



2023 End-of-Life Tire Management Report

About the U.S. Tire Manufacturers Association

The U.S. Tire Manufacturers Association (USTMA) is the national trade association for tire manufacturers that produce tires in the U.S. U.S. tire manufacturing has an annual economic footprint of \$170.6 billion and is responsible for more than 291,000 U.S. jobs in manufacturing, distribution and retailing. The industry supports more than 510,000 additional U.S. jobs in supplier and induced activities, totaling more than 801,000 jobs nationwide. USTMA advances a sustainable tire manufacturing industry through thought leadership and a commitment to science-based public policy advocacy. Our member company tires make mobility possible. USTMA began its end-of-life 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 end-of-life tire (ELT) stockpiles and implement state regulations that that foster sustainable ELT tire markets. USTMA supports sustainable and circular ELT markets.



USTMA Sustainability Vision

- USTMA members share a common vision on sustainability which includes: Promoting tire safety; advancing worker safety; reducing greenhouse gas emissions throughout a tire's useful life; improving environmental footprints over time; minimizing the health, and environmental impacts of tire materials; and ensuring end-of-life tires enter sustainable markets.
- Specifically, **USTMA members have the goal that all ELT's enter sustainable and circular end use markets.**
- USTMA's 2023 end-of-life tire market summary report measures our progress towards meeting our sustainability vision

U.S. ELT Generation 2023

Tire Class	Millions of Tires	Market %	Average Weight (lbs)	Weight (thousands of tons)
Light Duty Tires	267	87.7%	25.0	3,334
Passenger tire replacements	219	72.1%		
Light truck tire replacements	34	11.3%		
Tires from scrapped vehicles	13	4.3%		
Commercial Tires	37	12.3%	120.0	2,238
Medium, wide base, heavy truck replacement tires	21	6.8%		
Tires from scrapped trucks and buses	17	5.4%		
Total tires hauled	304	100.0%	36.7	5,572
Used tires culled	40	13.2%	36.7	735
Net scrap tires	264			4,836

U.S. ELT Disposition 2023

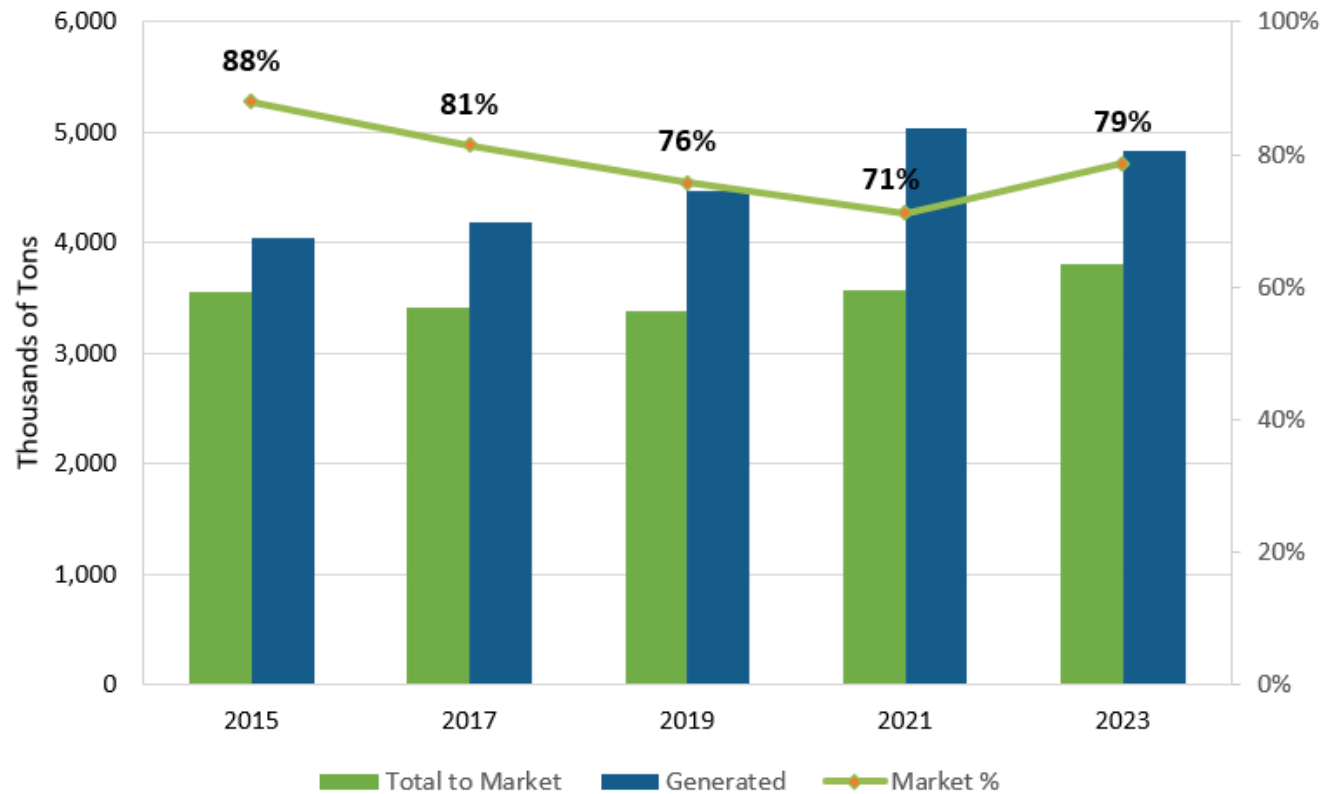
Market or Disposition	Thousands of Tons	Millions of Tires	% change 2021 - 2023
Tire-Derived Fuel	1,546	84	10.9%
Cement Kilns	784	43	15.0%
Paper & Pulp	562	31	7.2%
Electric Utilities	200	11	6.5%
Ground Rubber	1,339	73	-4.8%
Civil Engineering	264	14	-4.5%
Exported	253	14	189.4%
Electric Arc Furnace	70	4	14.2%
Reclamation Projects	40	2	-15.8%
Agricultural	0	0	
Baled Tires/ Market	0	0	
Punched/ Stamped	0	0	
Other	289	16	-5.4%
Total to Market	3,801	207	6.2%
Generated	4,836	264	-3.9%
% to Market/ Utilized	79%	79%	10.5%
Land Disposed	874	48	19.3%

