

# MARYLAND SCRAP TIRE ANNUAL REPORT - Fiscal Year 2018 -

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Prepared for:
Senate Education, Health and Environmental Affairs Committee

House Environment and Transportation Committee

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# TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
Introduction	
ACCOMPLISHMENTS AND RESULTS	
FINANCIAL STATEMENT SUMMARY	1
OVERVIEW	
SCRAP TIRE STOCKPILE CLEANUPS	3
Objective	
ACCOMPLISHMENTS	3
FY 2019 ONGOING STOCKPILE CLEANUPS	4
STATE-FUNDED CLEANUPS	
COST RECOVERY ACTIONS	
SCRAP TIRE PROJECTS	10
PROJECTS PLANNED FOR FY 2019	10
LICENSING	11
LICENSING ACCOMPLISHMENTS IN FY 2018	11
SCRAP TIRE MARKETS AND MARKET DEVELOPMENT	12
Market Analysis	12
Market Challenges	15
TABLE OF FIGURES & TABLES	
FIGURE 1 – MARYLAND SCRAP TIRE PROCESSING AMOUNTS	12
FIGURE 2 – MARYLAND GENERATED SCRAP TIRE MANAGEMENT	13
FIGURE 3 – SCRAP TIRE FLOW IN FY 2017	
TABLE I – MARYLAND USED TIRE CLEANUP AND RECYCLING FUND FY 2017 REVENUES A	
Expenditures	2
TABLE II – SCRAP TIRE CLEANUP SITES COMPLETED IN FY 2017	4
TABLE III – SCRAP TIRE STOCKPILE CLEANUPS PENDING OR ONGOING IN FY 2018	4
Table IV –Initiated Cost Recovery Actions Through FY 2017	
TABLE V – SCRAP TIRE LICENSES IN FY 2017	
TABLE VI – MARYLAND LICENSED SCRAP TIRE PROCESSING FACILITIES	
TABLE VII – MARYLAND SCRAP TIRE PROCESSOR DATA	
TABLE VIII – PROCESSING OF MARYLAND AND OUT-OF-STATE SCRAP TIRES	15

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# **Executive Summary**

#### Introduction

This is the Fiscal Year ("FY") 2018 Scrap Tire Annual Report as required by Environment Article, Section 9-275(c), Annotated Code of Maryland. This report is prepared for the Senate Education, Health, and Environmental Affairs Committee and the House Environment and Transportation Committee of the Maryland General Assembly to advise the Standing Committees of the Maryland Department of the Environment's ("the Department") progress in implementing the law and ensuring the proper management of scrap tires in Maryland. The report includes Maryland's Scrap Tire Program activities undertaken by the Department and the Maryland Environmental Service ("MES") from July 2017 through June 2018, and describes planned activities for the coming year.

#### **Accomplishments and Results**

- Maryland generated an estimated 6.1 million scrap tires in FY 2018 that were managed in the following manner: recycled or used as fuel in Maryland (61 percent) and exported to other states for disposal, recycling, or use as fuel (39 percent) (see Figure 2).
- Maryland's licensed scrap tire facilities processed 6.7 million scrap tires in FY 2018, including 3.7 million Maryland-generated scrap tires and 3.0 million scrap tires imported from out-of-state (see Figure 1).
- Approximately 95 percent of the scrap tires processed in Maryland were recycled and 5 percent were used as supplemental fuel in a cement kiln.
- Since the inception of the Scrap Tire Program in 1992, over 11 million scrap tires have been recovered from 1,098 stockpile cleanup sites.
- During FY 2018, a total of 16 illegal scrap tire stockpile sites were cleaned up and approximately 213,561 scrap tires were removed (see Table II).
- 100 percent of stockpile site cleanups accomplished in FY 2018 were achieved by the responsible party under an administrative enforcement, without using the Used Tire Cleanup and Recycling Fund ("the Fund").
- A total of 159 new scrap tire licenses were issued (see Table V).
- A total of 103 scrap tire licenses were renewed (see Table V).
- At the end of FY 2018, there were a total of 3,182 valid Maryland scrap tire licenses (see Table V).

