



May 2017

# 2015 U.S. Scrap Tire Management Summary

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# U.S. Scrap Tire Disposition 2015

Market or Disposition	Thousands of Tons	Millions of Tires	% change 2013-2015
Tire-Derived Fuel	1922.67	117.31	-9.3%
Cement Kilns	753.37	45.97	3.8%
Pulp & Paper	616.25	37.60	-14.0%
Electric Utilities	553.05	33.74	-4.0%
Industrial Boilers	0.00	0.00	
Dedicated Tires-to-Energy	0.00	0.00	-100.0%
Ground Rubber	1020.75	62.28	4.7%
Civil Engineering	274.92	16.77	59.8%
Exported	102.07	6.23	-58.5%
Electric Arc Furnace	26.00	1.59	-60.3%
Reclamation Projects	52.54	3.21	6.9%
Agricultural	7.10	0.43	0.0%
Baled Tires/market	9.19	0.56	-69.4%
Punched/ Stamped	41.20	2.51	2068.4%
Other	94.86	5.79	
Total to Market	3551.30	216.69	-3.2%
Generated	4038.80	246.43	5.6%
% to Market/Utilized	87.9%	87.9%	N/A
Land Disposed	451.40	27.54	37.7%
<b>% Managed (includes Markets, Baled and Landfill)</b>	99.1%	99.1%	N/A

# U.S. Scrap Tire Market Summary (2007 – 2015)

(in thousands of tons)

Market or Disposition	2007	2009	2011	2013	2015
Ground Rubber	789.09	1354.17	1093.50	975.00	1020.75
Land Disposed	593.98	653.38	491.65	327.78	451.40
Exported	102.08	102.10	302.48	245.84	102.07
Civil Engineering	561.56	284.92	294.99	172.00	274.92
Reclamation Projects	132.58	130.00	54.29	49.17	52.54
Electric Arc Furnace	27.14	27.10	65.55	65.56	26.00
Baled Tires/market	UNK	27.76	1.92	30.00	9.19
Agricultural	7.13	7.10	7.10	7.10	7.10
Punched/ Stamped	1.85	1.90	1.90	1.90	41.20
Baled/no market	9.31	15.57	32.78	No data	No data
Used Tires <sup>1</sup>	n/a	371.25	n/a	n/a	n/a
Other					94.86
Total to Market	4105.79	4391.05	3083.76	3666.85	3551.30
Generated <sup>2</sup>	4595.72	5170.50	3781.00	3824.26	4038.80
% to Market/Utilized	89.3%	84.9%	81.6%	95.9%	87.9%
% Managed (incl. baled and landfilled tires)	102.5%	97.9%	95.4%	104.5%	99.1%

<sup>1</sup>The U.S. Scrap Tire Market Summary began tracking tires culled from scrap tire collection entering domestic passenger and light truck used tire markets in 2009 by including used tires as a market for scrap tires. The U.S. Scrap Tire Market Summary now subtracts used tires from the total tires hauled to calculate total net scrap tire generation, a practice that began with the 2011 edition.

<sup>2</sup>In the 2005 and 2007, U.S. Scrap Tire Market Reports, annual scrap tire generation estimates were based on state-provided data. Now, these estimates are based on a calculation of replacement market tires sold and vehicles scrapped, a practices that began with the 2009 edition.

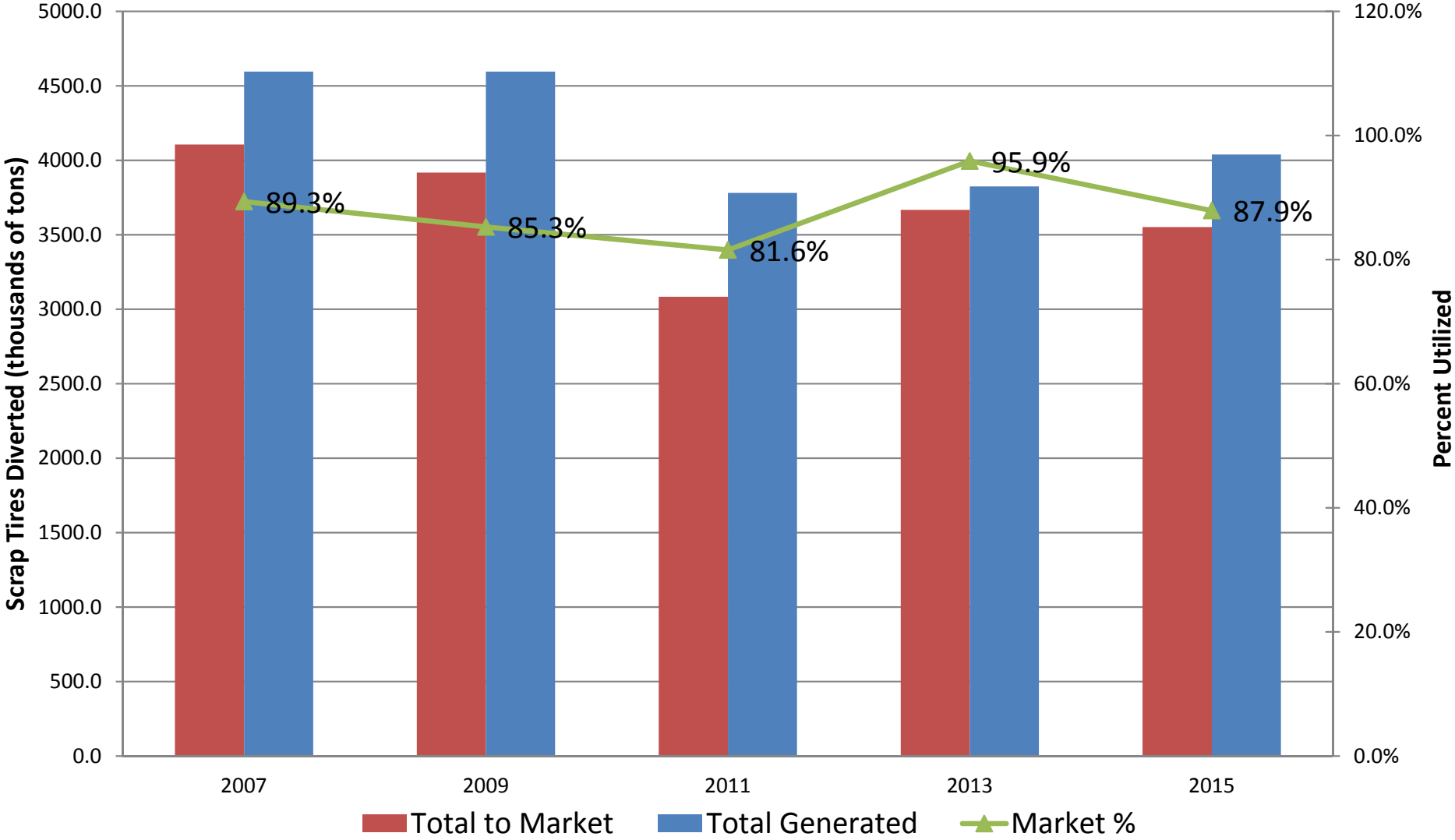
# U.S. Scrap Tire Generation 2015

Tire Class	Millions of Tires	Market %	Average Weight (lbs)	Weight (thousands of tons)
<b>Light Duty Tires</b>	<b>248.8</b>	<b>89.0%</b>	<b>22.5</b>	<b>2799.0</b>
Passenger tire replacements <sup>1</sup>	206.1	73.7%		
Light truck tire replacements <sup>1</sup>	29.1	10.4%		
Tires from scrapped cars <sup>2</sup>	13.6	4.9%		
<b>Commercial Tires</b>	<b>30.9</b>	<b>11.0%</b>	<b>120.0</b>	<b>1854.0</b>
Medium, wide base, heavy truck replacement tires <sup>1</sup>	17.9	6.4%		
Tires from scrapped trucks and buses <sup>2</sup>	13.0	4.6%		
<b>Total tires hauled</b>	<b>279.7</b>	<b>100.0%</b>	<b>33.3</b>	<b>4653.0</b>
<b>Used tires culled</b>	<b>36.9</b>	<b>13.2%</b>	<b>33.3</b>	<b>614.2</b>
<b>Net scrap tires</b>	<b>242.8</b>			<b>4038.8</b>