U.S. ELT Market Summary 2015 - 2023

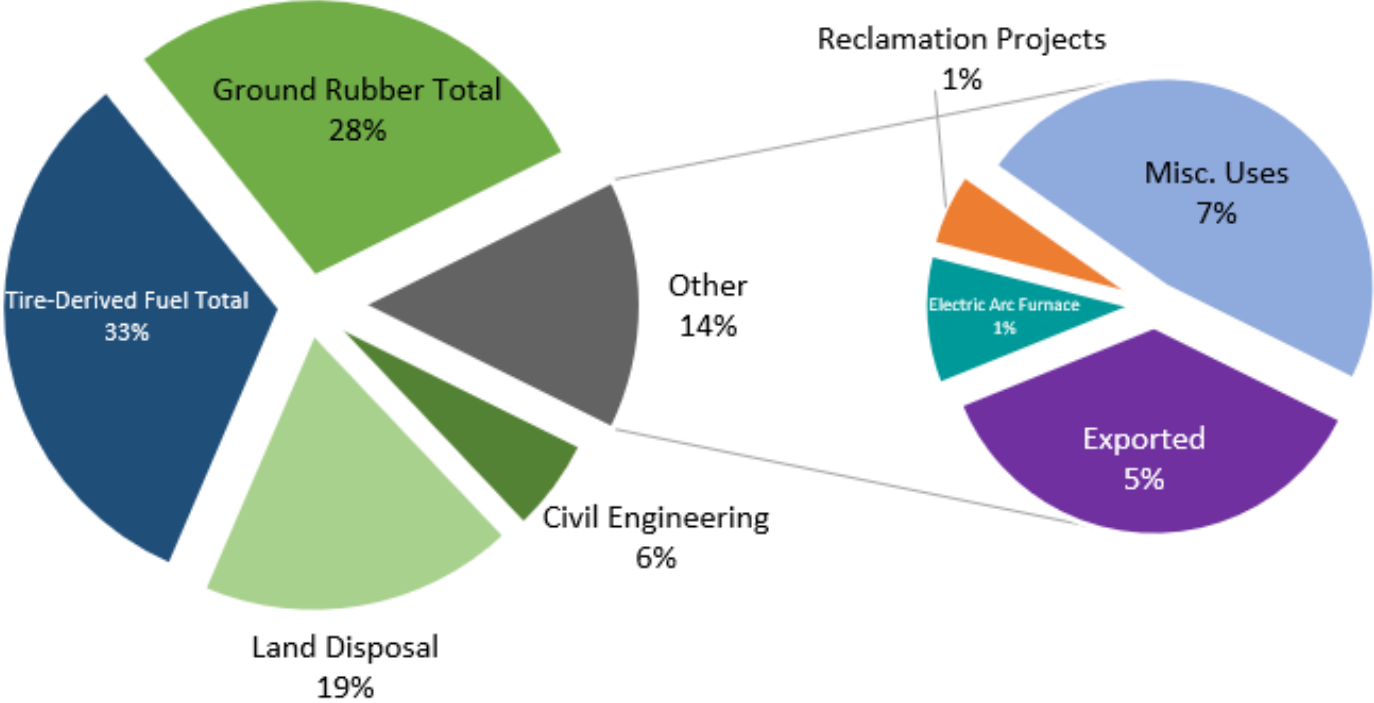
Market or Disposition (thousands of tons)	2015	2017	2019	2021	2023
Tire Derived Fuel	1,923	1,736	1,647	1,394	1,546
Ground Rubber	1,021	1,013	1,089	1,407	1,339
Land Disposed	451	647	680	733	874
Civil Engineering	275	316	226	276	264
Exported	102	110	138	87	253
Reclamation Projects	53	44	40	48	40
Electric Arc Furnace	26	39	61	61	70
Baled Tires/ Market	9	15	10	0	0
Punched/ Stamped	41	23	10	0	0
Agricultural	7	7	20	0	0
Other	95	108	138	306	289
Total to Market	3,551	3,411	3,379	3,579	3,801
Generated	4,039	4,189	4,464	5,031	4,836
% to Market/ Utilized	88%	81%	76%	71%	79%
% Managed (incl. baled and landfilled tires)	99%	97%	91%	86%	97%