## **Financial Statement Summary**

- The Environment Article, Section 9-275, Annotated Code of Maryland, provides the Department with the responsibility for administering the Fund.
- The Fund is generated through the collection of an eighty cent (\$0.80) per tire recycling fee on the first sale of any new tire in the State.
- There was a slight increase, to \$3,679,670.07, in the amount of gross tire fee revenues deposited into the Fund in FY 2018, as compared to FY 2017 (\$3,574,453.52) (see Table I).
- Section 9-275(a) of the Environment Article allows the Department to use up to 50 percent of the revenues received by the Fund in FY 2010, and each fiscal year thereafter, for administrative expenses of the Department.

• The Department used \$996,788.30 of the revenues received by the Fund in FY 2018 for administrative expenses of the Land and Materials Administration.

Table I – Maryland Used Tire Cleanup and Recycling Fund FY 2018 Revenues and Expenditures

Fund Balance (7/1/2017)	\$ <u>3,737,234.50</u>
Add Open Prior Year Encumbrances	<u>\$ 343,441.27</u>
Adjusted Beginning Balance	<u>\$ 4,080,675.77</u>
FY 2018 Revenues	
Gross Used Tire Fees Revenues after	
Comptroller Adjustment	\$ 3,679,670.07
Cost Recovery	\$ 0.00
Total Revenue for FY 2018	<u>\$ 3,679,670.07</u>
FY 2018 Expenditures	
Scrap Tire Program Expenses	\$ 2,571,128.76
Land and Materials Administration Expenses	\$ 996,788.30
Department Indirect Costs	\$ 627,945.00
Stockpile Cleanups	\$ 223,143.88
MES Projects and Administration	\$ 49,581.29
Total FY 2018 Expenditures	<u>\$ 4,468,587.23</u>
Total Open Encumbrances	<u>\$ 83,068.63</u>
Total Fund Balance (6/30/2018)	<u>\$ 3,208,689.98</u>

<sup>\*</sup> Note: Revenue collected from scrap tire penalties is deposited into the Maryland Clean Water Fund, not the Used Tire Cleanup and Recycling Fund. Scrap tire penalties for FY 2018 were \$30,252.87.

### **Overview**

The Scrap Tire Recycling Act ("Act") established a mechanism for the cleanup of scrap tire stockpiles and for the collection, transportation, and recycling or processing of all scrap tires that are generated annually in Maryland. The Act established the Fund to support the Scrap Tire Program.

- The Department uses the Fund for administration of the Scrap Tire Program, scrap tire licensing activities, stockpile cleanups, enforcement/compliance, remedial actions, and for the development and distribution of public information concerning scrap tire issues.
- Under the Department's authorization, MES may use portions of the Fund to implement and oversee programs established as part of a scrap tire recycling system and other projects that reduce, recover, and/or recycle scrap tires.

## **Scrap Tire Stockpile Cleanups**

#### **Objective**

In FY 2018, the Department accomplished its goal to initiate the planning and cleanup process for 100 percent of illegal scrap tire stockpile sites identified during the year. Approximately 6,650 scrap tires in 17 stockpiles were newly identified in FY 2018. During FY 2018, the Scrap Tire Program continued to oversee the cleanup and recovery of 336,426 scrap tires identified in stockpiles at the end of FY 2017.

In order to ensure that illegal stockpiles are cleaned up, the Scrap Tire Program initially attempts to use administrative enforcement procedures to persuade property owners to remove stockpiles using their own resources. If administrative enforcement efforts are unsuccessful the Fund may be used. In cases in which the Fund is used, the Scrap Tire Program seeks cost recovery from responsible parties for any expenses incurred at sites that are not eligible for exemption from paying cost recovery.

## Accomplishments

Since the inception of the Scrap Tire Program in 1992, over 11 million scrap tires have been recovered from stockpile cleanup sites.

During FY 2018, the Scrap Tire Program successfully completed cleanup of 16 illegal scrap tire stockpiles, consisting of approximately 213,561 scrap tires (see Table II). These sites were located in 12 of the State's 24 jurisdictions and ranged in size from 14 to 200,000 scrap tires. The Scrap Tire Program also initiated the planning and cleanup process for the 17 illegal scrap tire stockpile sites newly identified during FY 2018.

All of the scrap tire stockpile cleanups in FY 2018 were conducted by the responsible party without using the Fund.

