

RUBBER
manufacturers
association

1400 K Street, NW • Washington, DC 20005 • tel (202) 682-4800 • fax (202) 682-4854 • www.rma.org

2011 U.S. Scrap Tire Market Summary

February 11, 2013

U.S. Scrap Tire Disposition 2011

Market of Disposition	Weight (tons ³)	Millions of Tires	% change 2009-2011
Tire-Derived Fuel	1427.03	87.08	-31.5%
Ground Rubber	928.50	56.66	-20.2%
Civil Engineering	294.99	18.00	3.5%
Exported	302.48	18.46	196.3%
Electric Arc Furnace	65.55	4.00	141.9%
Reclamation Projects	54.29	3.31	-58.2%
Agricultural	7.10	0.43	0.0%
Baled Tires/market	1.92	0.12	0.0%
Punched/ Stamped	1.90	0.12	0.0%
Total to Market	3083.76	197.45	-17.4%
Generated	3781.03	230.72	-17.7%
% to Market/Utilized	81.6%	81.6%	N/A
Land Disposed	491.65	30.00	-24.8%
Baled/no market	32.78	2.00	110.5%
% Managed (includes Markets, Baled and Landfill)	95.4%	95.4%	N/A
Processor Inventory/Unknown	4.6%	4.6%	N/A

U.S. Scrap Tire Generation 2011

Tire Class	Millions of Tires	Market Percentage	Average Weight (lbs)	Weight (tons³)
Light Duty Tires	237.8	89.5%	22.5	2675.1
Passenger tire replacements ¹	194.4	73.1%		
Light truck tire replacements ¹	28.6	10.8%		
Tires from scrapped Cars ²	14.8	5.6%		
Commercial Tires	28.0	10.5%	120.0	1680.9
Medium, wide base, heavy truck replacement tires ¹	16.5	6.2%		
Tires from scrapped trucks and buses ²	11.5	4.3%		
Total tires hauled	265.8	100.0%	32.8	4356.0
Used tires culled	35.1	13.2%	32.8	575.0
Net scrap tires	230.7	86.8%	32.8	3781.0

¹Factbook 2012: U.S. Tire Shipment/Activity Report for Statistical Year 2011, Rubber Manufacturers Association.

²Ward's Motor Vehicle Facts and Figures, 2012. Includes the number of vehicles removed from service in the car/light truck, truck and bus categories in 2011. Assumes two tires scrapped from light duty vehicles and 2.5 tires scrapped from trucks and buses.

U.S. Scrap Tire Market Summary (2005 – 2011)

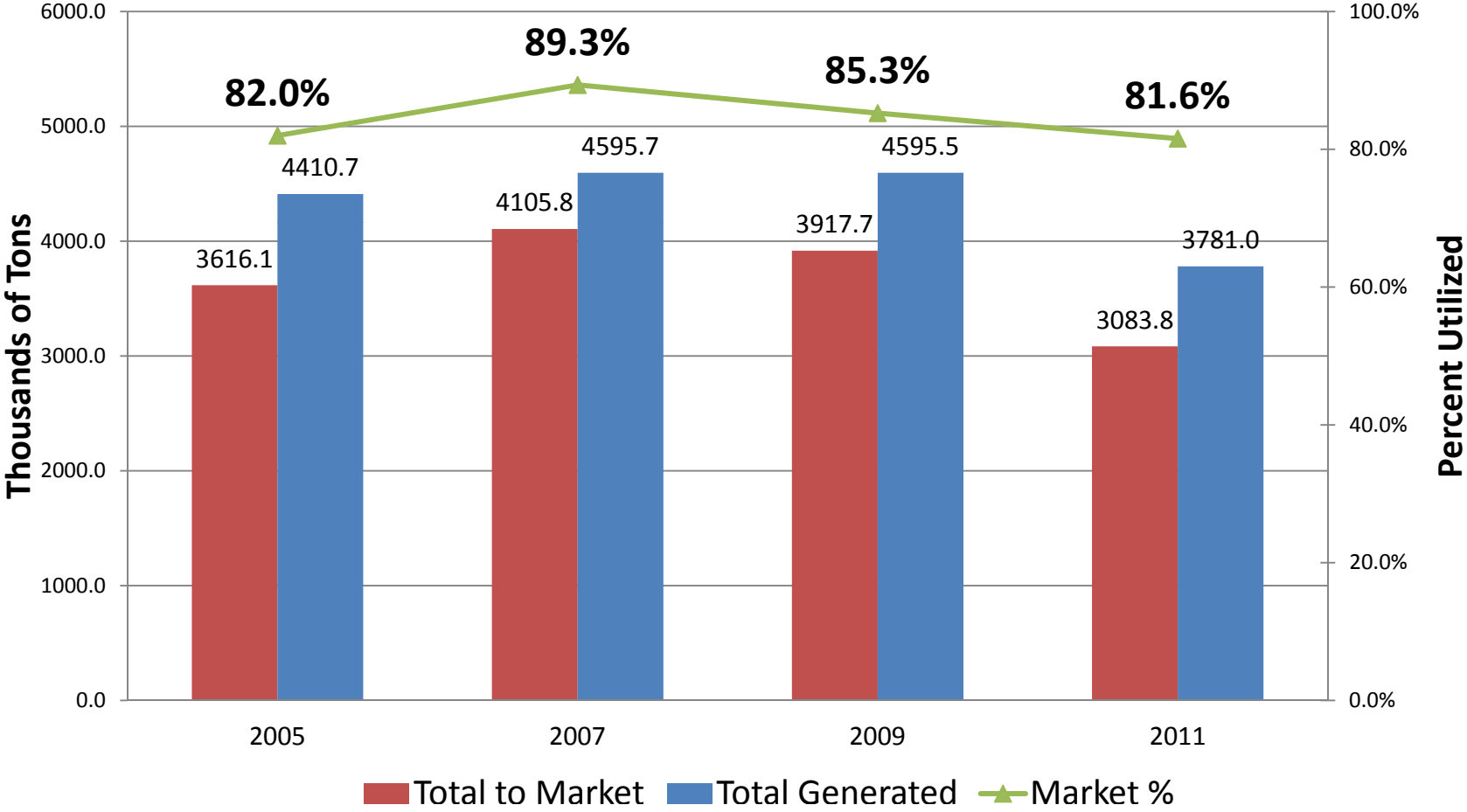
(in Thousands of Tons)