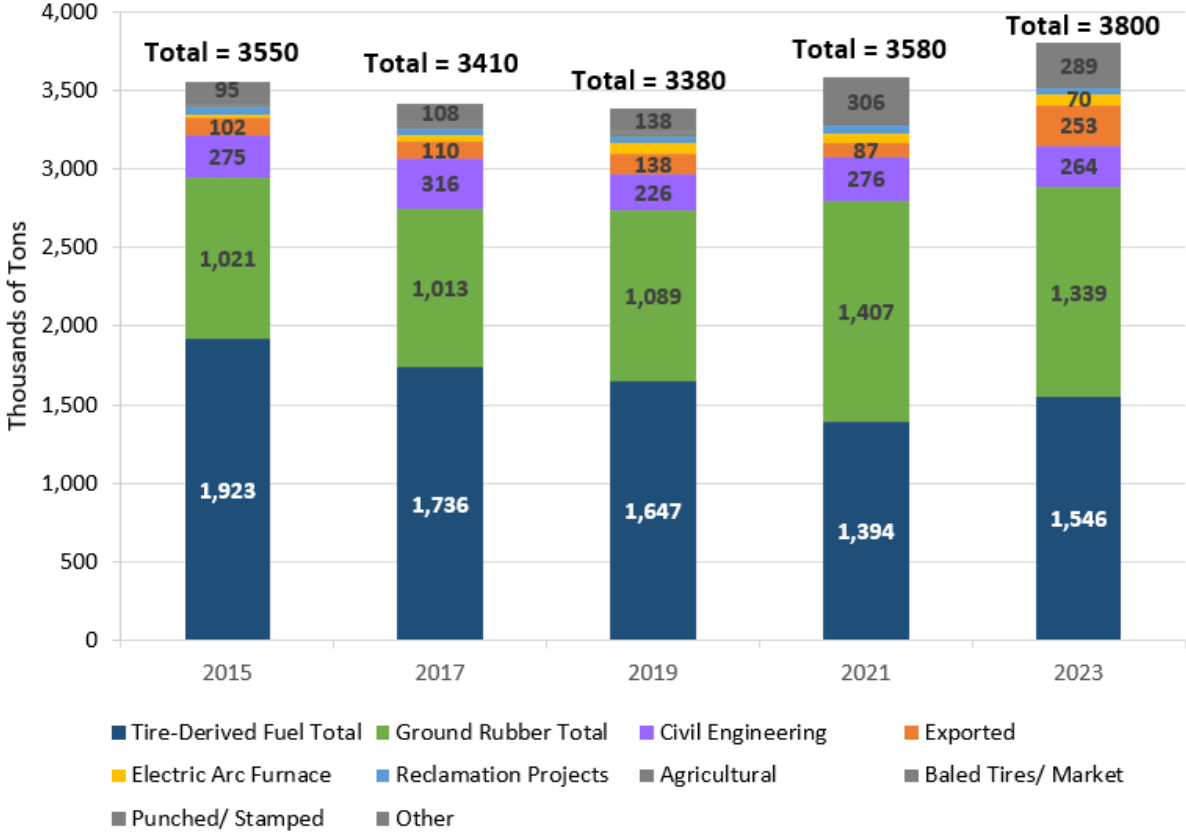
U.S. End-Of-Life Tire Market Trends 2015 - 2023