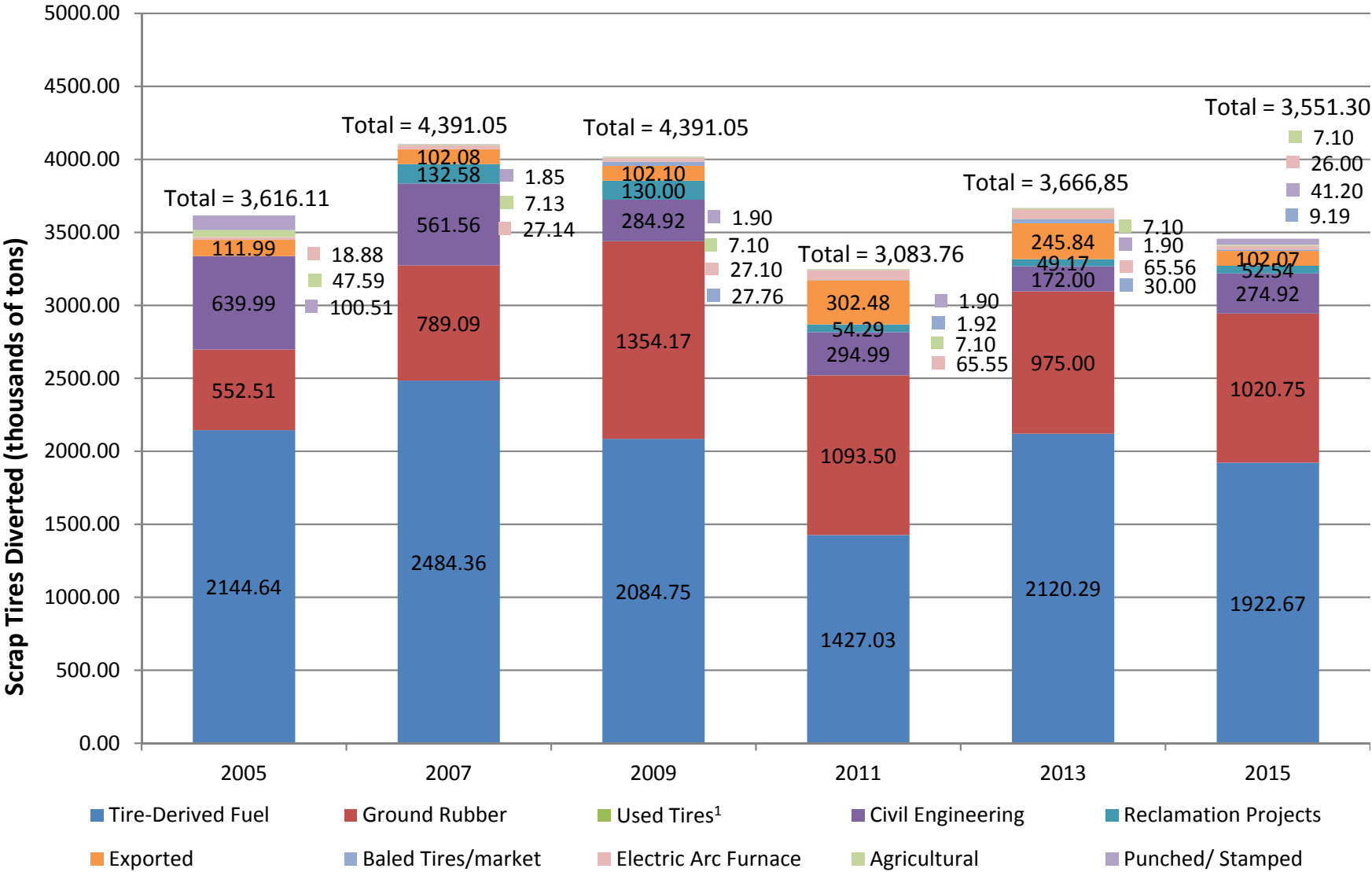
<sup>1</sup> Factbook 2014: U.S. Tire Shipment/Activity Report for Statistical Year 2013, Rubber Manufacturers Association.

<sup>2</sup> Ward's Motor Vehicle Facts and Figures, 2014. Includes the total number of vehicles removed from service in 2013. In 2013, Ward's did not publish vehicles retired from service separated for the car and truck/bus category. Instead, it only published total vehicles scrapped from service. RMA estimated the split between cars and trucks/buses based on the average of the split from 2002 - 2012. Assumes two tires scrapped from light duty vehicles and 2.5 tires scrapped from trucks and buses.

# U.S. Scrap Tire Market Trends 2007 - 2015



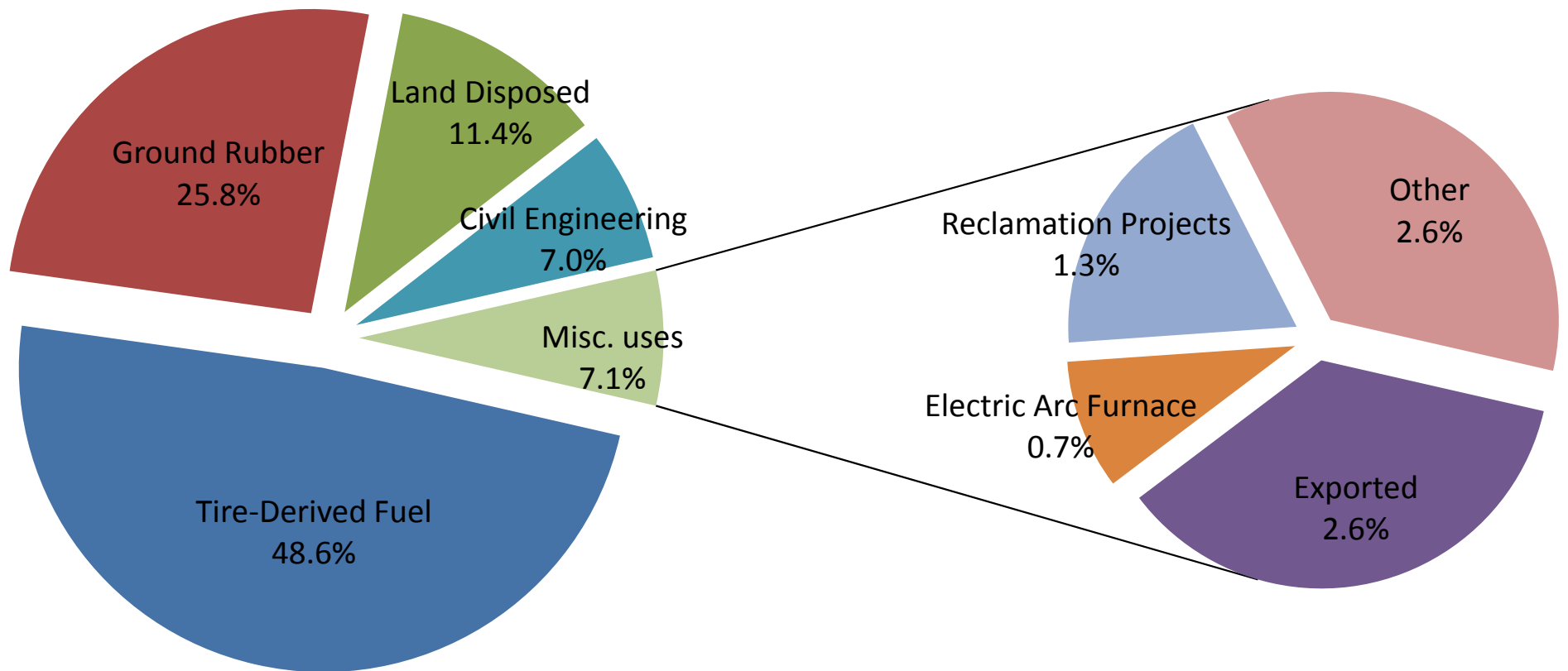
# U.S. Scrap Tire Market Trends 2005 – 2015



