

# Truck Weight Limits

The "legal" operating weight of a truck is determined by tire size, the number of axles, and the wheelbase of the truck or the combination of truck and trailer(s). Legal weights are determined on the basis of the following:

[Chart 1 - Gross allowable weight for single axles and tandem axles.](#)

[Chart 2 - Gross allowable weight for any vehicle, group of axles, and combination of vehicles.](#)

In Oregon, the maximum legal gross weight limit is 80,000 pounds. The gross weight of a single axle cannot exceed 600 pounds per inch of total tire width on the axle (limited also by manufacturer's sidewall tire rating), or 20,000 pounds, whichever is less. The gross weight of a tandem axle cannot exceed 600 pounds per inch of total tire width of the wheels on tandem axle, or 34,000 pounds, whichever is less.

Combinations with a total gross weight over 80,000 pounds and up to 105,500 pounds must obtain a special permit, called an Extended Weight permit. These permits are often needed, for example, by truckers operating double- and triple-trailer combinations that have legal axle, tandem and group weights, the total of which weigh between 80,001 and 105,500 pounds.

For more information about Extended Weight and other variance permits, contact the Motor Carrier Transportation Division at 503-373-0000. Visit the Motor Carrier Division Web site for more information – [www.oregon.gov/ODOT/MCT/OD.shtml](http://www.oregon.gov/ODOT/MCT/OD.shtml)

## Definition of terms related to truck weight

**Axle Weight** - The weight placed on the road by all wheels of one axle.

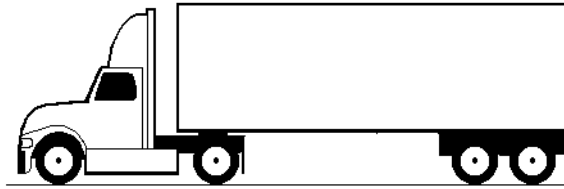
**Tandem Axle Weight** - The weight placed on the road by two or more axles spaced more than 40 inches, but no more than 96 inches, apart.

**Group of Axles Weight** - The weight placed on the road by two or more axles spaced more than 8 feet apart.

**Gross Weight** - The total weight of a vehicle or combination of vehicles and load.




**Tire Width** - The width indicated on the side of the tire by the manufacturer.

**Wheelbase** - The distance in feet between two or more axles, as measured from the center of each axle.



**Chart 1**

**Maximum Gross Weight for Single and Tandem Axles**

			
Tire Size	Total Weight 2 tires - 1 axle	Total Weight 4 tires - 1 axle	Total Weight 8 tires - tandem axle
10 inches	12,000 lbs.	20,000 lbs.	34,000 lbs.
11 inches	13,200 lbs.	20,000 lbs.	34,000 lbs.
12 inches	14,400 lbs.	20,000 lbs.	34,000 lbs.

Maximum gross weight is based on the manufacturer's sidewall tire rating, but not to exceed 600 pounds x the sum of the tire widths, in inches, up to the maximum axle, tandem axle, and gross weight tables.

## Maximum Allowable Weight for Any Vehicle, Group of Axles, and Combination of Vehicles

Determined by whichever of the following two methods produces lower weight:

1. The sum of the weights that are legally allowed on single axles, tandem axles, or groups of axles, OR
2. Weight limits outlined in the following tables from [ORS 818.010](#), with only two exceptions:

Exception A: Two consecutive sets of tandem axles spaced 30 feet or more apart may have a gross weight of 34,000 pounds each and operate without a permit on all non-interstate highways. A permit is required for operations on interstate highways, unless the spacing is 36 feet or greater.

Exception B: Four axles consisting of a set of tandem axles and two axles spaced nine feet or more apart may have a gross weight of 70,000 pounds if the distance between the first and fourth axle is 35 feet or more. A permit is required for operations on interstate highways.

Chart 2

### Maximum Weight Limits in Pounds

Distance in feet between first and last axle in group of axles:	2 axles	3 axles
4	34,000	
5	34,000	
6	34,000	
7	34,000	
8 and less	34,000	34,000

## Maximum Weight Limits in Pounds (continued)

Distance in feet between first and last axle in group of axles:	2 axles	3 axles	4 axles	5 axles	6 axles	7 or more axles
more than 8	38,000	42,000				
9	39,000	42,500				
10	40,000	43,500				
11	40,000	44,000				
12	40,000	45,000	50,000			
13	40,000	45,500	50,500			
14	40,000	46,500	51,500			
15	40,000	47,000	52,000			
16	40,000	48,000	52,500	58,000		
17	40,000	48,500	53,500	58,500		
18	40,000	49,500	54,000	59,000		
19	40,000	50,000	54,500	60,000		
20	40,000	51,000	55,500	60,500	66,000	
21	40,000	51,500	56,000	61,000	66,500	
22	40,000	52,500	56,500	61,500	67,000	
23	40,000	53,000	57,500	62,500	68,000	
24	40,000	54,000	58,000	63,000	68,500	74,000
25	40,000	54,500	58,500	63,500	69,000	74,500
26	40,000	55,500	59,500	64,000	69,500	75,000
27	40,000	56,000	60,000	65,000	70,000	75,500
28	40,000	57,000	60,500	65,500	71,000	76,500
29	40,000	57,500	61,500	66,000	71,500	77,000
30	40,000	58,500	62,000	66,500	72,000	77,500
31	40,000	59,000	62,500	67,500	72,500	78,000
32	40,000	60,000	63,500	68,000	73,000	78,500
33	40,000	60,000	64,000	68,500	74,000	79,000
34	40,000	60,000	64,500	69,000	74,500	80,000
35	40,000	60,000	65,500	70,000	75,000	80,000
36	40,000	60,000	66,000	70,500	75,500	80,000
37	40,000	60,000	66,500	71,000	76,000	80,000
38	40,000	60,000	67,500	71,500	77,000	80,000
39	40,000	60,000	68,000	72,500	77,500	80,000
40	40,000	60,000	68,500	73,000	78,000	80,000
41	40,000	60,000	69,500	73,500	78,500	80,000
42	40,000	60,000	70,000	74,000	79,000	80,000
43	40,000	60,000	70,500	75,000	80,000	80,000
44	40,000	60,000	71,500	75,500	80,000	80,000
45	40,000	60,000	72,000	76,000	80,000	80,000
46	40,000	60,000	72,500	76,500	80,000	80,000
47	40,000	60,000	73,500	77,500	80,000	80,000
48	40,000	60,000	74,000	78,000	80,000	80,000
49	40,000	60,000	74,500	78,500	80,000	80,000
50	40,000	60,000	75,500	79,000	80,000	80,000
51	40,000	60,000	76,000	80,000	80,000	80,000
52	40,000	60,000	76,500	80,000	80,000	80,000
53	40,000	60,000	77,500	80,000	80,000	80,000
54	40,000	60,000	78,000	80,000	80,000	80,000
55	40,000	60,000	78,500	80,000	80,000	80,000
56	40,000	60,000	79,500	80,000	80,000	80,000
57 or over	40,000	60,000	80,000	80,000	80,000	80,000