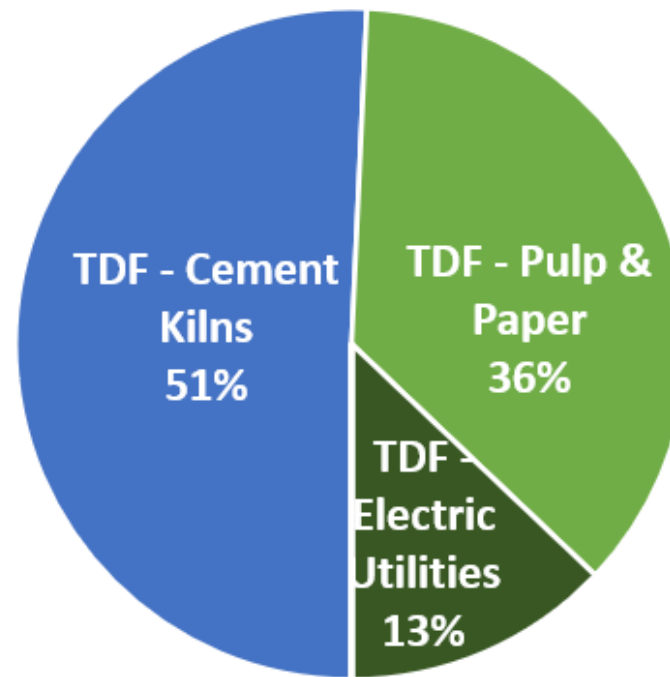
U.S. ELT Disposition 2023



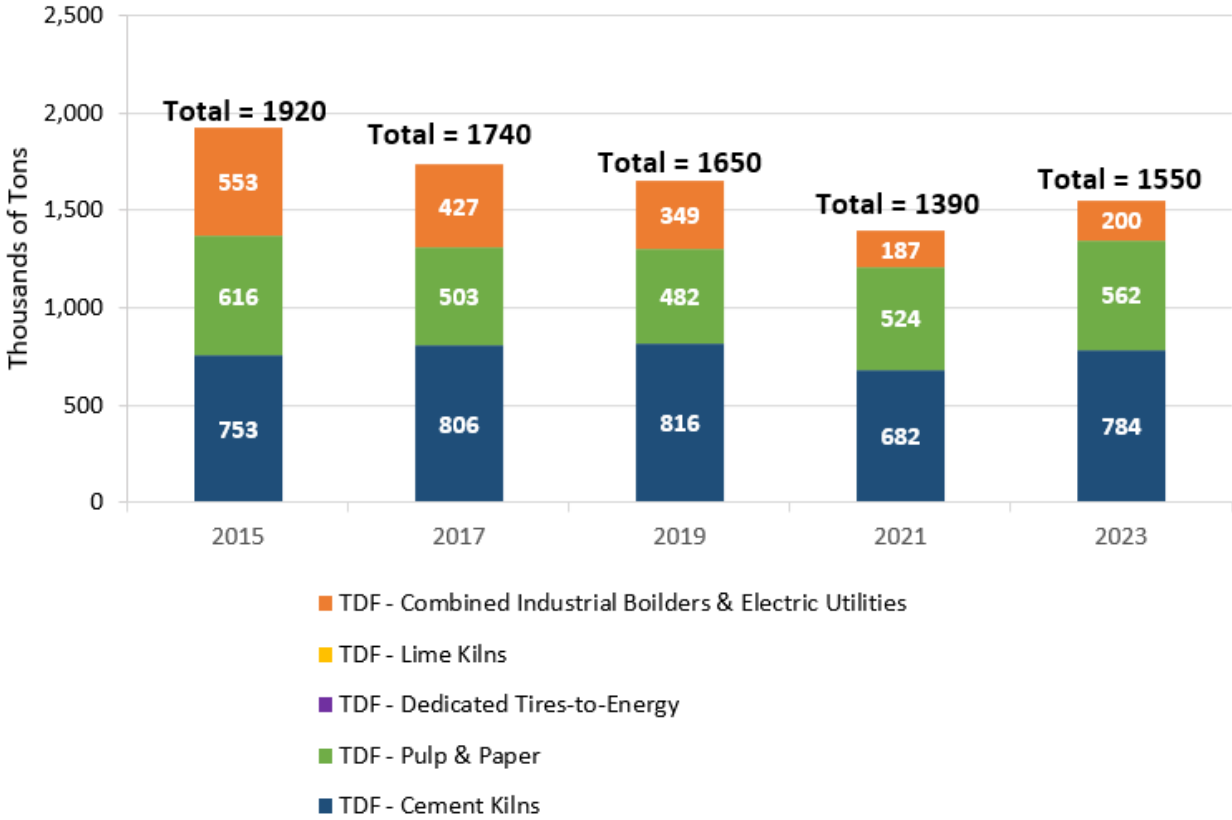
U.S. ELT Market Trends 2015 - 2023



