

Computed to nearest foot by the weight formula in Section 39-12-05 and Section 39-12-05.3 of the North Dakota Century Code. $\frac{V}{V} = \frac{V}{V} + \frac{12N + 36}{V} = \frac{V}{V} + \frac{12N + 36}{V} = \frac{V}{V} = \frac{V}{V} + \frac{V}{V} = \frac{V}{V} + \frac{V}{V} = \frac{V}{V} = \frac{V}{V} + \frac{V}{V} = \frac{V}{$

 $W = 500(\frac{LN}{N-1} + 12N + 36)$ Distance in feet between the

Distance in feet between the extremes of any groups of 2 or more consecutive axles	2 Axles 3 Axles		Pounds Carried on 5 Axles	any Group of 2 or More 6 Axles	e Consecutive Axles 7 Axles	8 Axles	9 Axles
4	34,000	17000	070000	07000	77000	OTINIO	O 7 IXIOO
5 6	34,000 34,000						
7	34,000 34,000						
8 9	38,000 42,000 39,000 43,000						
10	39,000 43,000 40,000* 43,500						
11	44,500						
12 13	45,000 46,000	50,000 50,500					
13 14	46,500	51,500	57,000				
15	47,500	52,000	57,500				
16 17	48,000 49,000	52,500 53,500	58,000 58,500				
18	49,500 49,500	54,000	59,500				
19	50,500	54,500	60,000	22.222			
20 21	51,000 52,000	55,500 56,000	60,500 61,000	66,000 66,500			
22	52,500	56,500	62,000	67,000			
23	53,500	57,500	62,500	68,000	74.000		
24 25	54,000 55,000	58,000 58,500	63,000 63,500	68,500 69,000	74,000 74,500		
26	55,500	59,500	64,500	69,500	75,000		
27	56,500	60,000	65,000	70,000	76,000	00.000	
28 29	57,000 58,000	60,500 61,500	65,500 66,000	71,000 71,500	76,500 77,000	82,000 82,500	
30	58,500	62,000	67,000	72,000	77,500	83,000	
31 32	59,500 60,000*	62,500 63,500	67,500 68,000	72,500 73,000	78,000 78,500	84,000 84,500	90,000
32 33	ου,υυU	64,000	68,500	74,000	79,500	85,000	90,500
34		64,500	69,500	74,500	80,000	85,500	91,000
35 36	Two consecutive sets of tandem axles may carry	65,500 a 66,000	70,000 70,500	75,000 75,500	80,500 81,000	86,000 86,500	91,500 92,500
37	gross load of 34,000 pounds each provided the	66,500	71,000	76,000	81,500	87,000	93,000
38	overall distance between the first and last axles		72,000	77,000	82,000	87,500	93,500
39 40	such consecutive sets of tandem axles is 36 feet more.	or 68,000 68,500	72,500 73,000	77,500 78,000	83,000 83,500	88,500 89,000	94,000 94,500
41	more.	69,500	73,500	78,500	84,000	89,500	95,000
42		70,000	74,500	79,000	84,500	90,000	95,500
43 44		70,500 71,500	75,000 75,500	80,000 80,500	」 85,000 85,500	90,500 91,000	96,000 97,000
45		72,000	76,000	81,000	86,500	91,500	97,500
46 47		72,500 73,500	77,000 77,500	81,500 82,000	87,000 87,500	92,500 93,000	98,000 98,500
48		74,000	78,000	83,000	88,000	93,500	99,000
49		74,500	78,500	83,500	88,500	94,000	99,500
50 51		75,500 76,000	79,500 80,000	84,000 84,500	89,000 90,000	94,500 95,000	100,000 100,500
52		76,500	80,500	85,000	90,500	95,500	101,500
53		77,500	81,000	86,000	91,000	96,500	102,000
54 55		78,000 78,500	82,000 82,500	86,500 87,000	91,500 92,000	97,000 97,500	102,500 103,000
56	Gross weight limit on interstate. Gross weight lim	it 79,500	83,000	87,500	92,500	98,000	103,500
57 58	on county and other local highways unless designated for more.	80,000*	83,500 84,500	88,000 89,000	93,500 94,000	98,500 99,000	104,000 104,500
59	designated for more.		85,000	89,500	94,500	99,500	105,000
60			85,500	90,000	95,000	100,500	105,500*
61 62			86,000 87,000	90,500 91,000	95,500 96,000	101,000 101,500	
63			87.500	92,000	97,000	102,000	
64			88,000	92,500	97,500	102,500	
65 66			88,500 89,500	93,000 93,500	98,000 98,500	103,000 103,500	
67			90.000	94,000	99,000	104,500	
68 69			90,500 91,000	95,000 95,500	99,500 100,500	105,000 105,500*	
69 70			92,000	95,500 96,000	100,500 101,000	105,500*	
71			92,500	96,500	101,500		
72 73			93,000 93,500	97,000 98,000	102,000 102,500		
73 74			94,500	98,500	102,500		
75			95,000	99,000	104,000		
76 77			95,500 96,000	99,500 100,000	104,500 105,000		
77 78			97,000	101,000	105,500*		
79			97,500	101,500	•		
80 81			98,000 98,500	102,000 102,500			
82			99,500	103,000			
83			100,000*	103,000 104,000	*** -	NA/-1-1-1	
84 85				104,500 105,000	*Maximum Gi	ross Weight	
86				105,500*			