Market or Disposition	2005	2007	2009	2011
Tire-Derived Fuel	2144.64	2484.36	2084.75	1427.03
Ground Rubber	552.51	789.09	1354.17	928.50
Land Disposed	590.81	593.98	653.38	491.65
Used Tires ¹	n/a	n/a	371.25	575.00
Civil Engineering	639.99	561.56	284.92	294.99
Reclamation Projects	UNK	132.58	130.00	54.29
Exported	111.99	102.08	102.10	302.48
Baled Tires/market	UNK	UNK	27.76	1.92
Electric Arc Furnace	18.88	27.14	27.10	65.55
Baled/no market	42.22	9.31	15.57	32.78
Agricultural	47.59	7.13	7.10	7.10
Punched/ Stamped	100.51	1.85	1.90	1.90
Total to Market	3616.11	4105.79	4391.05	3083.76
Generated ²	4410.73	4595.72	5170.50	3781.00
% to Market/Utilized	82.0%	89.3%	84.9%	81.6%
% Managed (including baled and landfilled tires)	96.3%	102.5%	97.9%	95.4%

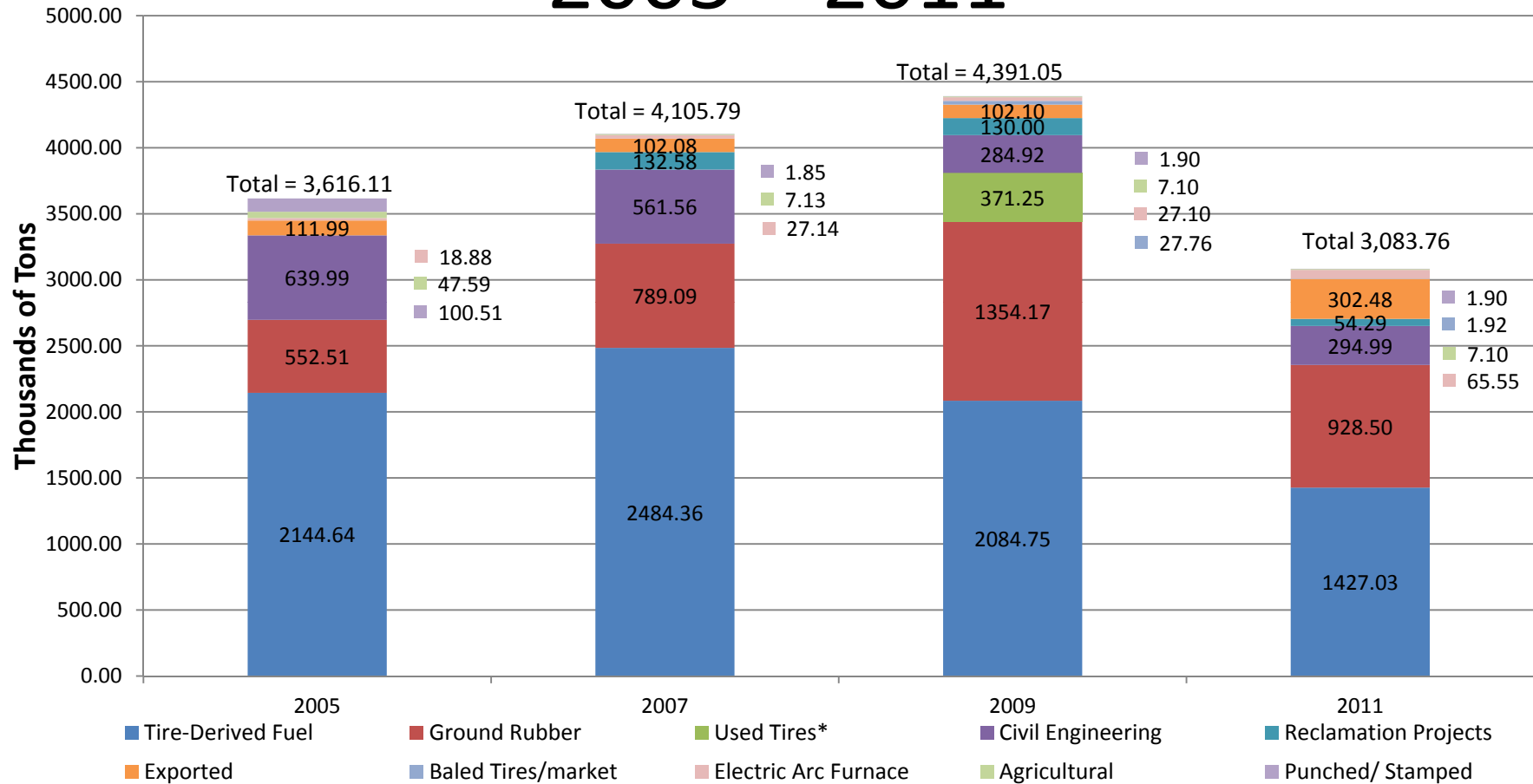
¹RMA began tracking tires culled from scrap tire collection entering domestic used passenger and light truck used tire markets in 2009. RMA changed the way it incorporated estimates of tires entering used tire markets between 2009 and 2011. In 2009, RMA included used tires as a market for scrap tires. In 2011, RMA subtracted used tires from the total tires hauled to calculate total net scrap tire generation.

