

**SPR-821: DEVELOP NEW METHODS TO USE ODOT WEIGH-IN-MOTION DATA
FOR PREDICTING FREIGHT FLOW AND/OR COMMODITY PATTERNS**

Oregon Weight Regulations

by

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In Oregon, the maximum legal gross weight is 80,000 pounds. However, the legal operating weight of specific types of commercial motor vehicles is determined by the following three aspects (ODOT Motor Carrier Transportation Division, 2018b):

1. Tire size.
2. Number of axles.
3. Wheelbase of the vehicle or combination of vehicles.

Based on these aspects, a summary of legal operating weight limits is provided in Table 1.

Table 1: Oregon Legal Operating Limits

Type of Commercial Motor Vehicle	Oregon Limits (Limited to the Lowest)
Single Axle	<ul style="list-style-type: none"> • 600 pounds per inch of tire width on the tires. • Tire manufacturer's sidewall rating. • 20,000 pounds.
Tandem Axle	<ul style="list-style-type: none"> • 600 pounds per inch of total tire width on the tires. • Tire manufacturer's sidewall rating. • 34,000 pounds.
Vehicle of Combination of Vehicles	<ul style="list-style-type: none"> • 600 pounds per inch of total tire width on the tires. • Tire manufacturer's sidewall rating. • 20,000 pounds on a single axle. • 34,000 pounds on a tandem axle. • Group axle weights shown in ODOT Motor Carrier Transportation Division (2018a)¹ • 80,000 pounds gross weight.

Source: ODOT Motor Carrier Transportation Division (2018b)

Although, if a commercial motor vehicle must operate in Oregon with a gross weight between 80,001 pounds and 105,500 pounds, an annual extended weight permit must be completed.²

Lastly, there are exceptions to the Oregon limits listed in Table 1. The weight exceptions in Oregon are as follows (ODOT Motor Carrier Transportation Division, 2018b):

- **Exception 1**
 - *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.*

¹ The Permit Weight Table can be viewed [here](#).

² The Annual Extended Weight Permit form can be viewed [here](#).

- *A permit is required for operations on interstate highways, unless the spacing is 36 feet or greater.*
- **Exception 2**
 - *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.*
- **Exception 3**
 - *An additional 550 pounds is allowed for fully functional idle reduction systems.*
- **Exception 4**
 - *An additional 2,000 pounds is allowed for a vehicle that uses a natural gas as its fuel source.*

REFERENCES

- ODOT Motor Carrier Transportation Division. (2018a). Permit Weight Table 1. Retrieved November 29, 2018, from <https://www.oregon.gov/ODOT/Forms/Motcarr/8110.pdf>
- ODOT Motor Carrier Transportation Division. (2018b). Truck Weight Limits. Retrieved November 29, 2018, from https://www.oregon.gov/ODOT/MCT/Documents/weight_limits.pdf