<sup>1</sup>The U.S. Scrap Tire Market Summary began tracking tires culled from scrap tire collection entering domestic passenger and light truck used tire markets in 2009 by including used tires as a market for scrap tires. The U.S. Scrap Tire Market Summary now subtracts used tires from the total tires hauled to calculate total net scrap tire generation, a practice that began with the 2011 edition.

# U.S. Scrap Tire Disposition 2015

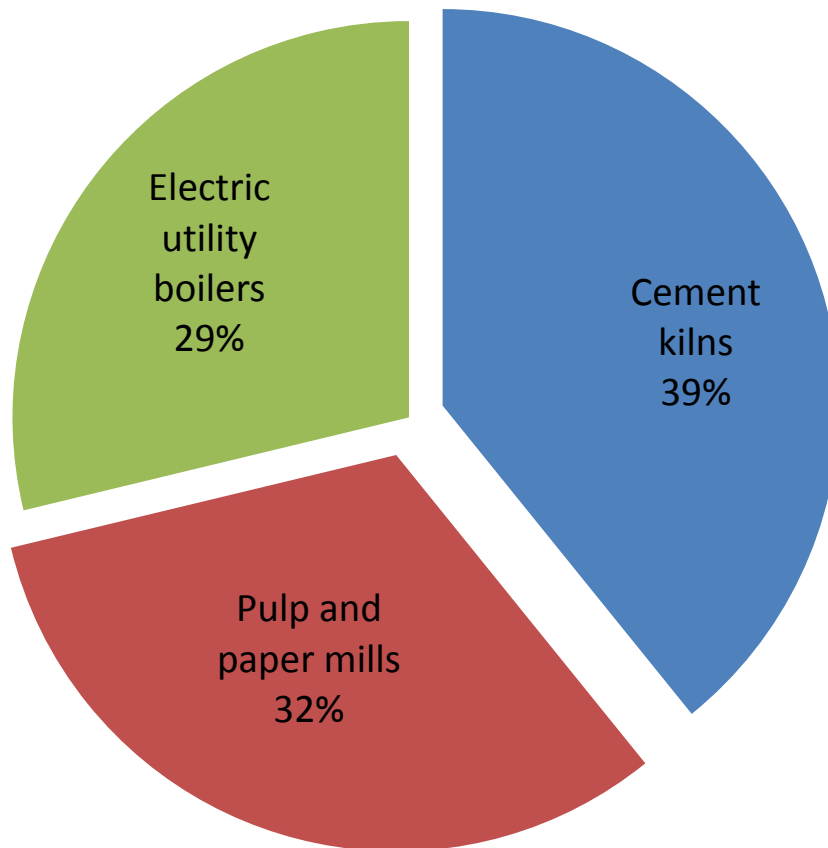
(percent of total tons generated annually)