No single axle shall carry a gross weight in excess of 20,000 pounds. Axles spaced 40 inches or less apart are considered one axle. Axles spaced eight (8) feet apart or over are considered as individual axles. The gross weight of two individual axles may be restricted by the weight formula except that on highways other than the interstate, two axles spaced eight (8) feet apart or more may have a combined gross weight not to exceed 40,000 pounds. Spacing between axles shall be measured from axle center to axle center.

Axles spaced over 40 inches apart and less than eight (8) feet apart shall not carry a gross weight in excess of 19,000 pounds per axle. The gross weight on a tandem axle shall not exceed 34,000 pounds. The gross weight of three or more axles in a grouping is determined by the measurement between the extreme axle centers except that on highways other than the interstate, groupings of three or more axles may have a gross weight not to exceed 48,000 pounds.

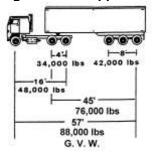
The weight per inch width of tire shall not exceed 550 pounds. Metric tire sizes are converted to inches by dividing millimeters by 25.4. The width of tire for solid tires shall be the rim width. For pneumatic tires the width of tire shall be the manufacturer's width. The weight in pounds on any one wheel shall not exceed one-half the allowable axle weight. Dual tires are considered one (1) wheel.

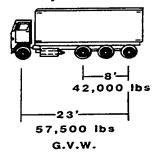
The weight on the steering axle shall be determined by the manufacturer's axle rating and shall not exceed 20,000 pounds when travel is on the interstate system or on Defense Highways. When travel is on Defense Highways, the load shall be for the US Department of Defense.

Tire Width	Single Axle (2 Tires)	Single Axle (4 Tires)	Tandem Axle (4 Tires)	Tandem Axle (8 Tires)	Triple Axle (6 Tires)	Triple Axle (12 Tires)
7:00	7,700	15,400	15,400	30,800	23,100	
7:50	8,250	16,500	16,500	33,000	24,750	_
8:00	8,800	17,600	17,600	34,000	26,400	<u> </u>
8:25	9,075	18,150	18,150	34,000	27,225	Formula
9:00	9,900	19,800	19,800	34,000	29,700	Η̈́
10:00	11,000	20,000	22,000	34,000	33,000	Weight
11:00	12,100	20,000	24,200	34,000		We
12:00	13,200	20,000	26,400	34,000	> <u>a</u> <	by
13:00	14,300	20,000	28,600	34,000	d b mu	
14:00	15,400	20,000	30,800	34,000	ine -or	ji.
15:00	16,500	20,000	33,000	34,000	E H	ern
16:50	18,150	20,000	34,000	34,000	Determined by Weight Formula	Determined
17:50	19,250	20,000	34,000	34,000	□≥	_
18:00	19,800	20,000	34,000	34,000	11.1	

NOTE: Axle weights may be reduced during the spring breakup season or on otherwise posted highways. Axle weights may be reduced by Bridge Load Limitations Map.