**Table II – Scrap Tire Cleanup Sites Completed in FY 2018** 

Site Name	County	Initial Number of Scrap Tires
Nationwide Tire Recycles, Inc. / Hanover	Anne Arundel	200,000
Insley / Cambridge #2	Dorchester	6,655
Northeast Used & New Tire / North East #2	Cecil	3,000
Bopst / Randallstown	Baltimore	2,460
Legore Bridge Road / Monocacy River	Frederick	375
Magnolia Cove Investment Group LLC / Upper Marlboro	Prince George's	350
Chesapeake Recycling & Disposal / Baltimore	Baltimore	200
Moores Way / Upper Marlboro #2	Prince George's	150
Mazcko / Millington	Kent	100
DST, LLC / Hagerstown	Washington	69
Birch-Burns / Ocean City	Worcester	62
Roberts / Trappe	Talbot	60
Trust Williamsburg M. E. Church / Trappe	Talbot	30
Sel Properties, Inc. / Joppa SWP	Harford	20
Wiherler /Street	Harford	16
Fike / Easton	Talbot	14
TOTAL SCRAP TIRES REMOVED		213,561

## **FY 2019 Ongoing Stockpile Cleanups**

New stockpile sites are continually being identified for cleanup in Maryland. The Scrap Tire Program expects to continue or complete cleanup on 50 stockpile sites in FY 2019. Most of the stockpiles will be cleaned up using administrative efforts and enforcement actions. Table III details the scrap tire cleanups to be continued during FY 2019.

Table III - Scrap Tire Stockpile Cleanups Pending or Ongoing in FY 2019

Site Name	County	Legislative District	Initial Number of Scrap Tires
Snap Holdings, LLC / Clarksville (formerly Tyler	Howard	13	61,376
Towing / Clarksville) †	Howard		01,570
Mt. Airy Auto & Truck Parts, LLC / Mt. Airy	Frederick	4A	15,000
Elkton Used Tires / Elkton	Cecil	35A	10,000
G & TL Smith Contracting LLC / Chesapeake Beach	Calvert	27B	5,000
Ewings Used Cars & Parts, Inc. / Middle River	Baltimore	7	4,500
Johns-Gibbs / Marydel	Caroline	36	3,050
Harpers / Elkton	Cecil	36	3,000
Howard / Reisterstown #2	Baltimore	04	3,000
Tilghman / Easton	Talbot	37B	3,000
Hackett / Rhodesdale	Dorchester	37B	2,500
Irene Glenwood Place / Nanjemoy	Charles	- 28	2,000
Frederick / Crownsville	Anne Arundel	33A	1,000
McIntyre / Huntingtown	Calvert	27B	1,000
Zepp / Pasadena	Anne Arundel	31	1,000

Site Name	County	Legislative District	Initial Number of Scrap Tires
DNR / Mardela Springs	Wicomico	37B	1,000
Sexton / North East	Cecil	35A	1,000
Tucker Enterprizes, LLC / Clarksville	Howard	13	800
Szymanski / Rock Hall #2	Kent	36	600
Amtrak / Lanham	Prince George's	24	500
Ficklin / Aberdeen	Harford	34A	500
Urciolo Associates / Point of Rocks	Frederick	3B	500
Beachwood North H.O.A. / Sparrows Point	Baltimore	6	500
Turner Transit / Capitol Heights	Prince George's	24	500
Decatur / Cumberland	Allegany	1C	500
Carter / Nanjemoy	Charles	28	500
Munson / Waldorf	Charles	28	500
Nabely / Landover (7410 Jefferson) SWP	Prince George's	22	480
Stewart / Ijamsville	Frederick	4	400
Johnson Auto Parts & Recycling / Indian Head	Charles	28	300
Alderson / Church Hill	Queen Anne's	36	300
Route 144 In Hancock, LLC / Hancock	Washington	1C	250
Rodenhauser / Bowie	Prince George's	23B	250
Roberts / Ocean City	Worcester	38C	200
Bruner / Galena	Kent	36	200
WMATA / Landover	Prince George's	18	200
Womack Brothers, Inc. / Baltimore SWP	Baltimore City	44A	200
Sarver-Hill / Cumberland	Allegany	1B	200
Kaminski / Baltimore	Baltimore City	46	120
Corp. of Roman Catholic Clergy of MD / Bowie	Prince George's	23B	100
Comer / Middle River	Baltimore	7	100
Mickley / Savage	Howard	13	100
AA County Board of Edu / Brooklyn Park	Anne Arundel	31A	100
Monocacy River at Devilbiss Bridge Road / Frederick	Frederick	4	100
Anne Arundel County / Pasadena	Anne Arundel	2	100
Blythedale LLC / Perryville	Cecil	35A	96
Bailey-Dean / Hurlock	Dorchester	37B	80
Maryland Food Center Authority / Jessup	Howard	13	75
Robinson / Hurlock SWP	Dorchester	37B	65
McAleer / Dickerson	Montgomery	15	60
Conners / Mt. Airy	Frederick	4	50
TOTAL SCRAP TIRES REMAINING TO BE I	REMOVED		126,952