*Numbers may not add due to rounding.*

# U.S. Tire-Derived Fuel Markets 2015

U.S. TDF Markets 2015

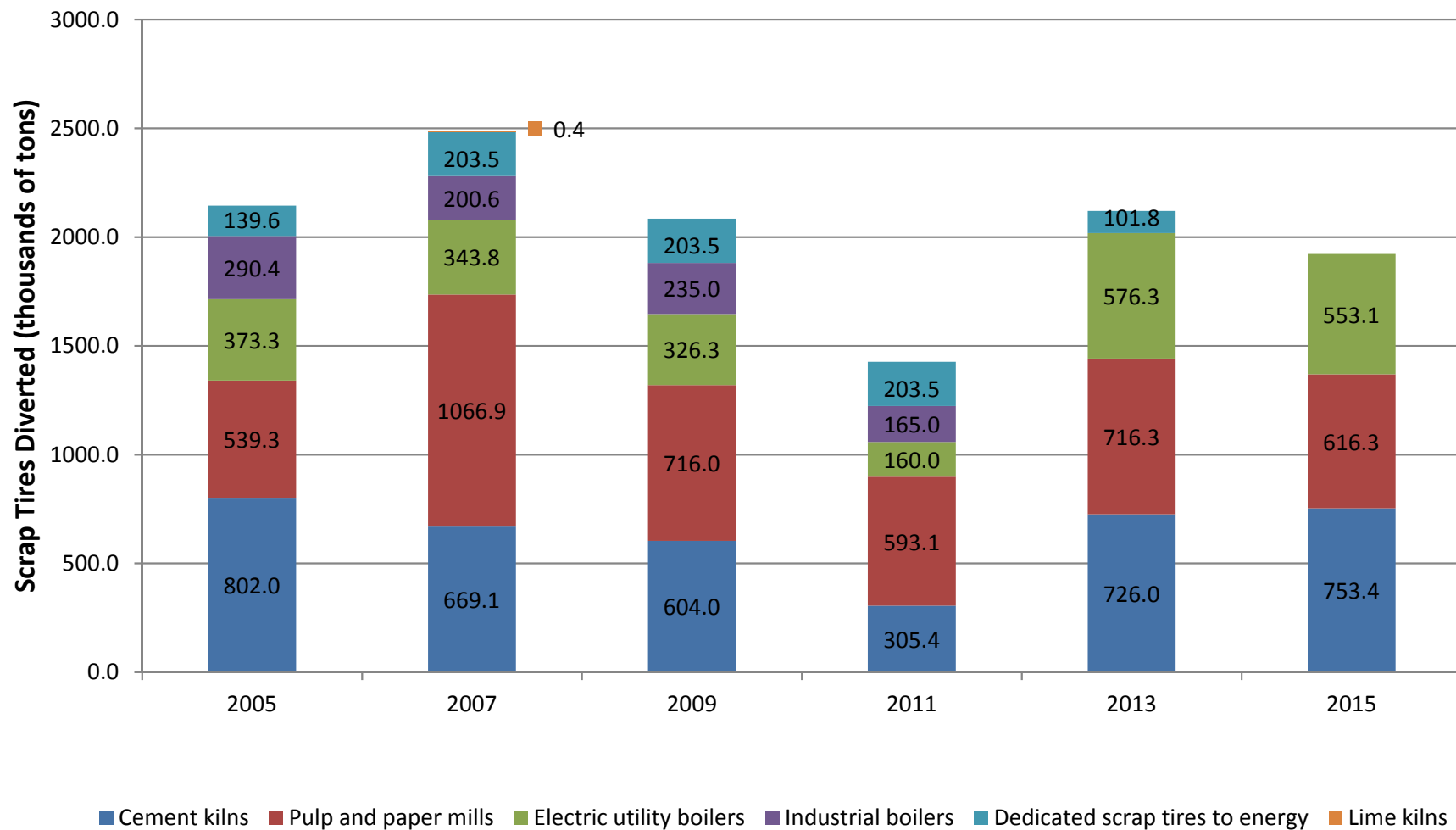


## ***Did you know?***

Total scrap tires diverted to TDF market: 1,922,000 tons or over 117 million tires

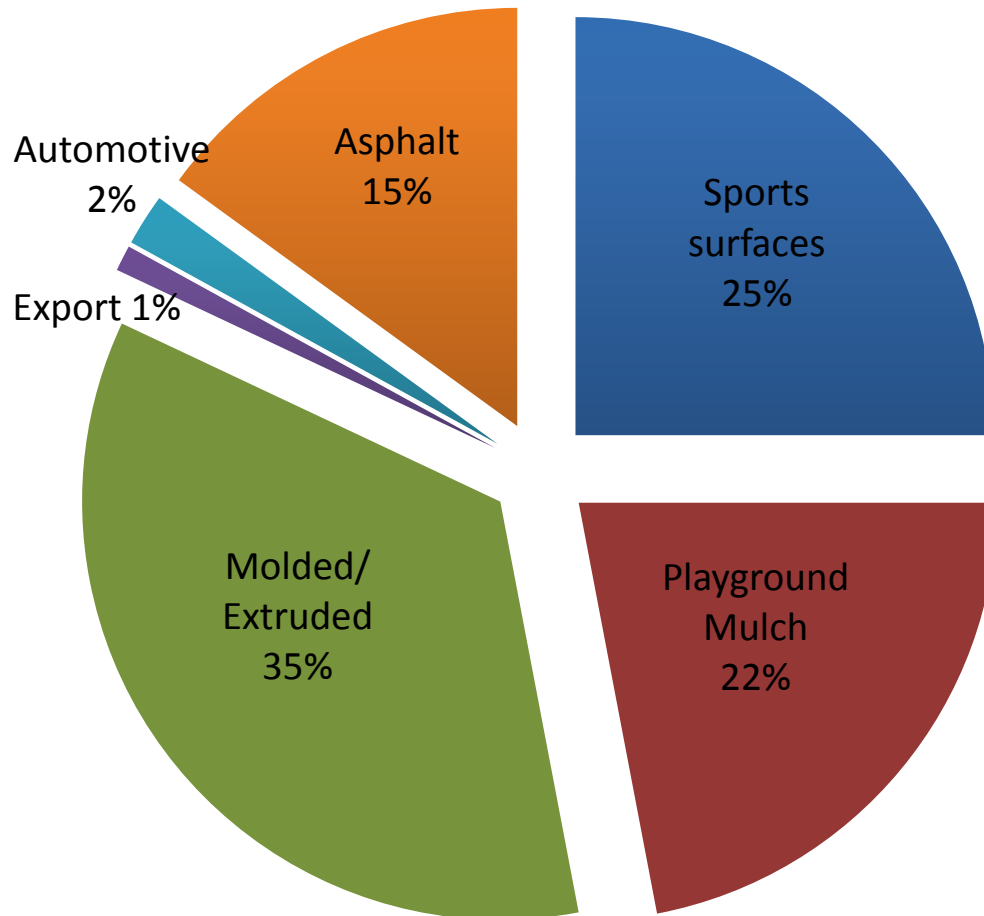


# U.S. Tire-Derived Fuel Market Trends 2005 – 2015



# U.S. Ground Rubber Markets 2015

(percent of total pounds of ground rubber consumed in market)



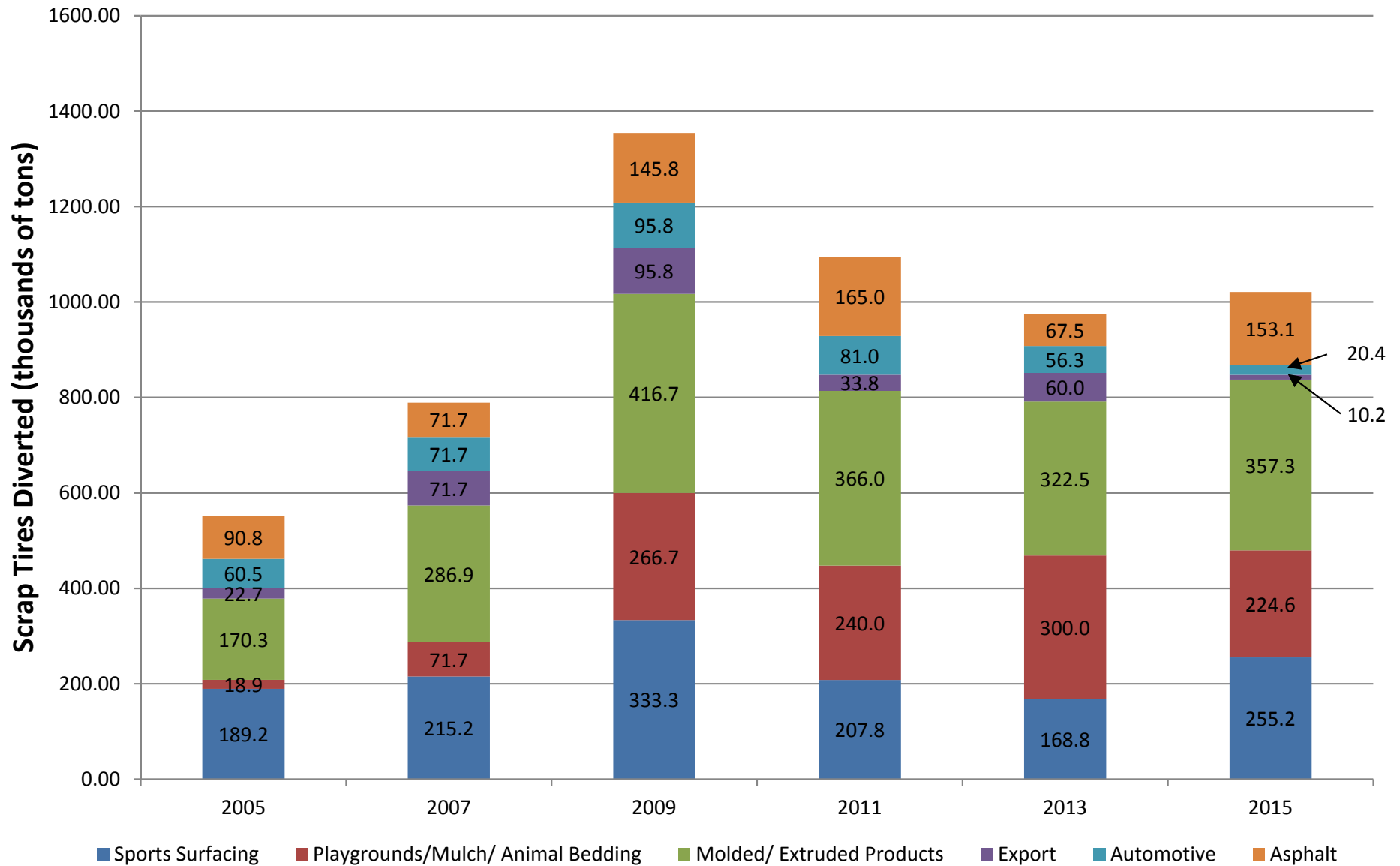
## ***Did you know?***

Total tire rubber consumed in ground rubber markets:  
*about 1,360,000,000 pounds<sup>1</sup>*

