

## NDHP Weight Limitations Chart

[http://www.nd.gov/ndhp/sites/nd.gov.ndhp/files/docs/permits/Weight\\_Limitations\\_Chart.pdf](http://www.nd.gov/ndhp/sites/nd.gov.ndhp/files/docs/permits/Weight_Limitations_Chart.pdf)

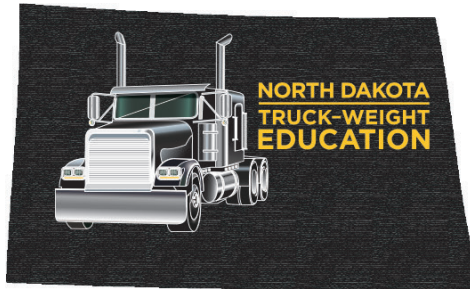
The legal gross vehicle weight (GVW) on ND state highways is 105,500 pounds unless otherwise posted. On all other highways the maximum GVW is 80,000 pounds unless designated for more, not to exceed 105,500 pounds.

The legal GVW on the interstate highway system is 80,000 pounds. An interstate permit is required when a vehicle hauling a reducible load exceeds 80,000 pounds GVW. The GVW shall not exceed 105,500 pounds. For more information on the interstate permit visit the NDHP Motor Carrier website.

<http://www.nd.gov/ndhp/motor-carrier>

*"Weight calculator  
works great."*

— Jackie Darr, ND Highway Patrol



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NDSU

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<http://dotsc.ugpti.ndsu.nodak.edu/TWC/>

# FREE APP



North Dakota  
**TRUCK-WEIGHT  
CALCULATOR**

The **Truck Weight Calculator** is a free app that helps the motor carrier industry, agricultural producers and others determine the maximum legal weight that any set of axles on a vehicle/vehicle combination may carry on ND interstate and state highways. The allowable weight on a vehicle/vehicle combination may increase by either adding additional axles or by increasing the distance between axles.

The formula for the calculator is a weight-to-length ratio. This formula was enacted by Congress and the State to limit the weight-to-length of a vehicle crossing a bridge.

Information required for calculator:

- Total # of axles (Axle Count)
- Number of tires per axle
- Tire width (from tire sidewall reading)
- Distance – linear measurement from axle center to consecutive axle center
- Steering axle rating (Interstate only)

The app features simple picture explanations for intuitive use.

The calculator generates a printable report with truck weight calculation results.

Weight calculations for a vehicle traveling on North Dakota's state highways and local roads are slightly different from the weight calculations for vehicles traveling on North Dakota's interstate system.



ND Truck Weight Calculation Results

3/29/2016

Given Information for Weight Calculator

Truck Info

Highway Type	State Highway	Unit Name	A2
Restriction Type	By Legal Weight	Serial No. (VIN)	10265845961
Axle Count	6	Year/Make	2015 Kenworth
		Customer or Company Name	ND Trucking Inc

Axle Details - Weights

Legal GVW - State:	94,000 lbs.
The maximum legal gross vehicle weight for this vehicle/vehicle combination.	
Weight (per bridge length chart):	94,000 lbs.

Truck image with the Axle Group Number above axle group and Axle Number below each axle.

Distances (the linear measurement from axle center to consecutive axle center) are shown below the axle numbers of the truck image.

A black-centered wheel denotes two tires per axle and a white-centered wheel denotes four tires per axle.

Axle Group Weights

Axle Group Number	Axle Number(s) in Group	Legal Axle Group Weight
1	1	12,100
2	2 - 3	34,000
3	4 - 6	48,000

ND Truck Weight Calculation Results

3/29/2016

Given Information for Weight Calculator

Truck Info

Highway Type	Interstate Highway	Unit Name	A1
Axle Count	6	Serial No. (VIN)	10223343332
		Year/Make	2015 Kenworth
		Customer or Company Name	ND Trucking

Axle Details - Weights

Legal GVW - Interstate:	88,000 lbs.
The maximum legal gross vehicle weight for this vehicle/vehicle combination.	
Maximum gross weight legal on axle #2 through the rearmost trailer axle shall not exceed 76,000 lbs.	
Weight (per bridge length chart):	88,000 lbs.

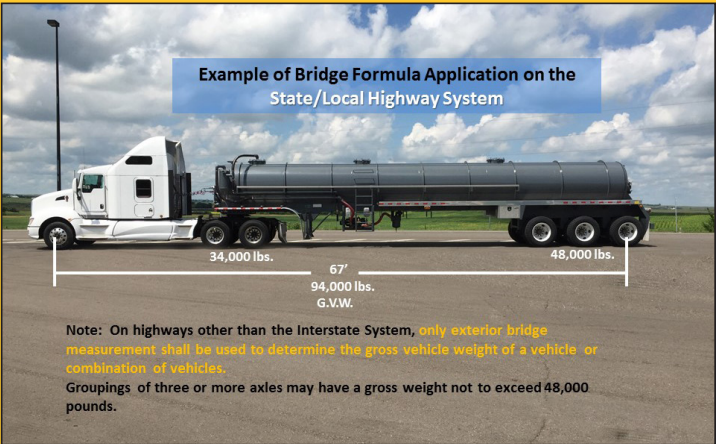
Truck image with the Axle Group Number above axle group and Axle Number below each axle.

Distances (the linear measurement from axle center to consecutive axle center) are shown below the axle numbers of the truck image.

A black-centered wheel denotes two tires per axle and a white-centered wheel denotes four tires per axle.

Axle Group Weights

Axle Group Number	Axle Number(s) in Group	Legal Axle Group Weight
1	1	12,100
2	2 - 3	34,000
3	4 - 6	42,000



The formula is  $W = 500 [LN/N-1 + 12N + 36]$

W = Maximum weight in pounds on any group of two or more axles.

L = Distance in feet between extremes of any group of two or more consecutive axles.

N = Number of axles in the group under consideration.

