



# TIRE RECYCLING 2021-22 PROGRESS REPORT



## TIRE SUPPLIERS' RECYCLING ROLE

When Albertans get new tires, they usually leave their old ones behind. They can because vehicle and tire dealers, and auto repair shops play a dual role—selling new tires and making sure the old scrap tires you leave behind are collected for recycling at Alberta facilities.

## TIRE RECYCLING RESULTS

Tire volumes collected in 2021/22 increased over the year as sales of tires recovered from the lower levels seen during the first year of the COVID-19 pandemic. Processing volumes declined slightly, and year-end processor inventory increased over the prior year. This chart displays results of tire recycling over the last three years.

*\*Passenger and Light Truck Tires (PLTT), Medium Truck Tires (MTT), Specialty, Industrial and Other Tires (SIO).*

*†The Recovery Rate for 2021/22 has been shifted to evaluate Collected tire volumes as a percentage of tire sales to more accurately reflect the activity of collecting and transporting tires into the recycling system. This replaces the methodology of evaluating Processed tire volumes as a percentage of tire sales; which was highly impacted in the tire program by large changes in processor inventories from year to year. The Recovery Rates for 2019/20, 2020/21 and the 2021/22 Target have been adjusted from previously reported figures to utilize the new methodology.*

TIRES PROCESSED	— TONNES —		KG. PER CAPITA	RECOVERY RATE FOR PLTT, MTT, AND SIO TIRES *†	RECOVERY RATE FOR OFF-THE-ROAD-TIRES †
	COLLECTED	PROCESSED			
2019/20 Result	70,956	62,328	14.16	94%	88%
2020/21 Result	67,804	66,461	14.98	95%	80%
2021/22 Target	70,804	66,429	15.06	96%	64%
2021/22 Result	73,572	66,308	14.80	96%	65%



## \$15 MILLION IN GRANTS SINCE 2000

Albertans have had great mileage from their tire recycling program with \$15 million in grants since 2000. Across the province you will find recycled tire products in **628 community grant projects** such as playgrounds, arenas, outdoor fitness areas, and walking trails.

**157 grants** have been awarded to Indigenous communities and municipalities for upgrading tire collection areas at landfills and transfer stations.

## PROGRAM SUPPORT

Albertans' support of the tire recycling program remains strong, as measured in this year's survey. This response helps drive the program's success as a means to effectively divert scrap tires from landfills.

YEAR	PROGRAM SUPPORT
2017/18 Result	83%
2018/19 Result	83%
2021/22 Result	80%

## ENVIRONMENTAL COMPLIANCE

A program goal is to ensure all scrap tires are collected and processed by registered recyclers in an environmentally and socially responsible manner. Monthly inspections by ARMA and an environmental audit by external experts every three years confirm recyclers are meeting program requirements.



# PROGRAM SUSTAINABILITY

Results for the 2020/21 sustainability review of registered tire processors was a key component in the consultation process taking place in the fall of 2021 with industry stakeholders to consider increasing the environmental fee on MTT for the sustainability of the program. This proposal received strong support from stakeholders, including the province, resulting in the fee increase to \$14.00 from \$9.00, effective April 1, 2022. The results of the sustainability review also informed incentive changes for the registered processors.

## FEE MANAGEMENT

### RECYCLING EXPENDITURES



Collection and recycling of tires

### RECYCLING DEVELOPMENT



R&D; Program awareness

### PROGRAM DELIVERY EXPENDITURES







Costs to deliver the program

### CORPORATE ADMINISTRATION



Corporate costs



	<b>CAR AND LIGHT TRUCK TIRES</b> INCL. SPARES, SPORT & CROSS-OVER UTILITY, MEDIUM TRUCK <19.5" RIM	\$4.00/tire
	<b>SPECIALTY, INDUSTRIAL AND OTHER TIRES</b> INCL. TRAILER, ATV, DIRT BIKE, FORKLIFT, SMALL LOADERS, AND SKID-STEERS	\$4.00/tire
	<b>MEDIUM TRUCK TIRES</b> INCL. LARGE COMMERCIAL FREIGHT TRUCKS, AND PASSENGER BUSES	\$14.00/tire as of April 1, 2022
	<b>OFF-THE-ROAD TIRES</b> INCL. CONSTRUCTION, ROAD BUILDING, FORESTRY MINING, ETC.	\$40.00, \$100.00, or \$200.00/tire depending on rim size

This chart breaks out the amount of tires processed by type for the past three years. Tires vary in size and weight, therefore a standardized unit is applied to present the results, using a passenger-tire-equivalent (PTE) of one PTE equaling 10 kgs. There is 100 PTEs in one tonne of tires.

YEAR	PASSENGER, LIGHT TRUCK, SPECIALTY, INDUSTRIAL & OTHER TIRES (PTE)	MEDIUM TRUCK TIRES (PTE)	OFF-THE-ROAD TIRES (PTE)
2019/20	3,922,100	1,929,100	381,600
2020/21	4,099,700	2,096,000	450,400
2021/22	4,302,000	1,934,400	394,300

# WHAT HAPPENS TO YOUR SCRAP TIRES?

Two registered recyclers coordinate the collection of scrap tires from 3,130 vehicle and tire dealers, auto repair shops, and 357 tire recycling depots. Since 2002, 4-H clubs have partnered with ARMA to clean up rural areas, collecting 1.25 million tires for which they have received funding per tire.



## STAGE 1

Tires are shredded into spec pieces for use as tire-derived aggregate (TDA). The steel and fibre are still embedded.

**APPLICATION:** TDA is a cost-effective alternative to conventional aggregate (a limited and non-renewable resource) for use in leachate drainage blankets.



## STAGE 2

The shredded tires are ground to make mulch, with the steel removed.

**APPLICATION:** For use in landscaping.



## STAGE 3

The shredded tires are processed into crumb, with the steel and fibre removed.

**APPLICATION:** For use in playground surfaces, various molded products, synthetic turf, and athletic tracks.



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*ARMA oversees end-of-life processing of tires, electronics, paint and used oil materials on behalf of the province. Since 1992, ARMA has worked with a broad spectrum of stakeholders to shape recycling policy, create a value-added processing system, minimize waste entering landfills and to act as collective stewards of Alberta's environment.*