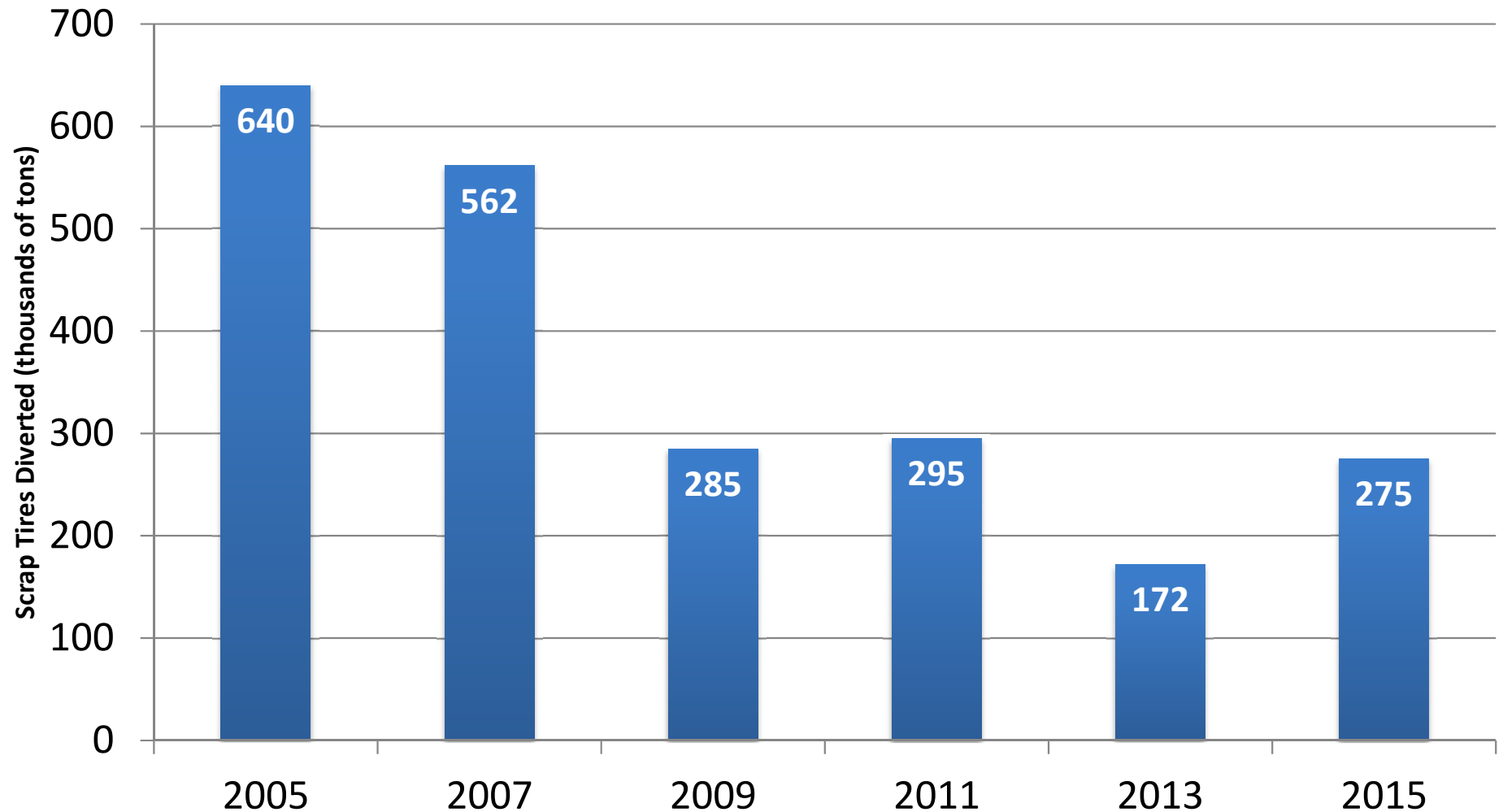
Total scrap tires diverted to these markets:  
*About 1,020,000 tons or over 62 million tires*

<sup>1</sup>This value represents the weight of processed ground rubber (with wire, fluff and agglomerated rubber removed) that is consumed in ground rubber end-use markets. In contrast, the data represented in other areas of this report refer to the weight of whole tires diverted to all scrap tire markets, including ground rubber.

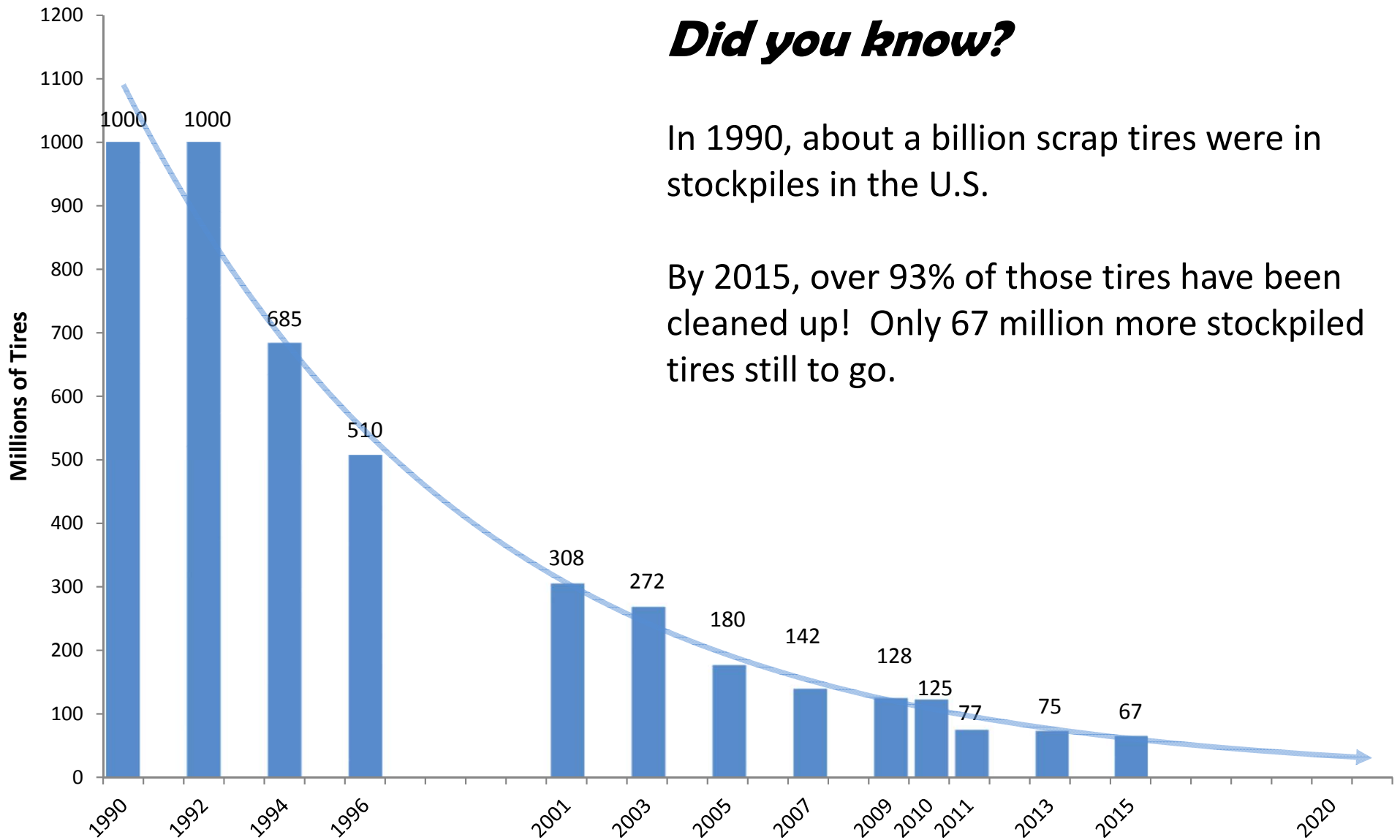
# U.S. Ground Rubber Market Distribution 2007 - 2015