²RMA changed the basis for reporting scrap tire generated annually from state-provided data in 2005-2007 to a calculation of replacement market tires sold and vehicles scrapped in 2009 and 2011.

U.S. Scrap Tire Trends 2005 - 2011



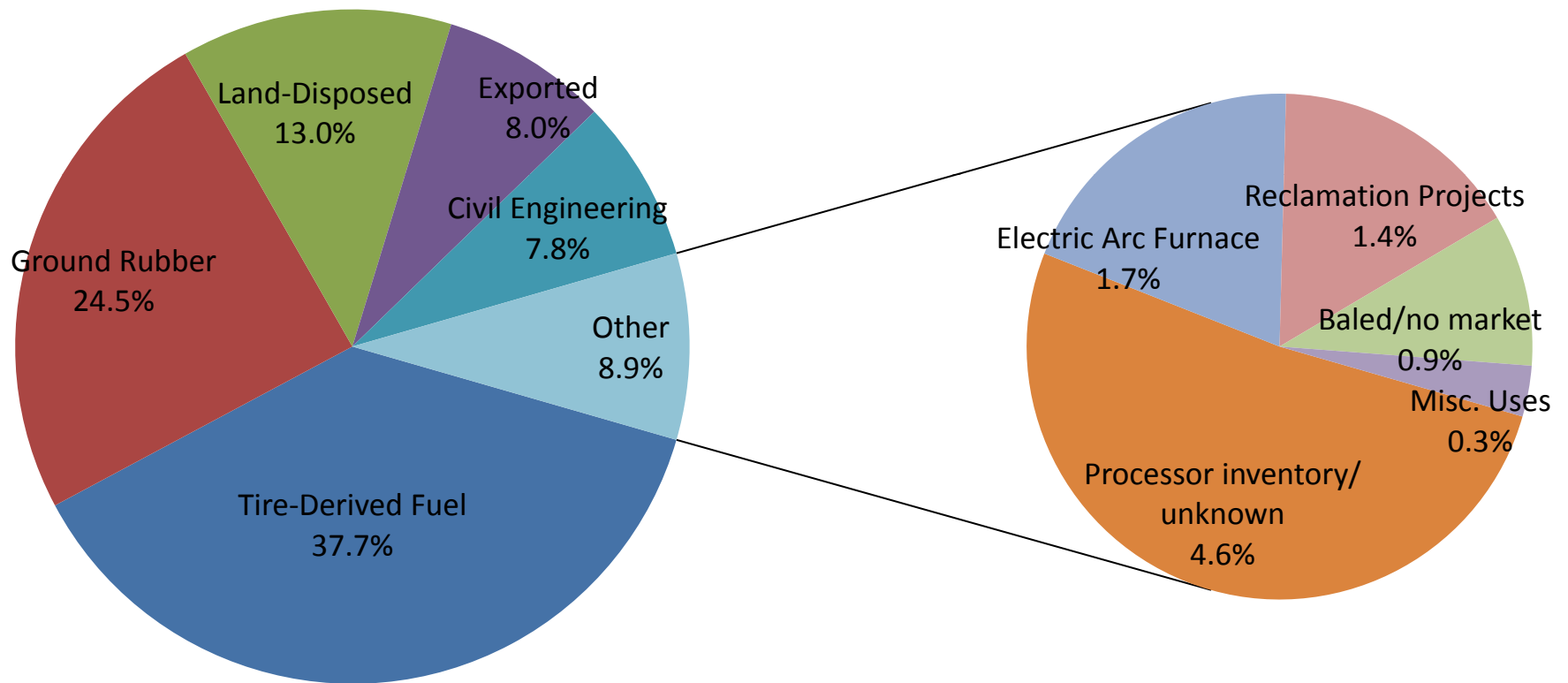
U.S. Scrap Tire Market Trends 2005 – 2011



*Please note: RMA began tracking tires culled from scrap tire collection entering domestic used passenger and light truck used tire markets in 2009. RMA changed the way it incorporated estimates of tires entering used tire markets between 2009 and 2011. In 2009, RMA included used tires as a market for scrap tires. In 2011, RMA subtracted used tires from the total tires hauled to calculate total net scrap tire generation.