<sup>†</sup> Cleanup preparations began using the Fund before the property was sold. The remainder of the cleanup is expected to be performed without use of the Fund.

## **State-Funded Cleanups**

The following are descriptions of each of the active State-funded scrap tire cleanup sites during FY 2018.

<u>Garner/Brandywine Scrap Tire Stockpile Cleanup</u> – Located in Prince George's County, this was one of the few remaining very large scrap tire dumps in Maryland. This stockpile consisted of approximately 1,135,160 scrap tires in seven ravines on the property. In FY 2005, the Board of Public Works approved funding for the cleanup. Due to the inheritance exemption in the law, there is no cost recovery for this cleanup.

Status: Cleanup activities on the first ravine began in FY 2010 and were completed in June 2011. Cleanup of the remainder of the site began in June 2011 and was completed in June 2012, a year and a half ahead of schedule. Monitoring of tree growth continued for five years, until 2017, to ensure that the site stabilization and restoration efforts are successful. The total cost for cleanup of the entire site, including permitting activities and project management, is estimated at \$9,900,000. MES secured a loan from the Department's Water Quality Financing Administration to help finance this cleanup.



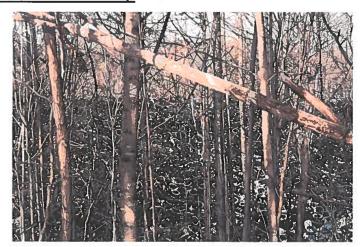


<u>Boehm/Crownsville Scrap Tire Stockpile Cleanup</u> – This was the site of an old commercial landfill in Anne Arundel County that had approximately 133,600 scrap tires in ravines, both loose and partially buried in the ground.

Status: In November 2012, the Department commenced litigation against the owners to compel them to clean up the scrap tires or grant access to the State for the cleanup of the scrap tires, and to pay for all expenses incurred by the State related to the cleanup. The case was settled in February 2014, and the Department and property owners entered into a consent order that stipulates that the Department would clean up the scrap tires on site using the Fund and the property owners would place a portion of the property into an environmental trust. The design and permitting phase of the cleanup was completed in FY 2016. Scrap tire removal and site restoration activities began in FY 2016 and were completed during FY 2017. Monitoring of tree growth will continue for two years, until 2019, to ensure that the site stabilization and restoration efforts are successful. The total cost for cleanup of the entire site, including permitting activities and project management, is estimated at \$2,500,000.

## Boehm/Crownsville Cleanup











<u>Tyler Towing/Clarksville</u> (now Snap Holdings, LLC/Clarksville) Scrap Tire Stockpile <u>Cleanup</u> – This property was used as a junkyard for decades in Howard County. There are currently estimated to be 46,900 scrap tires in stockpiles throughout the property. Some scrap tires are mixed with scrap metal, soil, and other solid wastes in a berm that roughly follows the property perimeter.

Status: All administrative and enforcement efforts by the Department were exhausted, and the property owners failed to remove and properly dispose of the scrap tires on the site. The Department worked with the Office of the Attorney General ("OAG") to obtain court ordered access to the property for the purpose of conducting a State-funded cleanup. The design and permitting phase of the cleanup began; however, the property was sold at tax sale at the end of FY 2016. The property was sold again in 2018, and the Department has begun the process for pursuing cleanup and compliance through administrative means with the new property owner. The site is now referred to as the Snap Holdings, LLC/Clarksville site and is no longer a State funded cleanup. Cost recovery for funds already expended will be sought from Tyler Towing, Inc. (the previous property owner who operated the site as a junkyard and was previously licensed to collect scrap tires on site).

