

Calculate by Cubic Yards

Use the following formula based on the length, width, height in feet (obtained by measuring or estimating tire pile size) and convert to cubic yards of tires:

$$[\text{Length (feet)} \times \text{Width (feet)} \times \text{Height (feet)}] \div 27 = \text{Volume (in cubic yards)}$$

Once you have determined the cubic yards of a tire pile, multiply cubic yards by the tires per cubic yard (tires/cy) as listed in the conversion tables below for whole or altered tires.

Whole Passenger/Light Truck Tires

Storage Type	Height of Tire Pile		
	(<10 feet)	(10-15 feet)	(>15 feet)
(stored less than 15 years)			
Loose	10 tires/cy	12 tires/cy	14 tires/cy
Barrel	12 tires/cy	14 tires/cy	16 tires/cy
Laced	14 tires/cy	16 tires/cy	18 tires/cy
(stored 15 years or more)			
Loose	12 tires/cy	14 tires/cy	16 tires/cy
Barrel	14 tires/cy	16 tires/cy	18 tires/cy
Laced	16 tires/cy	18 tires/cy	20 tires/cy

Whole Semi-Truck Tires

Storage Type	Height of Tire Pile		
	(<10 feet)	(10-15 feet)	(>15 feet)
(stored less than 15 years)			
Loose	2.5 tires/cy	2.75 tires/cy	3.0 tires/cy
Barrel	4.2 tires/cy	4.4 tires/cy	4.6 tires/cy
Laced	4.1 tires/cy	4.3 tires/cy	4.5 tires/cy
(stored 15 years or more)			
Loose	3.0 tires/cy	3.5 tires/cy	4.0 tires/cy
Barrel	4.4 tires/cy	4.6 tires/cy	4.8 tires/cy
Laced	4.3 tires/cy	4.5 tires/cy	4.7 tires/cy

Altered Tires

Type	Height of Tire Pile	
Sidewalls or treads	20 tires/cy	The photo below shows cut out sidewalls and treads.
Primary shreds	20 tires/cy	Tires that have been run through a shredder one time.
Shreds 2 inches or smaller	40 tires/cy	Tires that have been run through a shredder more than once to create pieces two inches or smaller.
Crumb rubber (less than ¼ inch in size)	NA	Not regulated by CalRecycle.

Calculate by Weight

If you know the weight of altered tires, you can convert directly to a number of passenger tire equivalents (PTE).

The California Code of Regulations, 14 CCR Section 17225.770 defines a "passenger tire equivalent" (PTE) as the total weight of altered waste tires, in pounds, divided by 20 pounds. 1 PTE = 1 Waste Tire.

If weight is known: Total Known Weight (pounds) ÷ 20 pounds = PTE

Note: This information is also found on the back of the Comments Form (CIWMB 183).