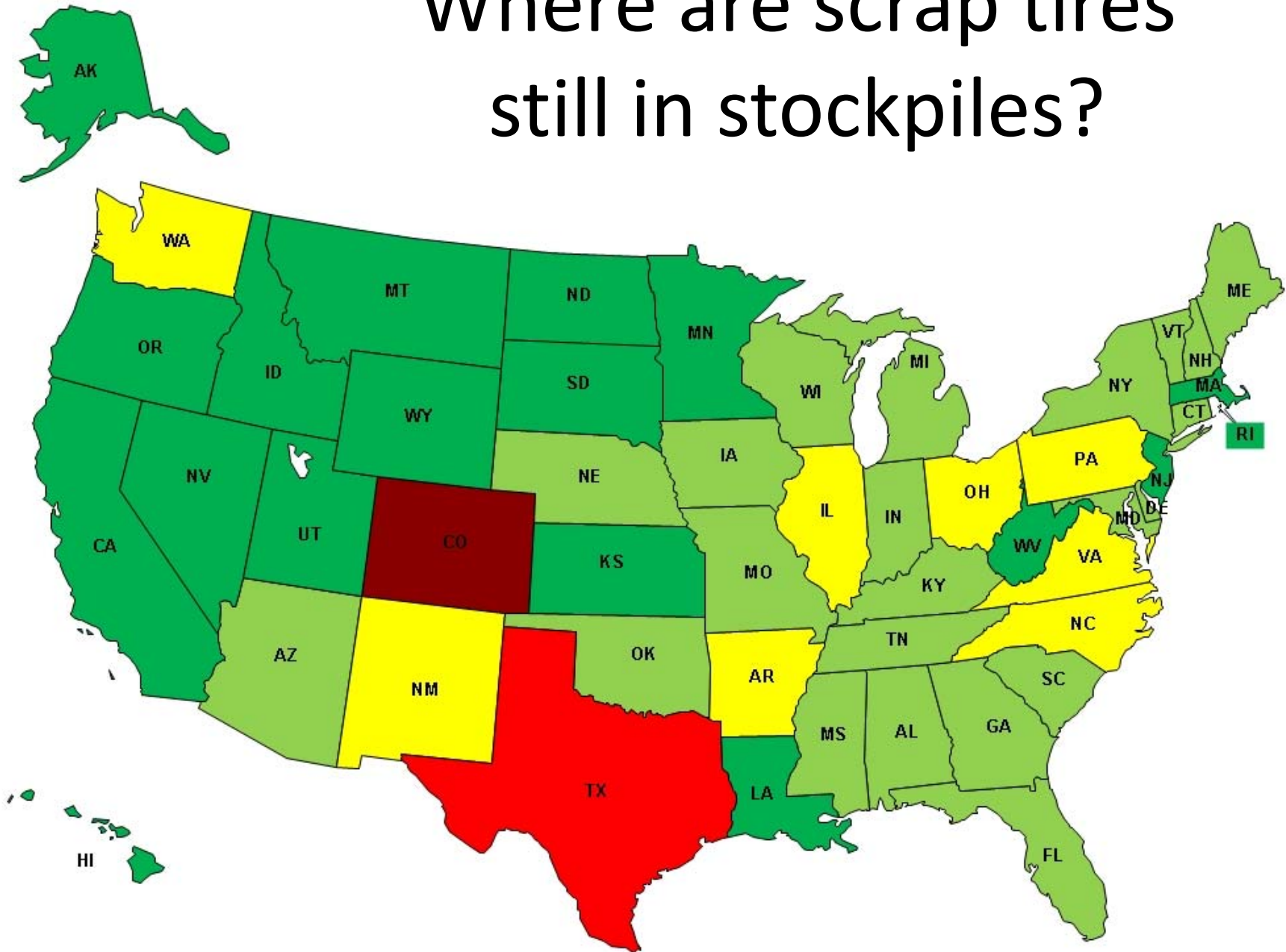
# U.S. Civil Engineering Markets 2005 - 2015