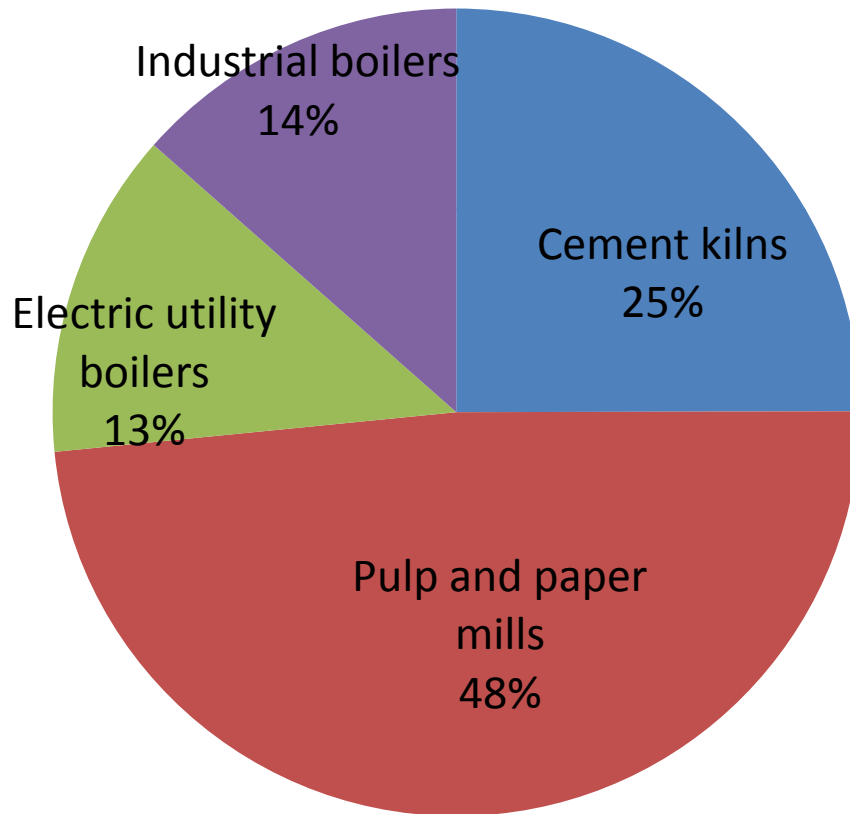
U.S. Scrap Tire Disposition 2011*

(percent of total tons generated annually)



* Numbers may not add due to rounding.