Tyler Towing/Clarksville (Snap Holdings, LLC/Clarksville) Cleanup







## **Cost Recovery Actions**

- The Department continues to use the services of the Office of the Attorney General to handle scrap tire cost recovery actions (see Table IV for details).
- Since the inception of the program, a total of 148 cleanups have been performed using the Fund.
- In total, 32 property owners have been pursued in cost recovery actions for cases in which the State used the Fund to initiate scrap tire cleanups.
- Cost recovery has not been sought against:
  - o 95 sites because they were on publicly owned property, which are exempted under the law;
  - o 12 sites because the property owner qualified for the statutory inheritance exemption;
  - o 5 sites because the property owner passed away and the estate was closed before a cost recovery action could be completed;
  - o 3 sites because the cost to pursue the case was higher than the cost recovery amount that could be sought; and
  - o 1 site because the Department entered into a Consent Order with the property owners exempting the owners from cost recovery in exchange for placing a portion of the property into an environmental trust.
- To date, the Department has sought a total of \$3,088,508.90 from property owners (see Table IV) and has collected a total of \$499,758.85 in cost recovery actions. Many of these cases are still in litigation or have been sent to the Central Collections Unit. Some cases were settled out-of-court for less than the amount originally sought due to the Defendant's inability to pay.
- The Garner/Brandywine site (significantly completed in FY 2012, except for monitoring of restoration efforts) qualifies for the inheritance exemption. In accordance with a consent order, Boehm/Crownsville was cleaned up using the Fund and the property owners will not be required to reimburse the Department. Therefore, cost recovery will not be sought for these sites.
- No cost recovery funds were collected in FY 2018.

## Table IV – Initiated Cost Recovery Actions Through FY 2018

Site Name	County	Cleanup Year	No. of Scrap Tires	Amount Sought
Hughesville/Underwood	Charles	1996	720,000	\$1,015,299.72
Western Commercial/Smithburg	Washington	1996	505,500	\$770,174.47
Oak Hill Realty/Easton	Talbot	1997	158,325	\$375,294.16
Lofland/Sudlersville	Queen Anne's	1996	120,000	\$226,083.74
Snyder/Calvert	Cecil	1996	129,526	\$151,266.00
Tull/Federalsburg	Caroline	1997	61,688	\$104,586.00
Johnson/Sunderland	Calvert	2003	10,735	\$91,123.00
Howard/Crisfield	Somerset	2002	21,505	\$86,395.00
Insley/Cambridge	Dorchester	2002	20,747	\$60,908.91
Hustle Tire/Ingleside	Queen Anne's	1998	26,852	\$48,437.69

Site Name	County	Cleanup Year	No. of Scrap Tires	Amount Sought	
Dotson/Preston	Caroline	2000	24,000	\$26,403.70	
Sproates/Golts	Kent	1998	6,825	\$26,118.75	
Warfield/Bethlehem	Caroline	1997	14,338	\$24,596.24	
Myers/Baltimore	Baltimore	2002	7,179	\$22,349.00	
Williams/Vienna	Dorchester	2002	3,642	\$14,611.00	
Elwood's Auto/Smithburg	Washington	2000	266,664	\$11,388.02	
Husted/Crisfield	Somerset	2003	1,650	\$7,598.00	
Clark/Choptank	Caroline	2004	2,007	\$5,495.00	
Betts/Crisfield	Somerset	2002	922	\$3,877.00	
Heath Salvage/Millington	Kent/Queen Anne's	2001	3,478	\$3,200.00	
Thomas/Rhodesdale	Dorchester	2003	350	\$2,450.00	
Joy & Morgan Developers/Temple Hills	Prince George's	2002	238	\$1,855.00	
Truxon/Hillsboro	Caroline	2003	758	\$1,799.00	
Goodyear/Elkton	Cecil	2003	1,013	\$1,200.00	
McMannis/Cumberland	Allegany	1997	887	\$998.00	
Carter/Queenstown	Queen Anne's	1998	1,117	\$982.00	
Spencer/Golts	Kent	1997	230	\$950.00	
Wilkinson/Oldtown	Allegany	2002	248	\$800.00	
Holley/Collins Road	Somerset	1997	217	\$788.00	
Lane/Princess Anne	Somerset	2003	300	\$750.00	
Turner/White Hall	Harford	2003	500	\$500.00	
Miller/Churchton	Anne Arundel	2004	16,000	\$231.50	
<b>Total Scrap Tires Removed</b>					
<b>Total Amount Sought (Through FY 2</b>	\$3,088,508.90				