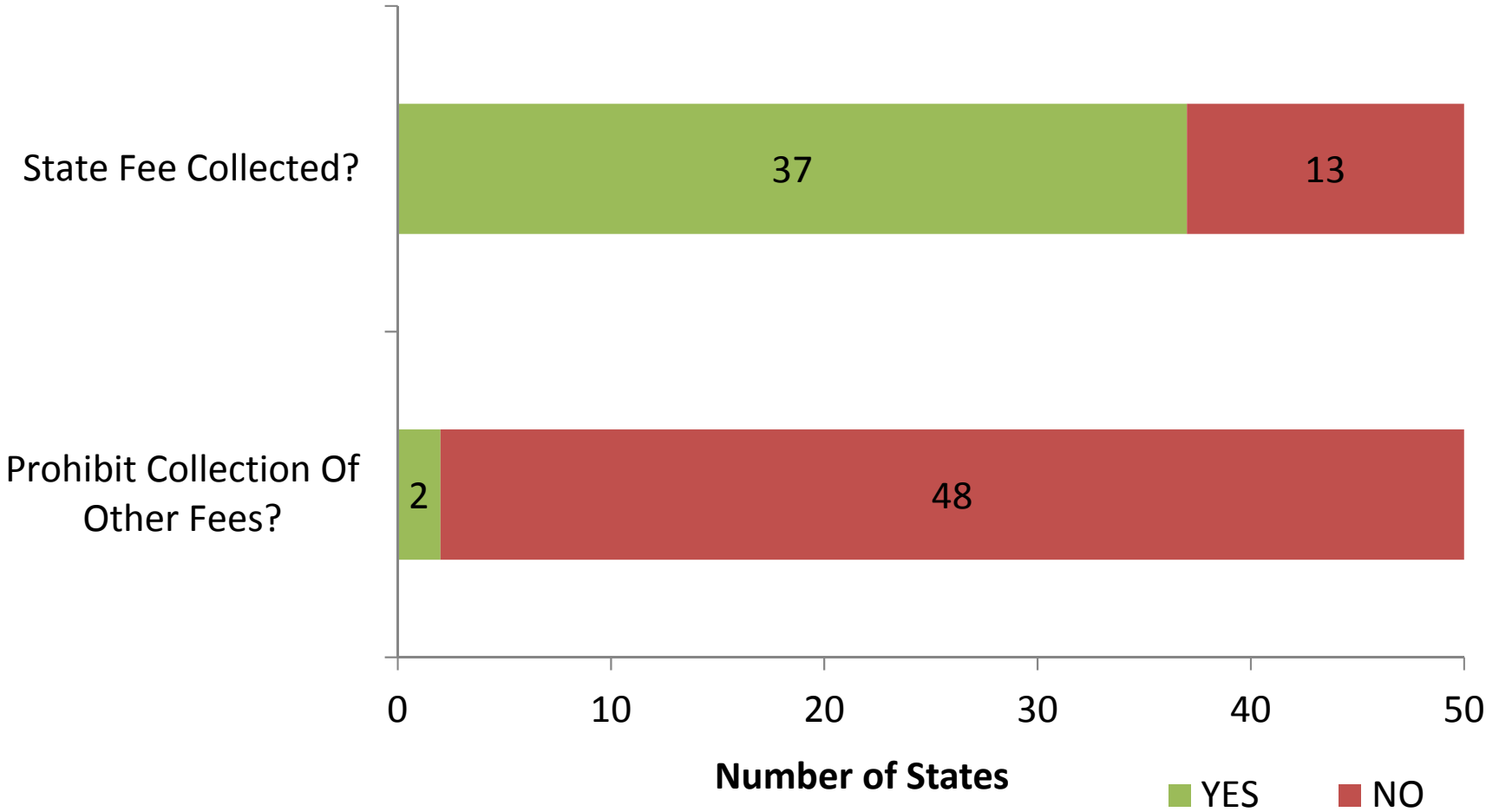
# U.S. Stockpiled Scrap Tires 1990 - 2015



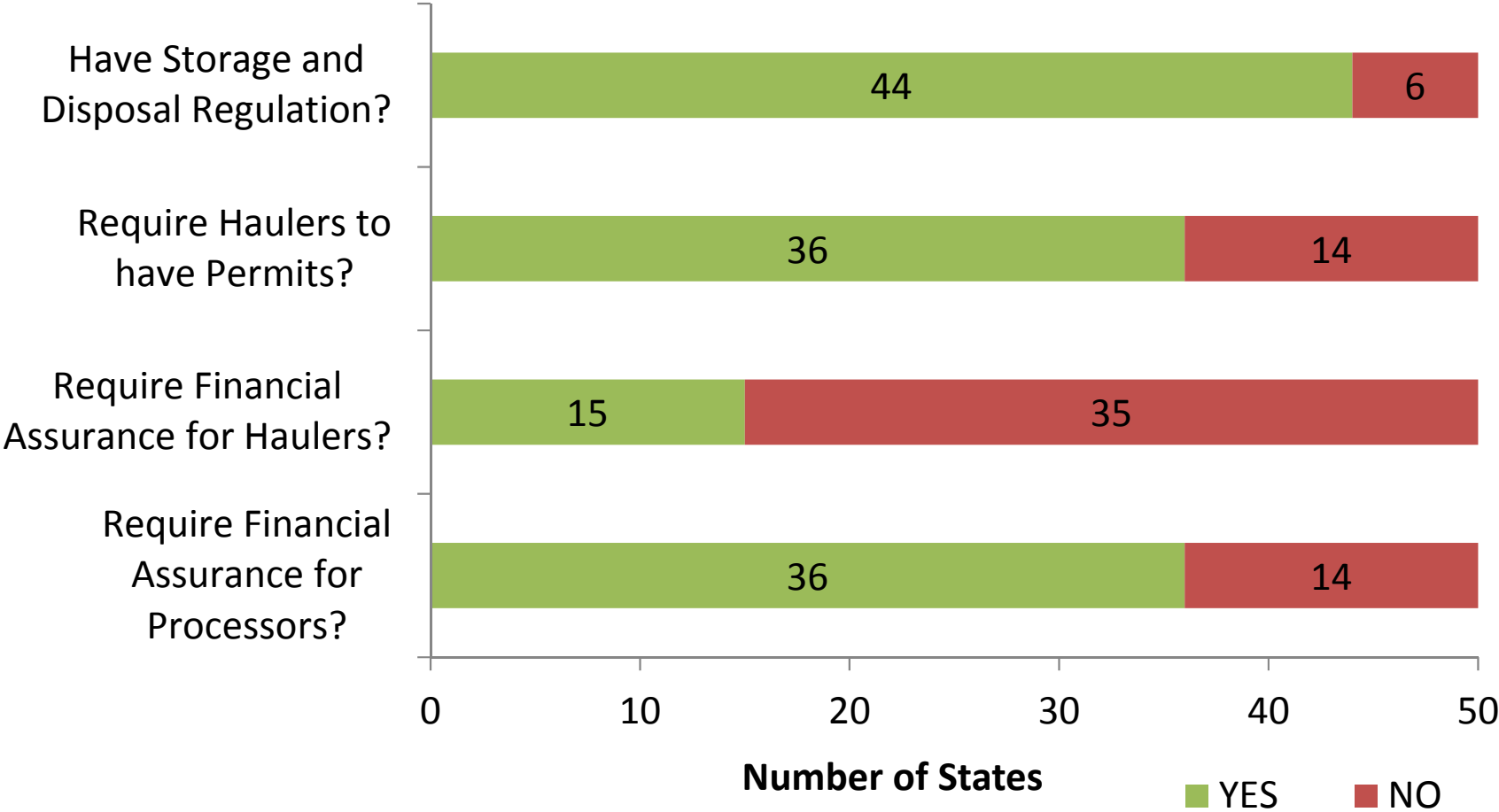
# Where are scrap tires still in stockpiles?