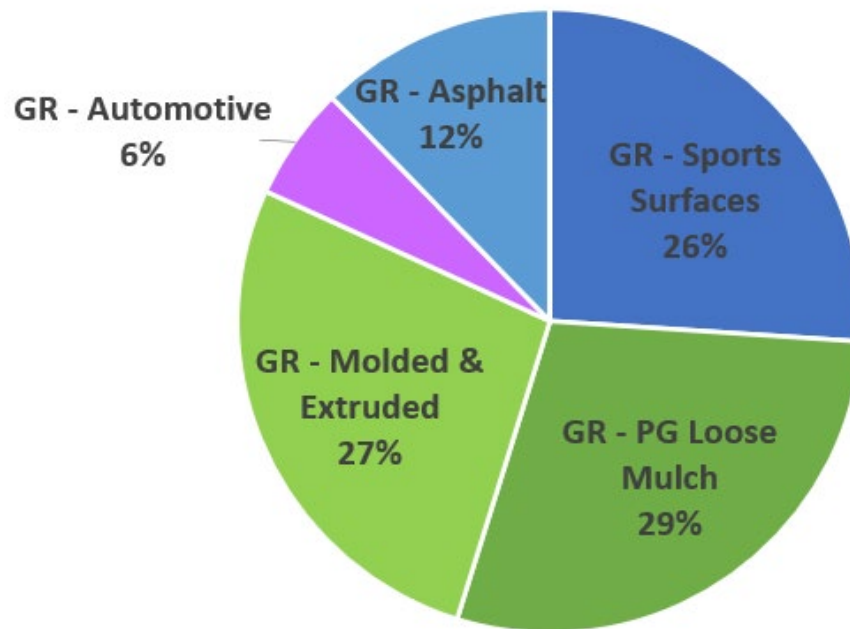
U.S. Tire Derived Fuel Markets 2023



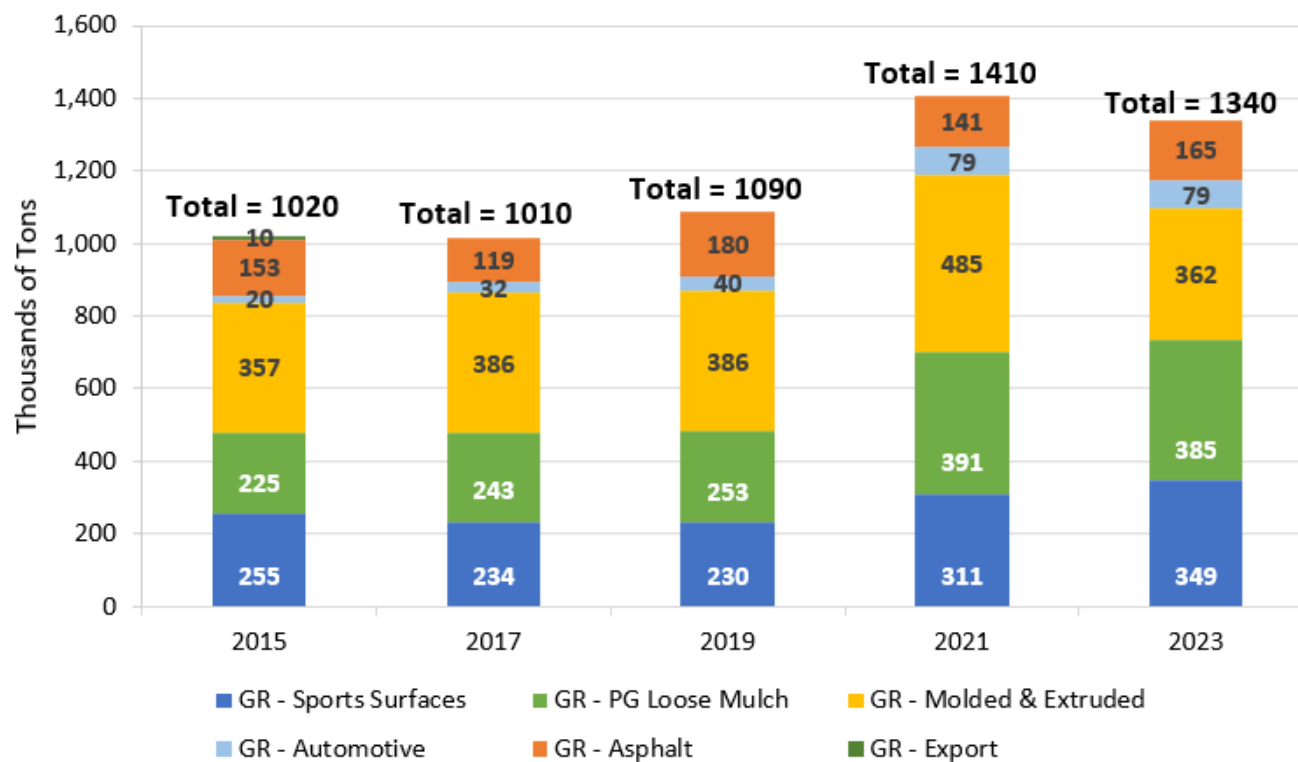
U.S. Tire Derived Fuel Market Trends 2015 - 2023