# **Scrap Tire Projects**

MES has the primary role in the planning and implementation of scrap tire projects to promote the development of new technologies for recycling scrap tires while reducing, recovering, and recycling scrap tires from stockpiles in Maryland.

## **Projects Planned for FY 2019**

#### **Agricultural Scrap Tire Drop-Off Event Project**

- The Department, in conjunction with MES and the Maryland Farm Bureau, Inc. ("MFB"), is planning a regional Agricultural Scrap Tire Drop-Off Event in several Maryland counties (to be determined based on available funding).
- The events are expected to be held during the winter of FY 2019.
- Agricultural scrap tire drop-off events will be planned for other regions in future fiscal years, based on need and available funding.
- Over 7,263 tons of agricultural scrap tires (the equivalent of over 726,300 passenger tires) have been collected from farmers during past events of this type.

# Licensing

Under Section 9-228 of the Environment Article, the Department is required to license facilities that collect or process scrap tires, as well as scrap tire haulers.

This comprehensive licensing program allows for the efficient management of scrap tires:

- From the point of generation;
- Via a licensed or approved transportation system; and
- To a licensed or approved scrap tire facility for the transfer, collection, or processing of the scrap tires.

The Department issues the following types of scrap tire licenses and approvals:

- Scrap Tire Recycler License For a facility that converts scrap tires into marketable products.
- Scrap Tire Collection Facility License For a facility that collects or accumulates scrap tires temporarily on a site and transfers scrap tires to licensed or approved scrap tire facilities. There are three categories of collection facility licenses:
  - o General License: Sites with up to 50 scrap tires at any given time.
  - o **Secondary License**: Sites with up to 1,500 scrap tires at any given time.
  - o **Primary License**: Sites with more than 1,500 scrap tires at any given time, based on the capacity of the facility.
- Scrap Tire Hauler License For a person who, as a part of a commercial business, transports scrap tires in the State.
- Substitute Fuel/Tire Derived Fuel (TDF) Facility Approval For a facility that uses whole or chipped scrap tires to replace or supplement existing fuel sources.
- Solid Waste Acceptance Facility Approval For a permitted refuse disposal or acceptance facility that accepts scrap tires for collection or processing.

## Licensing Accomplishments in FY 2018

TOTAL

• A total of 159 new and 103 renewal scrap tire licenses were issued (see Table V).

159

Туре	New	Renewed	Total Issued (FY 2018)	Total Valid Licenses
General Collection	65	N/A	65	1,457
Secondary Collection	51	57	108	1,040
Primary Collection	0	0	0	4
Recyclers	0	0	0	4
TDF Facility	0	0	0	2
Solid Waste	0	0	0	1
Haulers	43	46	89	674

