	\$19,200	12,765	18	\$2,679,367	
Defiance-Fulton-Paulding-Williams Joint SWMD	Defiance							1	\$1,820	1,612
	Fulton							1	\$952	623
	Paulding							0	\$0	0
	Williams							1	\$1,342	665
<i>DFPW SWMD Total</i>		\$163,907	1	\$72,000	3	\$87,794	58,059	3	\$4,113	
Delaware-Knox-Marion-Morrow Joint SWMD	Delaware							1	\$900	732

Solid Waste Management District (SWMD)	County	Total Scrap Tire Fund Revenue	MDG Grants/Loans		TAG Grans		PTEs	Remediation Projects		
			#	Amount Awarded	#	Amount Awarded		#	Amount Spent	PTEs
	Knox							0	\$0	0
	Marion							1	\$900	278
	Morrow							4	\$609,992	659,174
<i>DKMM SWMD Total</i>		\$1,001,032	4	\$379,240	1	\$10,000	12,690	6	\$611,792	
Fayette-Highland-Pickaway-Ross Joint SWMD	Fayette							1	\$2,318	2,897
	Highland							0	\$0	0
	Pickaway							1	\$8,178	2,978
	Ross							13	\$37,959	13,322
<i>FHPR SWMD Total</i>		\$578,455	2	\$500,000	3	\$30,000	23,060	15	\$48,455	
Gallia-Jackson-Meigs-Vinton Joint SWMD	Gallia							17	\$79,323	34,744
	Jackson							61	\$406,558	132,969
	Meigs							20	\$53,758	16,762
	Vinton							11	\$30,846	5,430
<i>GJMV SWMD Total</i>		\$755,485	2	\$140,000	3	\$45,000	37,312	109	\$570,485	
North Central Ohio SWMD	Allen							0	\$0	0
	Champaign							1	\$12,229	17,283
	Hardin							0	\$0	0
	Madison							0	\$0	0
	Shelby							0	-	0
	Union							1	\$3,894	1,040
<i>North Central Ohio SWMD Total</i>		\$1,112,257	8	\$1,086,065	3	\$22,298	18,343	2	\$3,894	
Southeast Ohio SWMD	Guernsey							6	\$20,010	8,393
	Monroe							1	\$26,919	19,516
	Morgan							10	\$26,511	12,047
	Muskingum							10	\$3,226,946	1,021,701
	Noble							1	\$5,010	1,354
	Washington							4	\$14,629	3,671

Solid Waste Management District (SWMD)	County	Total Scrap Tire Fund Revenue	MDG Grants/Loans		TAG Grans		Remediation Projects			
			#	Amount Awarded	#	Amount Awarded	PTEs	#	Amount Spent	PTEs
<i>Southeast Ohio SWMD Total</i>		\$4,297,491	5	\$867,736	5	\$109,731	88,104	32	\$3,320,024	38511835
<b>Statewide Total</b>		<b>\$79,427,700</b>	<b>132</b>	<b>\$18,372,769</b>	<b>111</b>	<b>\$1,578,147</b>	<b>1,510,555</b>	<b>435</b>	<b>\$59,411,100</b>	<b>77,023,670</b>

## ATTACHMENT 9

### End Uses of Scrap Tires Processed in Ohio in 2011