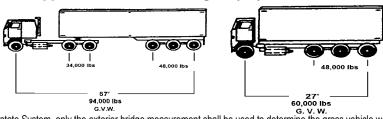
Examples of Bridge Formula Application on the Interstate System





Note: On the Interstate System, the interior and exterior bridge measurement shall be used to determine the gross vehicle weight of a vehicle or combination of vehicles. Maximum legal gross vehicle weight on the interstate system is 80,000 pounds without a permit.

Examples of Bridge Formula Application on the State Highway System



Note: On highways other than the Interstate System, only the exterior bridge measurement shall be used to determine the gross vehicle weight of a vehicle or combination of vehicles. Groupings of three or more axles may have a gross weight not to exceed 48,000 pounds.

See Highway Patrol for additional information on 4-axle straight trucks.

Examples of Metri	ic Tire Conversion		
Metric Tire Size	Tire Width in Inches	Metric Tire Size	Tire Width in Inches
245/75R22.5	9.6 inches	315/75R22.5	12.4 inches
255/70R22.5	10.0 inches	385/65R22.5	15.1 inches
265/75R22.5	10.4 inches	425/65R22.5	16.7 inches
275/80R22.5	10.8 inches	445/65R22.5	17.5 inches
285/75R24.5	11.2 inches	455/65R22.5	17.9 inches
295/75R22.5	11.6 inches	465/65R22.5	18.3 inches

Tire Size and Dimensional Definitions 13/80R20

13 = Tire width (inches)

80 = Ratio of tire width to tire height

R = Radial

20 = Rim diameter (inches)

295/75R22.5

295 = Tire width (millimeters)

75 = Ratio of tire width to tire height Radial

22.5 = Rim diameter (inches)

10% Chart	Legal Weight	10% Weights
Tire Sizes	Single Axle 2 Tires	Single Axle 2 Tires
10:00 / 255	11000	12100
11:00 /280	12100	13310
12:00 / 305	13200	14520
245 / 9.6	10560	11616
265 /10.4	11440	12584
275 / 10.8	11880	13068
285 / 11.2	12320	13552
295 / 11.6	12760	14036
315 /12.4	13640	15004
385 /15.1	16610	18271
425 / 16.7	18370	20207
445 / 17.5	19250	21175
455 /17.9	19690	21659
465 / 18.3	20000	22000

10% Weights
Single Axle 4 Tires
22000
Tandem Axle 8 Tires
37400
Tridem Axle 12 Tires
52800
Quad Axle 16 Tires
52800

10% Weight Increases Are Not Allowed On The Interstate

North Dakota Department of Transportation Spring Load Restriction Classifications

Class	Single Axle	Tandem Axle	3 Axles or More	Gross Vehicle Weight
Restricted by Legal Weights	20,000 lbs.	34,000 lbs. – not to exceed 17,000 lbs. per axle	17,000 lbs./axle. On divisible loads the gross weight of the axle grouping may not exceed 48,000 lbs.	Not to exceed 105,500 lbs.
8-Ton	Not to exceed 16,000 lbs.	Not to exceed 16,000 lbs. per axle	14,000 lbs./axle. On divisible loads the gross weight of the axle grouping may not exceed 42,000 lbs.	Not to exceed 105,500 lbs.
7-Ton	Not to exceed 14,000 lbs.	Not to exceed 14,000 lbs. per axle	12,000 lbs./axle. On divisible loads the gross weight of the axle grouping may not exceed 36,000 lbs.	Not to exceed 105,500 lbs.
6-Ton	Not to exceed 12,000 lbs.	Not to exceed 12,000 lbs. per axle	10,000 lbs_/axle. On divisible loads the gross weight of the axle grouping may not exceed 30,000 lbs.	Not to exceed 80,000 lbs.
5-Ton	Not to exceed 10,000 lbs.	Not to exceed 10,000 lbs. per axle	10,000 lbs./axle. On divisible loads the gross weight of the axle grouping may not exceed 30,000 lbs.	Not to exceed 80,000 lbs.