103

262

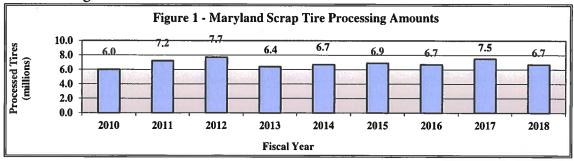
3,182

Table V - Scrap Tire Licenses in FY 2018

# **Scrap Tire Markets and Market Development**

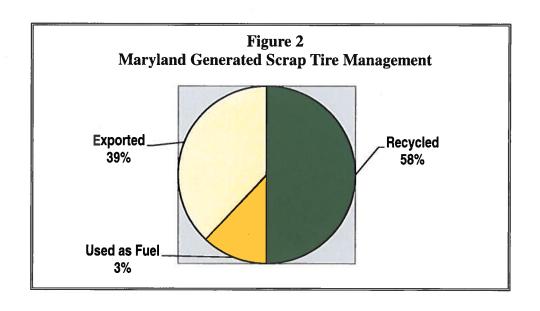
## **Market Analysis**

- All licensed or approved scrap tire facilities and haulers are required to submit semiannual reports to the Department. The reports must include:
  - The origin and number of scrap tires received, collected, or processed at the facility;
  - o The scrap tire haulers that transported the scrap tires;
  - o The quantity of scrap tires transported, in number or weight; and
  - o The facilities where the scrap tires were deposited.
- There is no data currently available on actual amounts of scrap tires generated, so an estimate based on population is used. Based on the assumption that scrap tires are generated at a rate of one tire per person per year, the most recent census numbers were used to estimate that 6.1 million scrap tires were generated in Maryland during FY 2018. The actual number of scrap tires generated could vary (up or down) from the estimate due to factors such as economic conditions, special government programs, product recalls, etc.
- During FY 2018, the State's scrap tire processing facilities managed approximately 6,700,918 scrap tires generated from Maryland and imported from out-of-State facilities (see Tables VI, VII, and VIII).
  - o This represents an 11 percent decrease from the previous year (see Figure 1). The 6,700,918 scrap tires processed include approximately 55 percent (3,706,362) Maryland generated and 45 percent (2,994,556) imported scrap tires.
  - o Of the 6,700,918 scrap tires processed, approximately 95 percent (6,369,917) were recycled, a 4 percent decrease from the percentage reported in FY 2017. The remaining 5 percent (331,001) were used as fuel.
  - o Tables VI, VII, and VIII provide details on the scrap tires processed at Maryland licensed scrap tire processing facilities in FY 2018.
- Of the estimated 6.1 million Maryland-generated scrap tires, approximately 58 percent (3,511,961) were recycled in Maryland facilities and 3 percent (194,401) were used as fuel in Maryland facilities during FY 2018. The remaining 39 percent of the scrap tires (2,393,638) were exported (see Figure 2 and Figure 3).
  - Overall, the scrap tire generation, processing, and handling of Maryland-generated scrap tires follow the traditional trends, although the percent of Maryland scrap tires recycled versus used as tire derived fuel decreased from 98 percent in FY 2017 to 95 percent in FY 2018 (3,511,691 scrap tires recycled versus 194,401 scrap tires used as fuel in FY 2018). This was due to Holcim increasing its use of tire derived fuel in FY 2018.



**Table VI – Maryland Licensed Scrap Tire Processing Facilities** 

Facility Name/Type	Location	Operation	Telephone	Tires Processed in FY 2018
Emanuel Tire Company/ Recycler	1300 Moreland Ave Baltimore MD 21216	The company has been processing scrap tires for the last four decades. The operation converts scrap tires into 1 to 2 inch size tire chips.	(410) 947-0660	5,475,218
Auston Tire Recycling/ Recycler	1202 Pauls Lane Joppa MD 21085	Processes scrap tires into products, such as rubber mulch material for landscaping or playgrounds.	(410) 335-1016	642,699
Holcim US, Inc./ TDF	1260 Security Road Hagerstown MD 21741	The operation utilizes tire chips as a supplemental fuel in its cement kiln to generate up to 35 percent of the process heat needed to convert the raw material into cement.	(301) 739-1150	306,000
K & K Tire, Inc./ Recycler	816 Oregon Avenue Linthicum MD 21090	Processes scrap tires into products, such as rubber mulch material for landscaping or playgrounds.	(410) 636-2002	252,000
Wheelabrator Baltimore LP (BRESCO)	1801 Annapolis Road Baltimore MD 21230	The facility has been approved to burn scrap tires with municipal solid waste.	(410) 234-0808	25,001
Fort Detrick	393 Beasly Road Frederick MD 21702	The facility burns scrap tires with solid waste and medical waste.	(301) 619-2323	0
A2Z Scrap Tire Recycling Facility	250 S. Kresson Street, Baltimore, MD 21224	The facility has been approved to process scrap tires into products, such as rubber mulch material for landscaping or playgrounds.	(410) 679-8877	0
TOTAL				6,700,918



Note, in the following tables green text represents Scrap Tire Recycling Facilities data and orange text represents TDF facilities data.