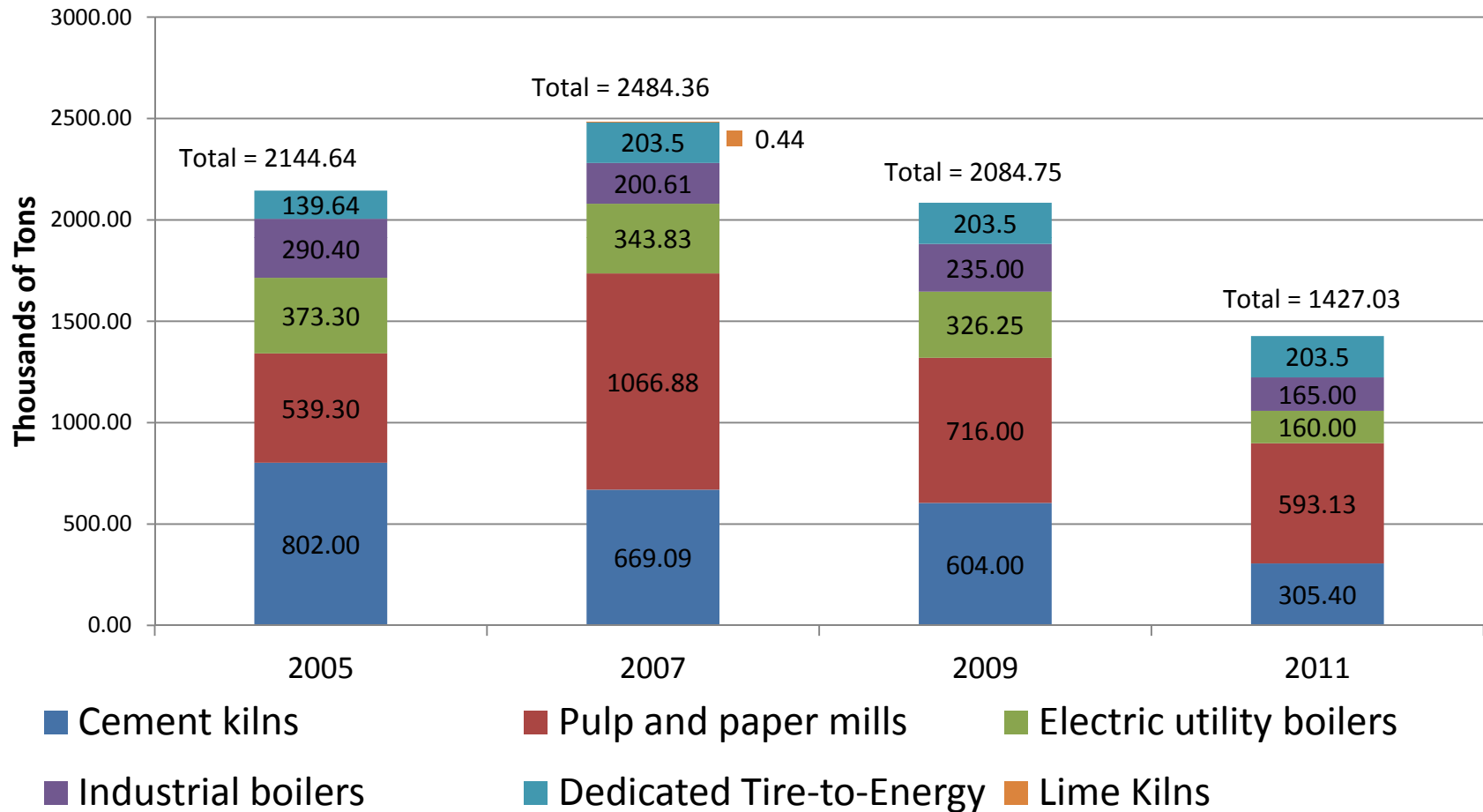
U.S. Tire-Derived Fuel Markets 2011



Did you know?

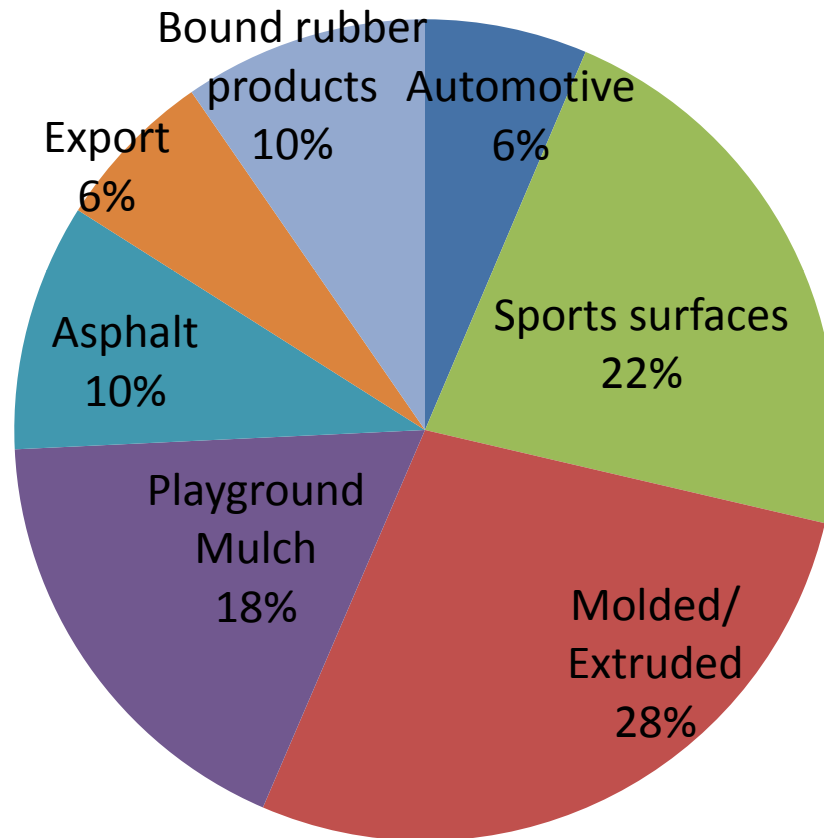
Total scrap tires diverted to TDF market:
1,427,025 tons or
about 87 million tires