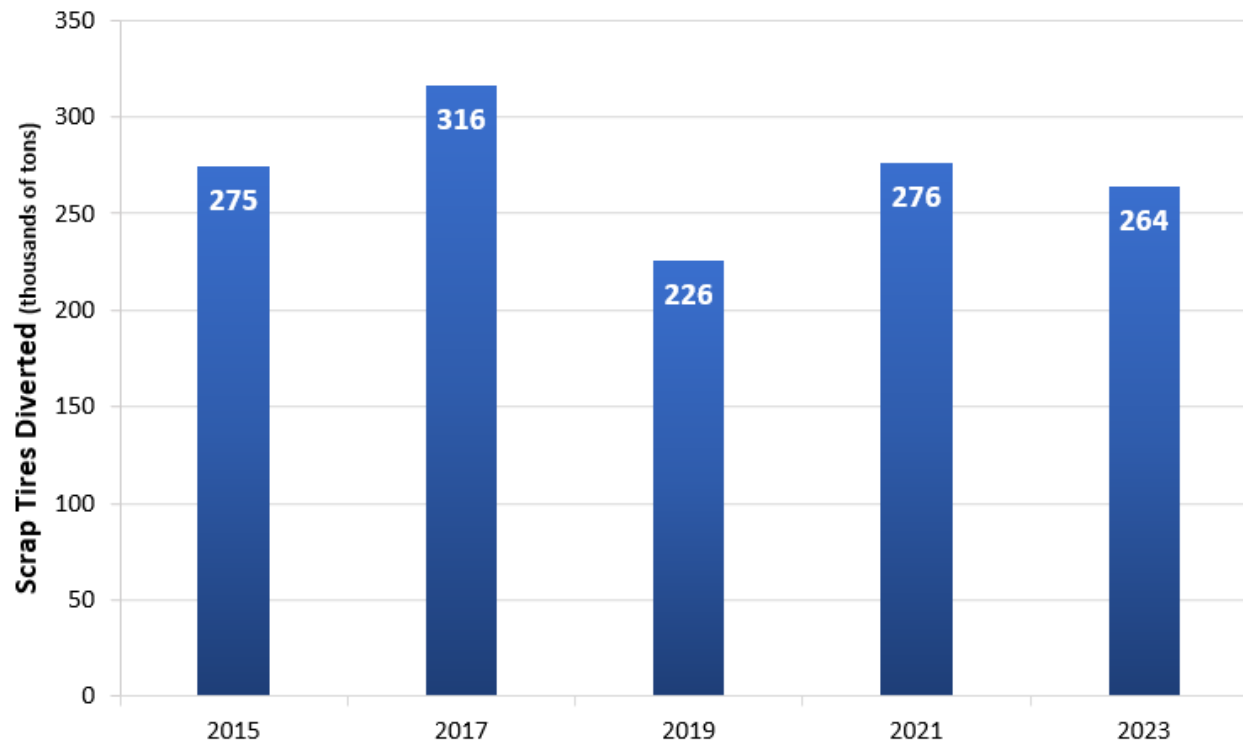
U.S. Ground Rubber Markets 2023



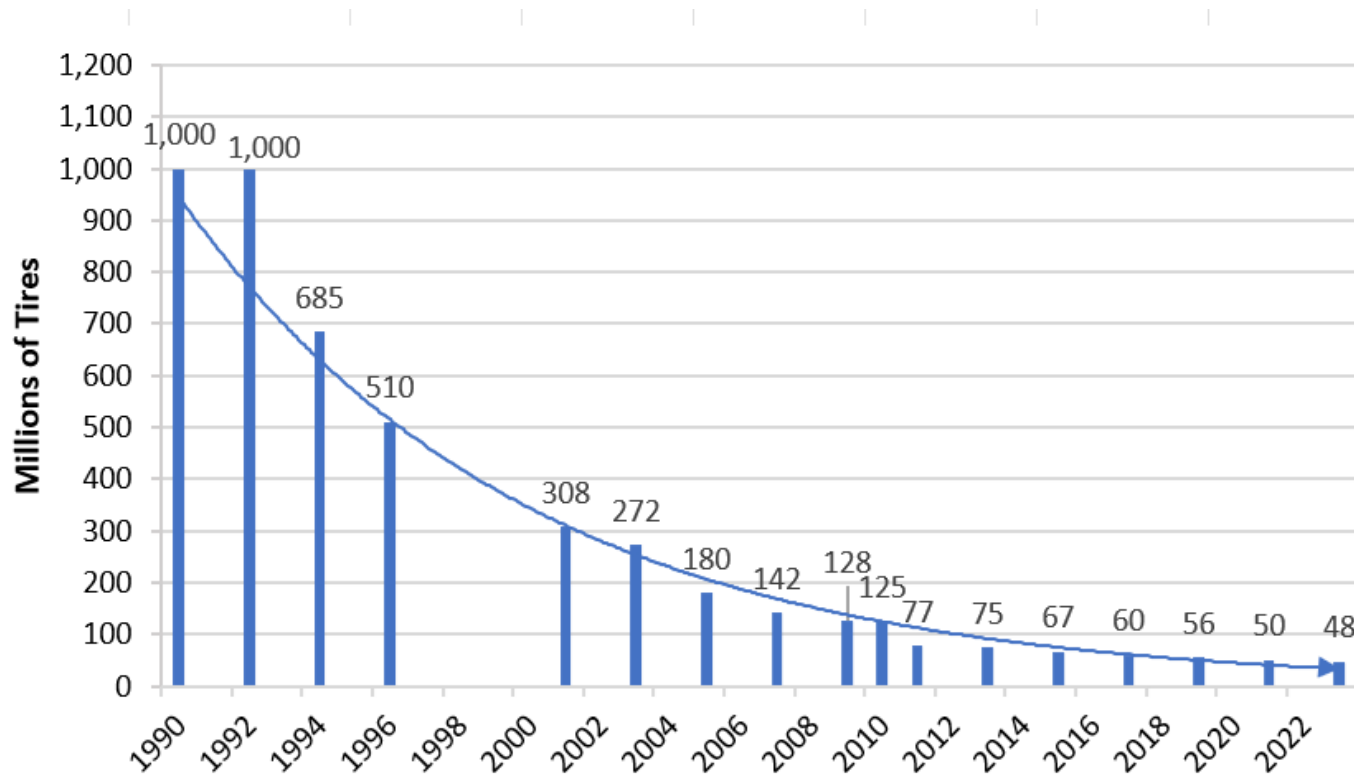
U.S. Ground Rubber Market Distribution 2015 - 2023



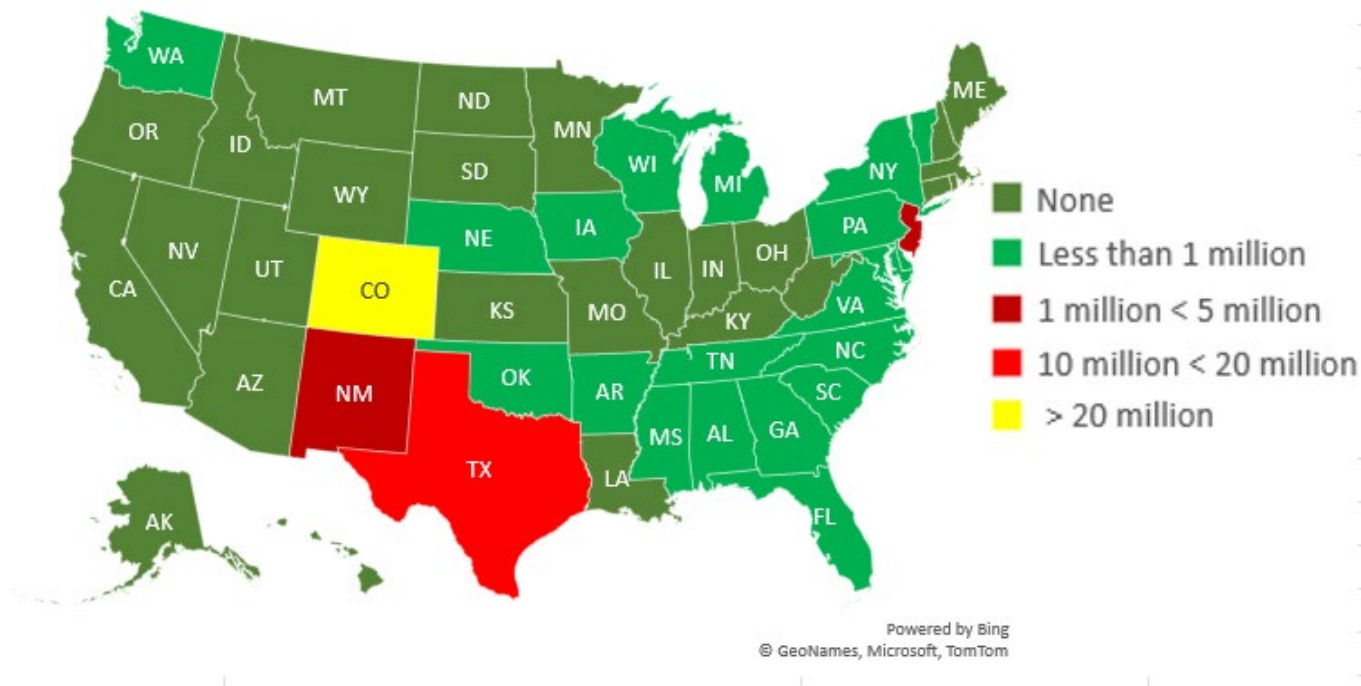
U.S. Civil Engineering Markets 2015 - 2023