# Overview of Current State Programs

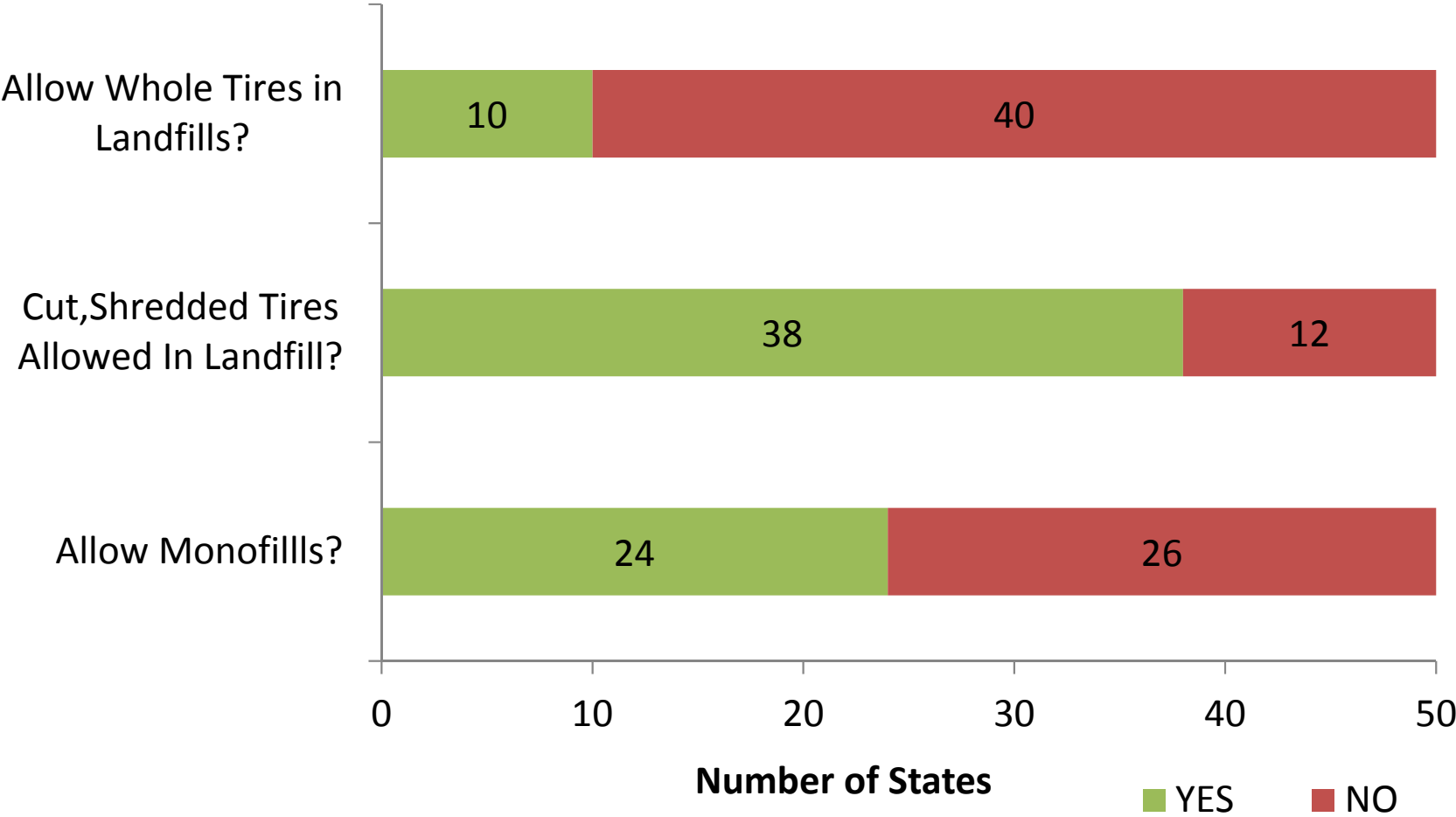


# Overview of Current State Programs

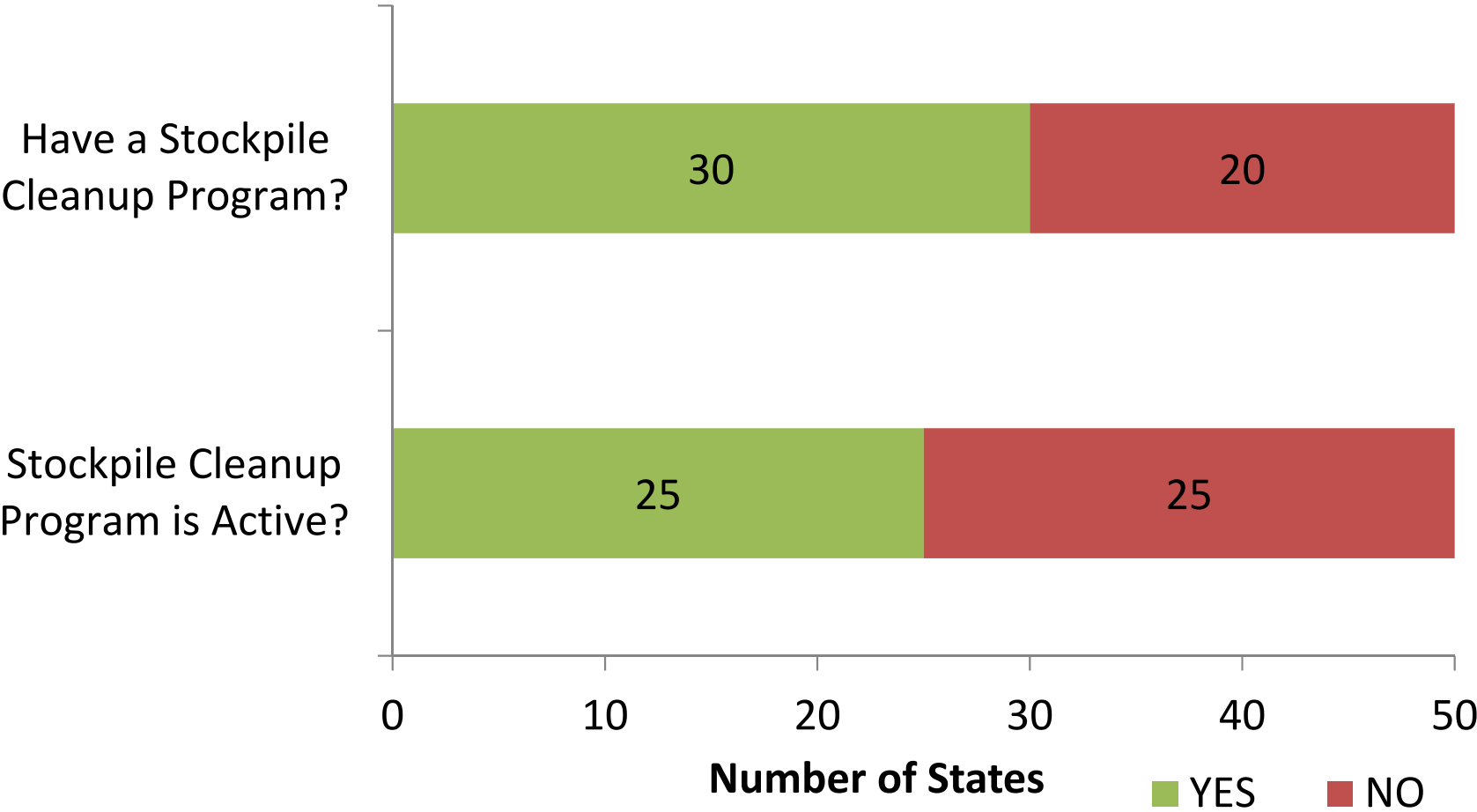




# Overview of Current State Programs



# Overview of Current State Programs





## About U. S. Tire Manufacturers Association

USTMA is the national trade association representing tire manufacturers that make tires in the United States. USTMA's scrap tire management efforts are a reflection of the tire industry's commitment to the concept of shared responsibility for its products when not suitable for use on vehicles.

USTMA began its scrap tire program in 1990 under the auspices of the Scrap Tire Management Council. USTMA works with all stakeholders, including states, U.S. EPA and the industry to develop markets, reduce scrap tire stockpiles and implement state regulations that foster sustainable scrap tire markets. USTMA supports all scrap tire markets that are environmentally sound and economically feasible.

