NDHP Weight Limitations Chart

http://www.nd.gov/ndhp/sites/nd.gov.ndhp/ files/docs/permits/Weight_Limitations_ Chart.pdf

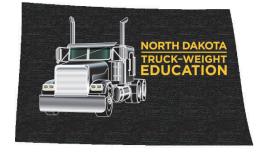
The legal gross vehicle weight (GVW) on ND state highways is 105,500 pounds unless otherwise posted. On all other highways the maximum GVW is 80,000 pounds unless designated for more, not to exceed 105,500 pounds.

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



For more information, contact:

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Jackie Darr ND Highway Patrol Permit Office Truck Weight Expert 701.328.2621 jdarr@nd.gov



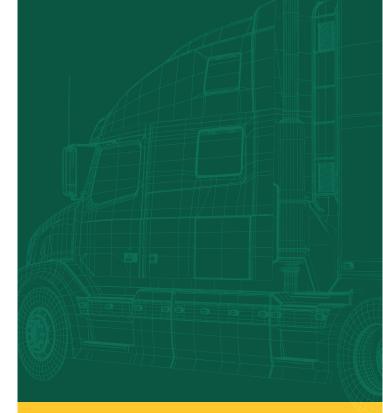
NDSU

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE DEPARTMENT OF TRANSPORTATION SUPPORT CENTER

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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 weightto-length ratio. This formula was enacted by Congress and the State to limit the weightto-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.

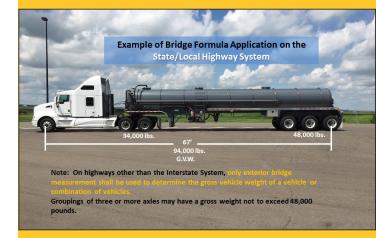
The calculator generates a printable report with truck weight calculation results.

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.



| Given Informatio | on for Weight Calc | ulator Truck Info | | |
|---|---|---|---|---|
| Highway Type | State Highway | Unit Name | | A2 |
| Restriction Type | By Legal Weight | Serial No. (V | /IN) | 10265845961 |
| Axle Count | 6 | Year/Make | | 2015 Kenwrorth |
| | • | Customer or Name | r Company | ND Trucking Inc |
| Axle Details - W | eights | | | |
| Legal GV | W - State: | | 9 | 4,000 lbs. |
| The maximum legal | gross vehicle weight fo | r this vehicle/vehicle c | | , |
| Weight (per bridge le | Weight (per bridge length chart): | | | |
| 'ruck image with the A Distances (the linear n If the truck image. | xle Group Number above | nter to consecutive axi | umber below ea | nown below the axle numbers |
| Truck image with the A Sistances (the linear n of the truck image. L black-centered where | take Group Number above reasurement from axle ce | nter to consecutive axi | umber below es e center) are si wheel denotes | ich axle. nown below the axle numbers |
| ruck image with the A Detances (the linear nr if the truck image. Disck-centered where it is the truck image. if the truck ima | whe Group Number above neasurement from axle ce el denotes two tires per av 2 2 4τ 4τ 4τ 4τ ghts | and a white-centered | wheel denotes | ich axle. nown below the axle numbers four tires per axle. |
| ruck image with the A Natances (the linear n of the truck image. black-centered when black-centered when the truck image. black-centered when the truck image. black image. bl | avide Group Number above weesurement from axie ce avide Network 2 3 47 ⁻¹ 414 ⁻¹ Attack Attack | ter to <u>consecutive</u> axis le and a white-centered 3 4 5 | umber below ee e center) are sl wheel denotes | ich axle. nown below the axle numbers four tires per axle. Note Group Weight |
| ruck image with the A Detances (the linear nr if the truck image. Disck-centered where it is the truck image. if the truck ima | whe Group Number above neasurement from axle ce el denotes two tires per av 2 2 4τ 4τ 4τ 4τ ghts | and a white-centered | wheel denotes | Ich axle. rown below the axle numbers four tires per axle. |

| Given Informati | on for Weight Ca | Iculator Truck Info |) | |
|--|--|---|---|---|
| Highway Type | Interstate Highwa | uy Unit Name | | A1 |
| Axle Count | 6 | Serial No. (| VIN) | 10223343332 |
| | | Year/Make | | 2015 Kenworth |
| | | Customer o Name | r Company | ND Trucking |
| Axle Details - V | /eights | | | |
| Legal GV | W - Interst | ate: | 88 | 3,000 lbs. |
| The maximum lega | l gross vehicle weight | for this vehicle/vehicle of | ombination. | |
| Maximum gross we | eight legal on axle #2 ti | nrough the rearmost trail | er axle shall no | ot exceed 76,000 lbs. |
| Weight (per bridge length chart): | | | 88.000 lbs. | |
| ruck image with the listances (the linear f the truck image. | Axle Group Number abo measurement from axle | | umber below ea e center) are sh | ch axle. own below the axle numbe |
| ruck image with the Distances (the linear of the truck image. | Axle Group Number abo measurement from axle | | umber below ea e center) are sh | ch axle. own below the axle number |
| ruck image with the kistances (the linear of the truck image. black-centered whe | Axle Group Number abo measurement from axle vel denotes two tires per 2 2 3 4 or 330° | axle and a white-centered | umber below ea e center) are sh | ch axle. own below the axle number |
| fruck image with the Natances (the linear of the truck image. Natack-centered whe Natack-centered whe I 120° Axle Group Wee Axle Group Number | Axle Group Number abc measurement from axle el denotes two tires per 2 2 3 1 evo ⁻¹ 33vo ⁻¹ ights Axle | axle and a white-centered | umber below ea e center) are sh wheel denotes | ch axle. own below the axle number |
| Truck image with the Vistances (the linear the truck image. L black-centered whe U 1 120° Axle Group Number 1 | Axle Group Number abc measurement from axle el denotes two tires per 2 2 3 4 aro 1 3 330° ights 1 4 Axle 1 | axie and a white-centered axie and axie and axie | umber below ea e center) are sh wheel denotes | ch axle. own below the axle number four tires per axle. |
| Fruck image with the Distances (the linear of the truck image. A black-centered whe | Axle Group Number abc measurement from axle el denotes two tires per 2 2 3 1 evo ⁻¹ 33vo ⁻¹ ights Axle | axie and a white-centered axie and axie and axie | umber below ea e center) are sh wheel denotes | ch axle. own below the axle number four tires per axle. |



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.