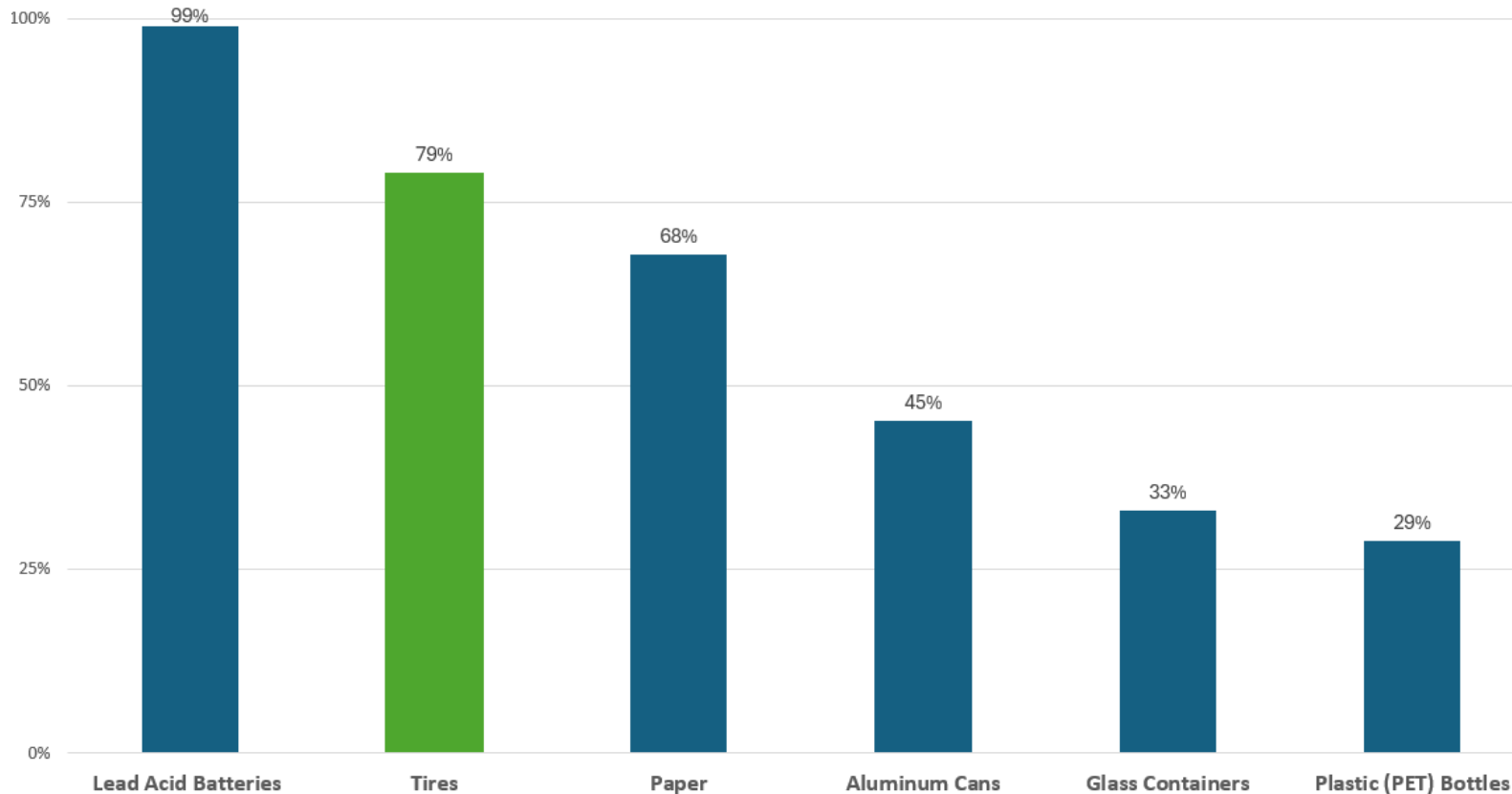
U.S. Stockpiled ELT's 1990 - 2023



Stockpiled Tires Remaining in the U.S.