U.S. Tire-Derived Fuel Market Trends 2005 - 2011



U.S. Ground Rubber Markets 2011¹

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



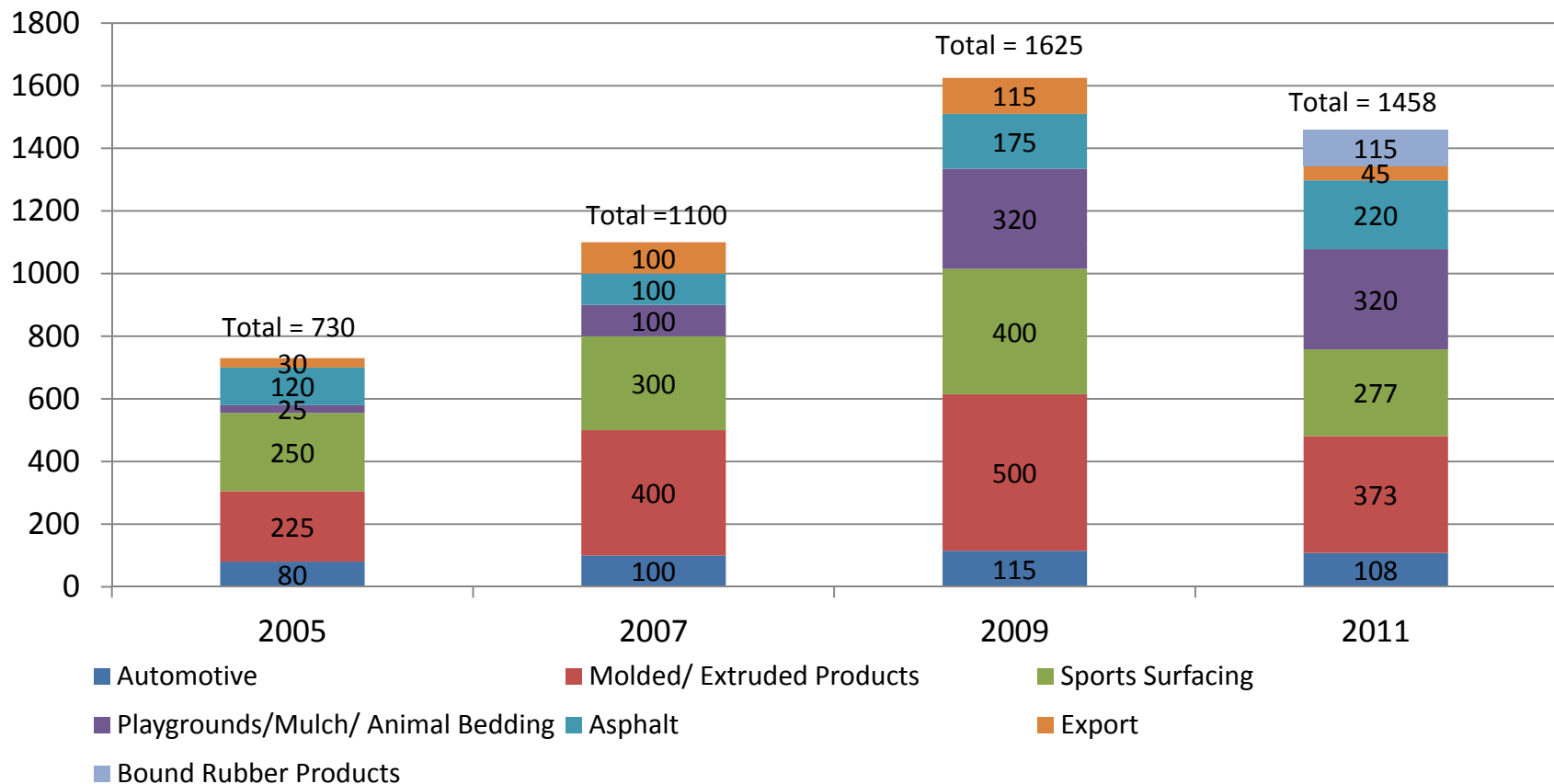
Did you know?

Total tire rubber consumed in ground rubber markets:
about 1,458,000,000 pounds

Total scrap tires diverted to these markets:
About 928,500 tons or almost 57 million tires

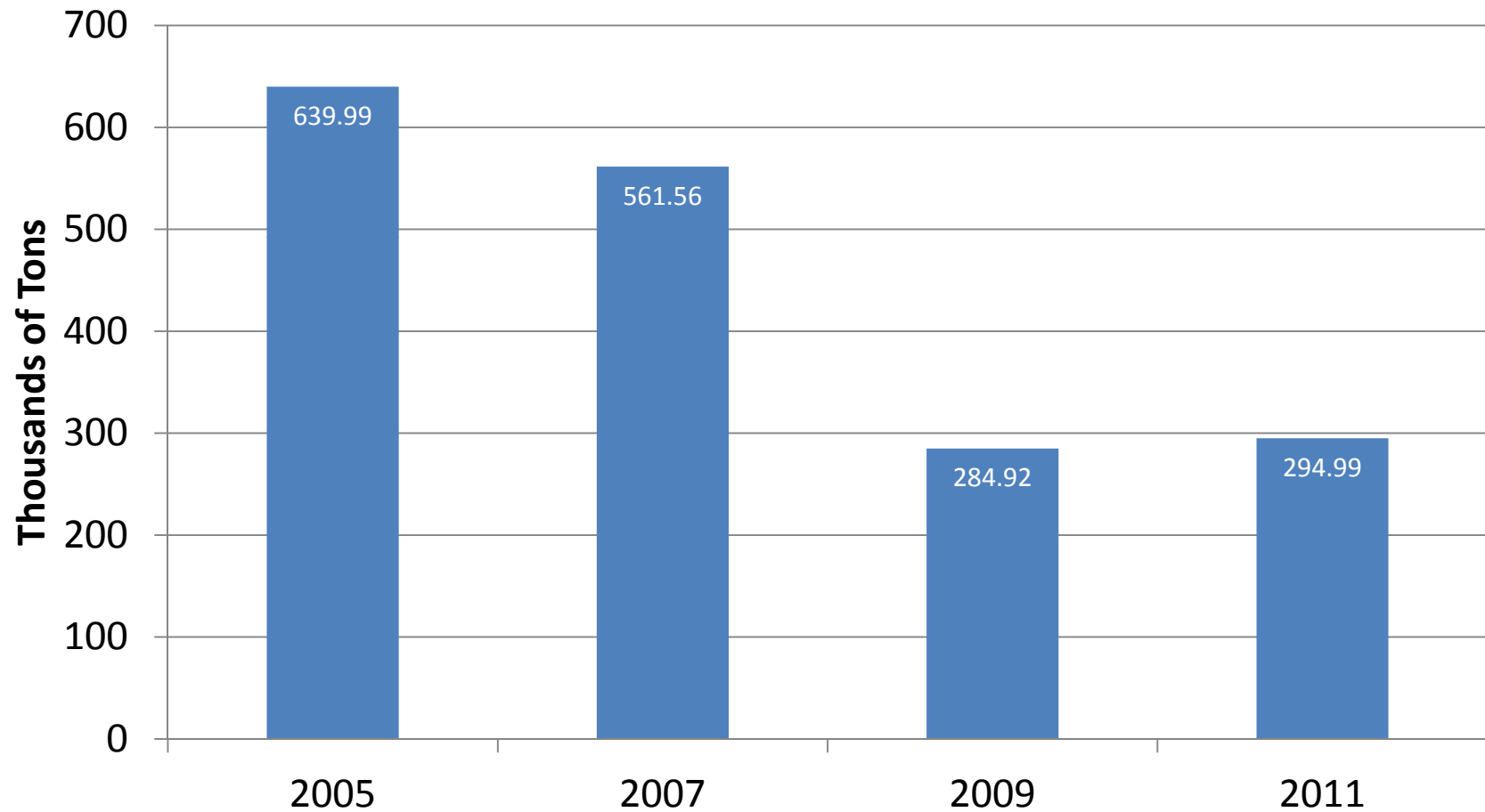
¹Ground rubber market distribution data are based on ground rubber consumed in end-use markets, not whole tires entering these market streams. The data represented in RMA U.S. scrap tire market summaries refer to the weight of whole tires diverted to all scrap tire markets, including ground rubber, whereas this chart refers to the weight of processed ground rubber, with wire, fluff and agglomerated rubber removed that is consumed in ground rubber end-use markets.