# **Table VII- Maryland Scrap Tire Processor Data**

Facility	July-December 2017	January-June 2018	FY 2018
Emanuel Tire Company	1,756,446	860,816	2,617,262
Auston Tire Recycling	304,095	338,604	642,699
Holcim US, Inc.	132,000	37,400	169,400
K & K Tire, Inc.	900	251,100	252,000
Wheelabrator Baltimore LP	10,170	14,831	25,001
Fort Detrick	0	0	0
A2Z Scrap Tire Recycling Facility	0	0	0
TOTAL:	2,203,611	1,502,751	3,706,362
Recycled:	N .		3,511,961
Used as Fuel:			194,401

	Out-of-State Tires				
Facility	July-December 2017	January-June 2018	FY 2018		
Emanuel Tire Company	1,644,643	1,213,313	2,857,956		
Auston Tire Recycling	0	0	0		
Holcim US, Inc.	108,000	28,600	136,600		
K & K Tire, Inc.	0	0	0		
Wheelabrator Baltimore LP	0	0	0		
Fort Detrick	0	0	0		
A2Z Scrap Tire Recycling Facility	0	0	0		
TOTAL:	1,752,643	1,241,913	2,994,556		
Recycled:			2,857,956		
Used as Fuel:			136,600		

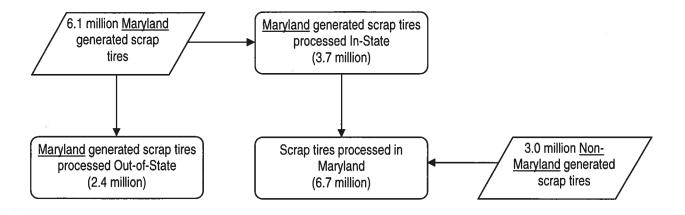
	Percer	nt Change from FY 2017 to I	FY 2018
Facility	Decrease	Increase	None
Emanuel Tire Company	12%		
Auston Tire Recycling	49%		
Holcim US, Inc.		394%	
K & K Tire, Inc.	-	6,575%*	
Wheelabrator Baltimore LP	24%		
Fort Detrick	100%		, , , , , , , , , , , , , , , , , , , ,
A2Z Scrap Tire Recycling Facility			0%
TOTAL:	11%		<u>.</u>
Recycled:	14%		
Used as Fuel:		249%	

<sup>\*</sup>Semi-annual reporting data for K & K Tire, Inc. was misinterpreted in previous fiscal years as number of scrap tires, instead of tons of scrap tires. This error has been corrected for FY 2018, skewing the percent change calculation.

Table VIII - Processing of Maryland and Out-of-State Scrap Tires

Facility Name/Type	MD Tires	Out-of-State Tires	Tires Processed in FY 2018
Emanuel Tire Company/ Recycler	2,617,262	2,857,956	5,475,218
Auston Tire Recycling/ Recycler	642,699	0	642,699
Holcim US, Inc. (formerly St. Lawrence Cement Co.)/ TDF	169,400	136,600	306,000
K & K Tire, Inc./ Recycler	252,000	0	252,000
Wheelabrator Baltimore LP (BRESCO)	25,001	0	25,001
Fort Detrick	0	0	0
A2Z Scrap Tire Recycling Facility	0	0	0
TOTAL	3,706,362	2,994,556	6,700,918

Figure 3 – Scrap Tire Flow in FY 2018



## **Market Challenges**

The Department is aware through communication with stakeholders, licensees, and property owners with illegal stockpiles that the scrap tire markets in the Mid-Atlantic and New England regions have been slowing and/or declining in recent years. This is, in part, due to the current low petroleum prices, which impact the tire-derived fuel markets. The market slowdown is negatively affecting how quickly scrap tires are hauled from licensed sites and illegal stockpile sites to the scrap tire processing facilities, the amount of scrap tires able to be processed by the processors, the prices of recycled scrap tire products, and the cost for hauling and processing of scrap tires. This may have contributed to the 11% decrease in the number of scrap tires processed by Maryland facilities during FY 2018.

Continued emphasis needs to be given to market development of scrap tire products and processed raw materials. The Department is exploring options with MES for other potential solutions to the slow and declining scrap tire markets, including revisiting the Scrap Tire System that MES is required to establish and maintain under Section 9-228(c) of the Environment Article to ensure that there is processing capacity to manage all of the scrap tires generated in Maryland.