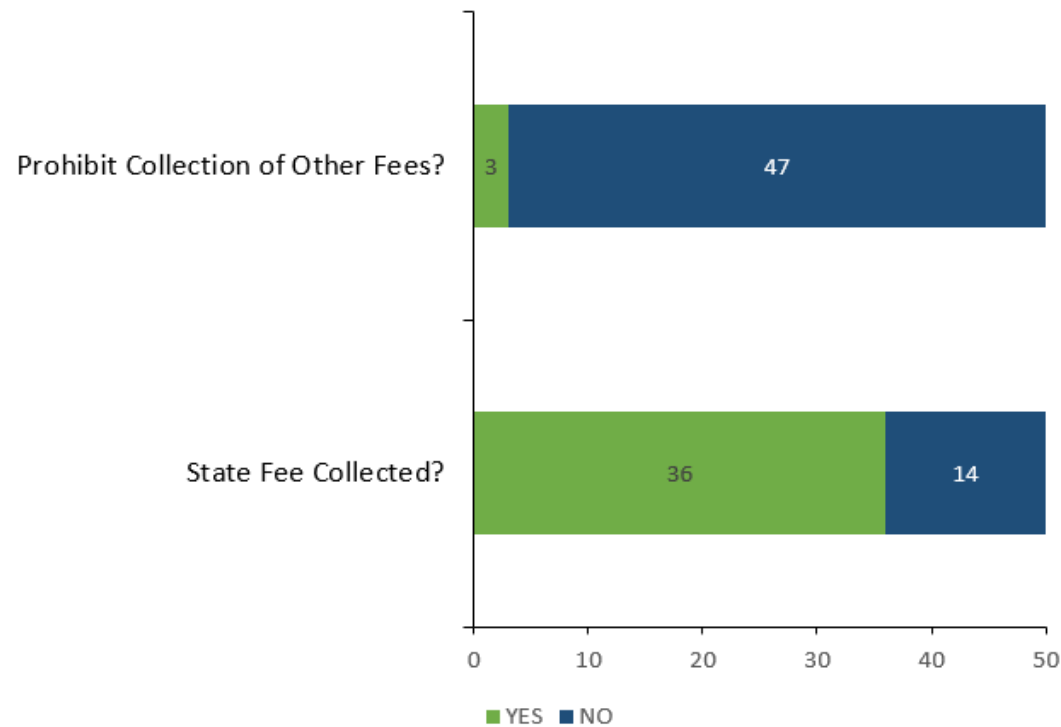
2023 End Use Rates for Common Materials



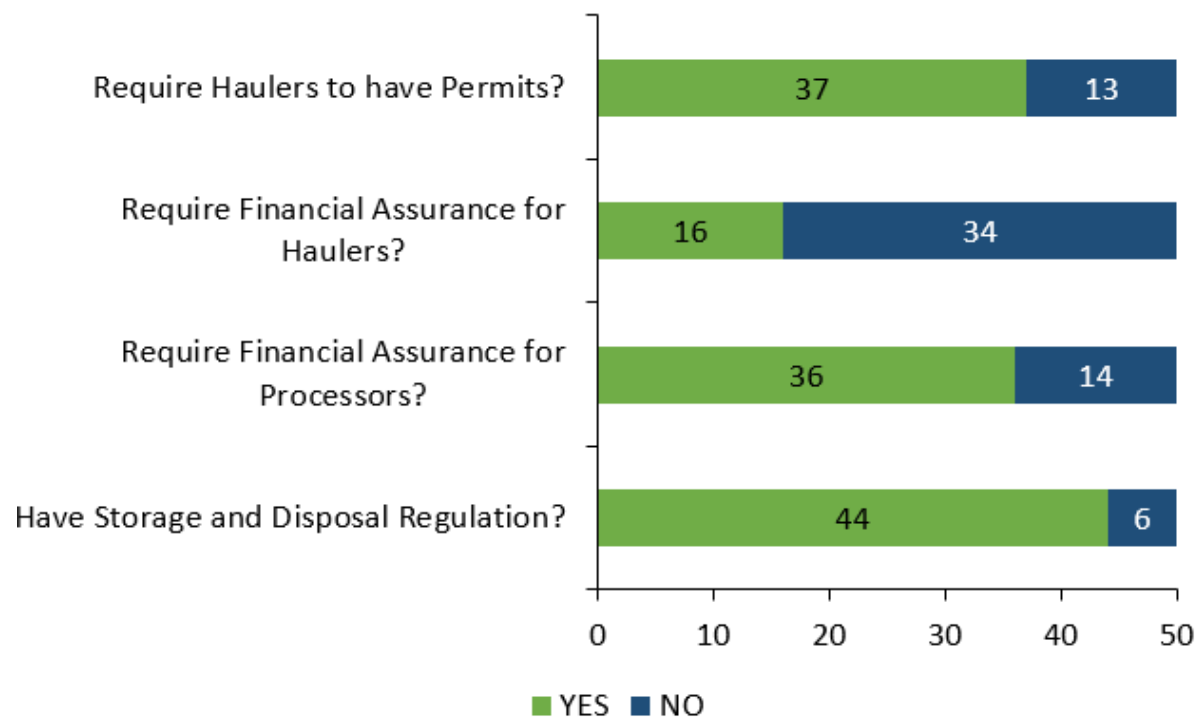
- Lead Acid Batteries ([Battery Council International](#) 2021)
- Tires ([USTMA](#) 2023)
- Paper ([AF&PA](#) 2022)
- Aluminum Cans ([Aluminum Association](#) 2021)
- Glass Containers ([Glass Recycling Foundation](#) 2023)
- Plastic (PET) Bottles ([NAPCOR](#) 2022)



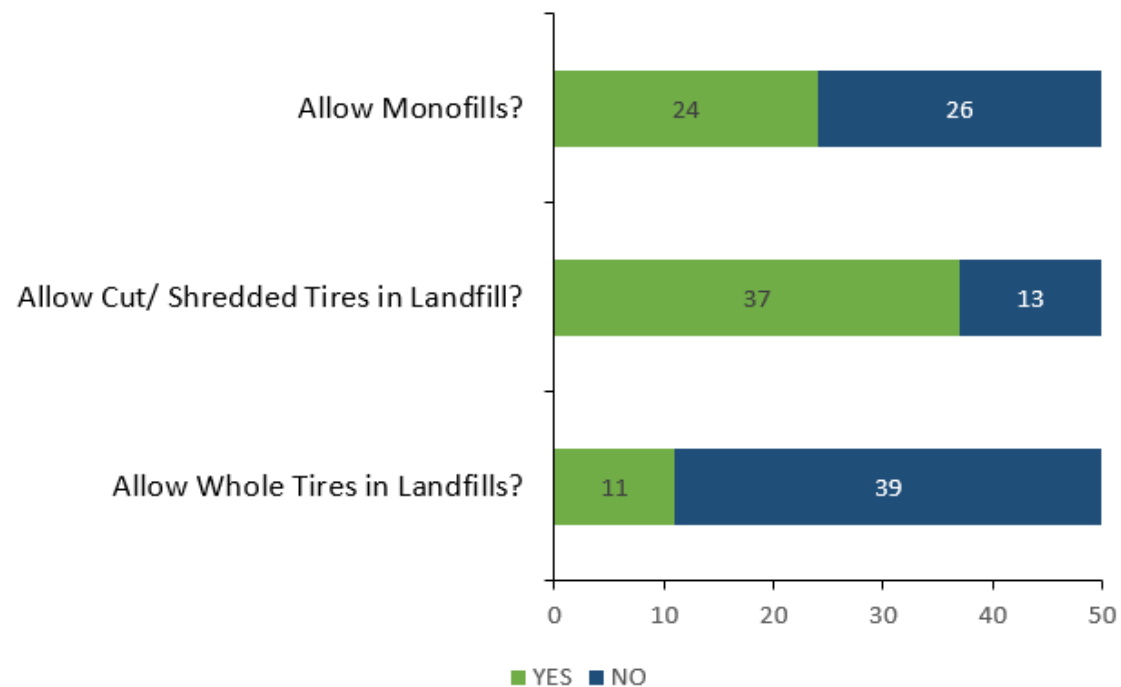
Overview of Current State Programs



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