U.S. Ground Rubber Market Distribution 2005 - 2011¹

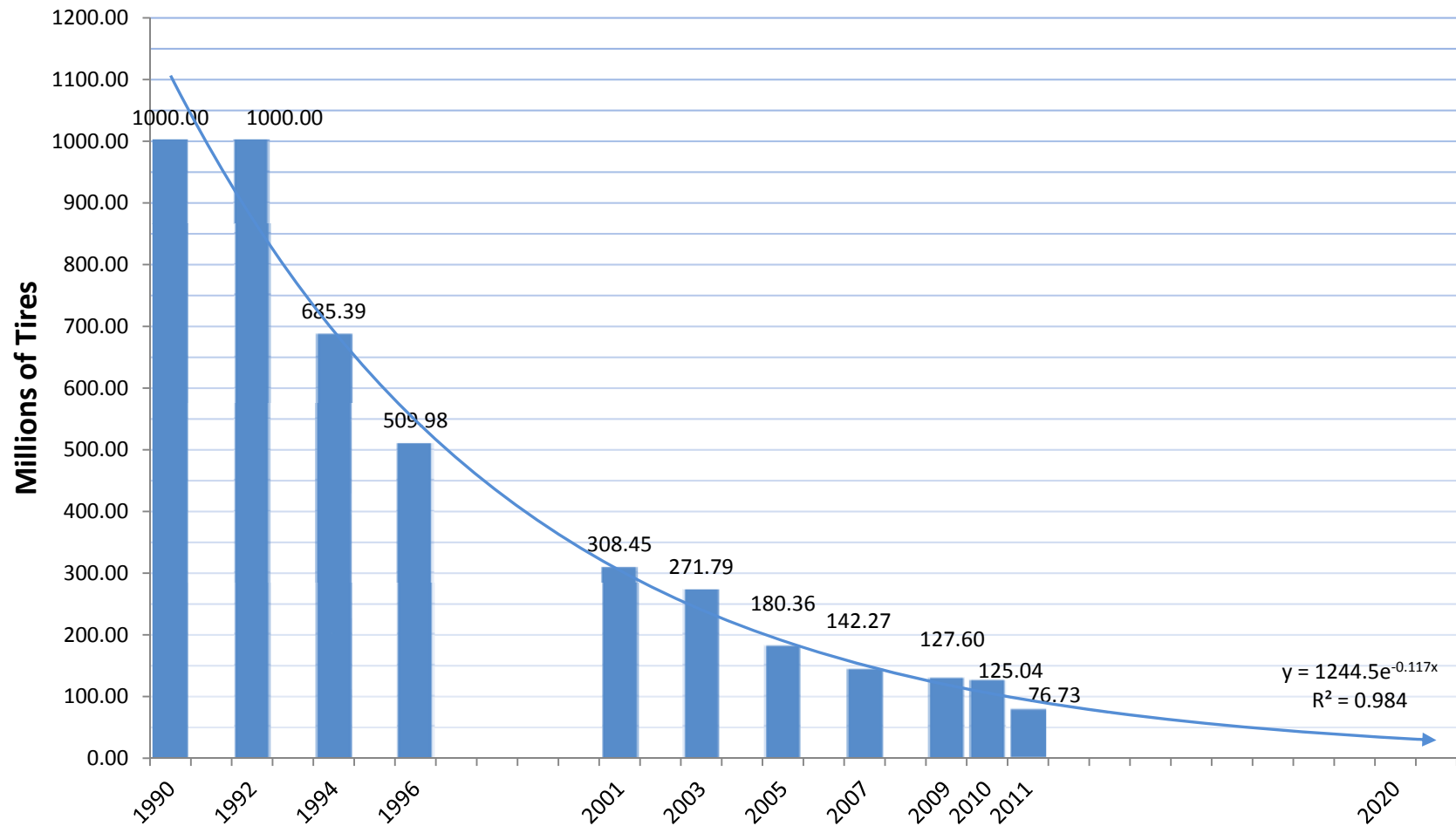


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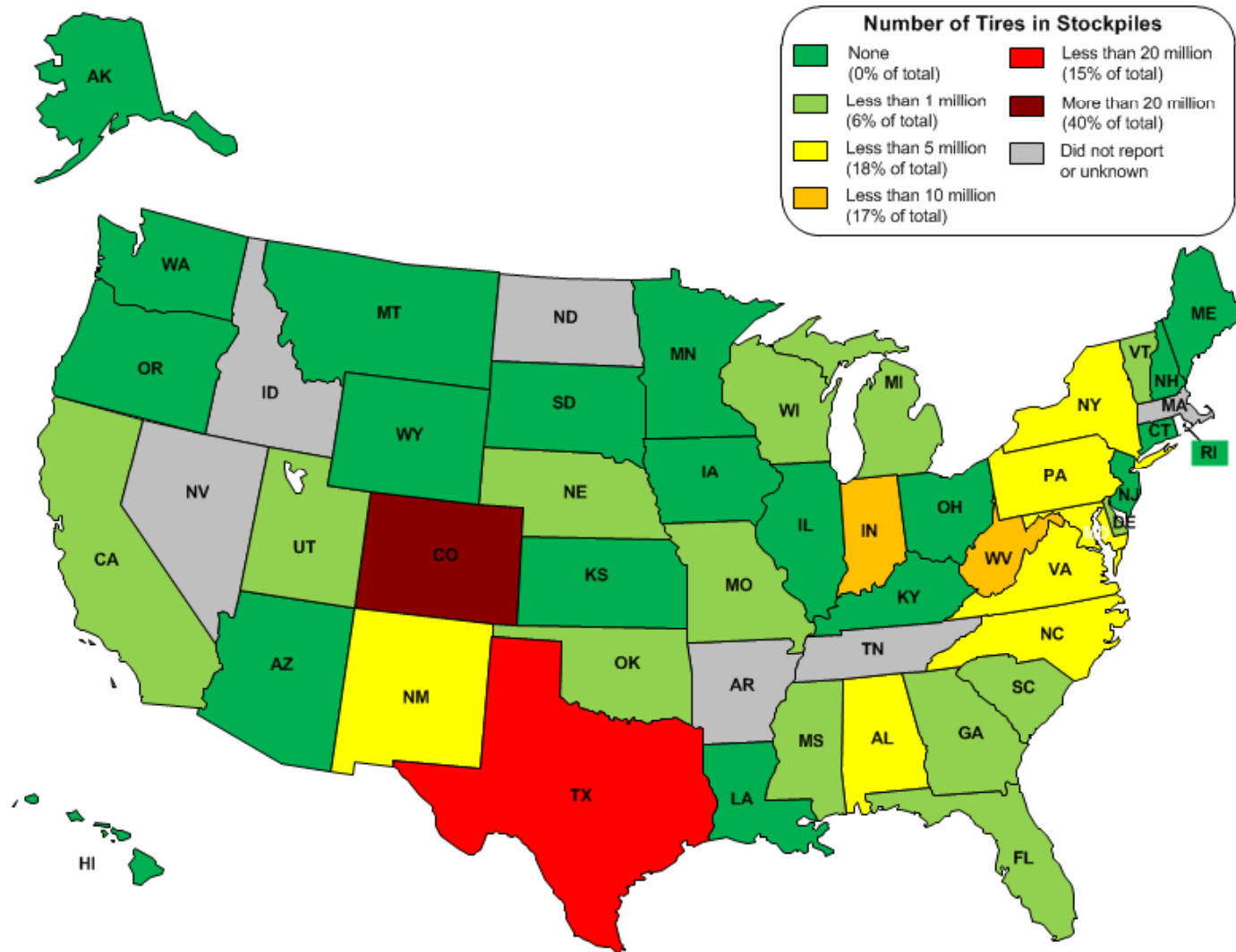
U.S. Civil Engineering Markets 2005 - 2011

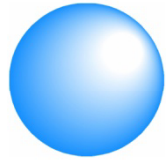


U.S. Stockpiled Scrap Tires 1990 - 2011



Geographic Distribution of Scrap Tires in U.S. Stockpiles in 2011





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About the Rubber Manufacturers Association

RMA is the national trade association representing tire manufacturers that make tires in the United States. RMA'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.

RMA began its scrap tire program in 1990 under the auspices of the Scrap Tire Management Council. RMA 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. RMA supports all scrap tire markets that are environmentally sound and economically feasible.

