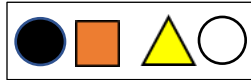




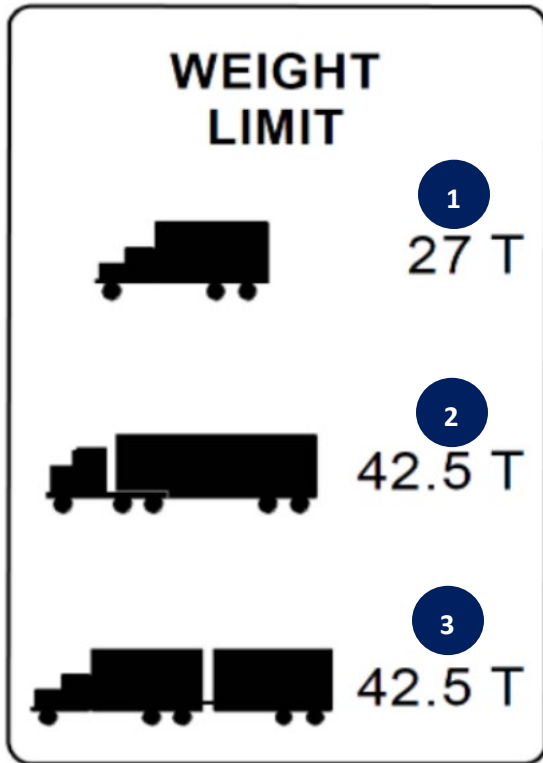
Bridge Weight Limits

Determine which Colorado bridges you can safely travel.

Be prepared: Your number of axles, overall weight and how you disperse your load will determine your bridge safety color code. Follow these steps to determine which color code you should follow for Colorado bridge crossing safety.



STEP 1: Determine your Truck Type based on type and number of axles:



1

Single Unit Truck:

- 2 to 6 axles

2

Tractor and Semi-Trailer

- 2 Axle Tractor, 1 Axle Semi-Trailer
- 2 Axle Tractor, 2 Axle Semi-Trailer
- 3 Axle Tractor, 1 Axle Semi-Trailer
- 3 Axle Tractor, 2 Axle Semi-Trailer
- 3 Axle Tractor, 3 Axle Semi-Trailer

3

Tractor, Semi-Trailer and Full Trailer

- 2 Axle Truck, 1 Axle Balanced Trailer
- 3 Axle Truck, 1 Axle Balanced Trailer
- 2 Axle Truck, 1 Axle Full Trailer
- 2 Axle Truck, 2 Axle Full Trailer
- 2 Axle Truck, 3 Axle Full Trailer
- 3 Axle Truck, 2 Axle Full Trailer
- 3 Axle Truck, 3 Axle Full Trailer
- 3 Axle Truck, 2 Axle Trailer, 2 Axle Trailer
- 2 Axle Tractor, 1 Axle Semi-Trailer, 2 Axle Full Trailer
- 2 Axle Tractor, 2 Axle Semi-Trailer, 2 Axle Full Trailer
- 3 Axle Tractor, 1 Axle Semi-Trailer, 2 Axle Full Trailer
- 3 Axle Tractor, 2 Axle Semi-Trailer, 2 Axle Full Trailer
- 2 Axle Tractor, 2 Axle Semi-Trailer, 3 Axle Full Trailer



STEP 2: Determine the **Smallest Distance Between Axle Groups**.

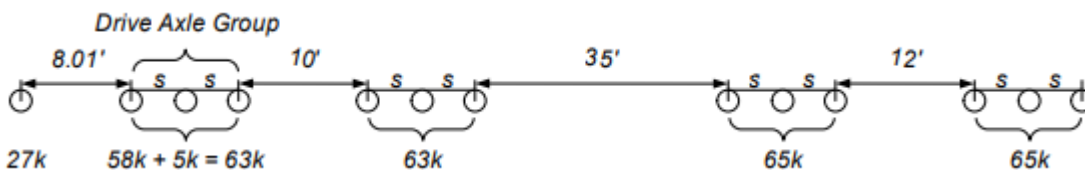
- An axle group is a group of consecutive axles where the space(s) between axles is more than 40 inches and less than 96 inches.
- the smallest space between axle groupings is used to measure weight bearing.

The following is an example of axle distance measurements:



STEP 3: Know your **Weight Per Axle Group**.

Maximum weight is based on axle group weight. The diagram below shows the distance between axles as well as weight allowed on each axle group.



For the example above: the diagram has the maximum weight of 283,000 pounds, which places this truck & load to only safely travel on white color-coded Colorado Bridges.



STEP 4: Determine your maximum weight allowed per axle determined color code.

- The maximum allowed axle weights applies to all overweight permitted vehicles





Notes:

- An additional 5,000 pounds may be added to the primary drive axle group per permitted vehicles, regardless of color code.
- All loads greater than 200,000 pounds require a Chapter 6 Special or Super Load permit
- All loads on a Double Dolly require axle width consideration. See Appendix below.

Maximum Allowable Weight per axle (per 1,000 pounds), based on Number of Axles & Distance Between Axles.

Axle Groups	Distance Between Axle Groups								
	Between 8 and 10 feet			Between 10 and 12 feet			Greater than 12 feet		
Single	22	25	27	22	25	27	22	25	27
Tandem	36	39	43	39	43	47	42	46	50
Triple	49	53	58	53	58	63	55	60	65
Four or More	52	57	62	57	62	68	60	66	72

STEP 5: Determine your color code. Follow this [map](#) to determine eligible bridges for travel, based on your load's color code.

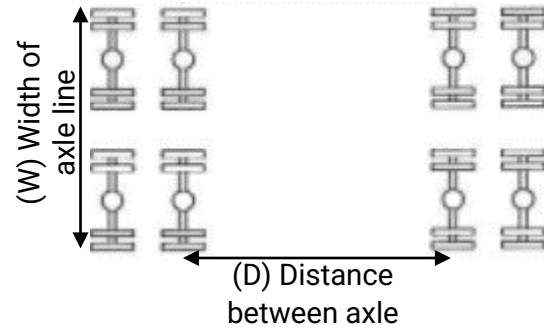
Black		No overweight trucks allowed
Orange		Load weights, as found above, can cross Orange, Yellow or No/White coded state bridges.
Yellow		Load weights, as found above, can cross Yellow or No/White coded state bridges.
No Color/ White		Load weights, as found above, can cross No/White coded state bridges.
Your load doesn't meet any color code?		Load weight above maximums. These loads may not use Colorado State Highways.



Appendix

Double Dolly Chart of allowable weight per axle group (x 1,000 pounds)

A **Double Dolly** is two independent axles adjacent to each other creating an axle line. Each axle line consists of eight tires. This arrangement is typically used for transporting very large and heavy loads such as Electrical Transformers or Refinery Equipment.



Note: this is based on the AASHTO standard specifications for live load distribution factors for a concrete deck on Steel I-beams or on prestressed concrete girders.

(W) Width	Axle Groups	(D) Distance Between Axle Groups											
		Between 8 & 10 feet			Between 10 & 12 feet			Between 12 & 14 feet			Greater than 14 feet		
up to less than 10 feet	Single	22	25	27	22	25	27	22	25	27	22	25	27
	Tandem	36	39	43	39	43	47	42	46	50	42	46	50
	Triple	49	53	58	53	58	63	55	60	65	55	60	65
	Four or More	52	57	62	57	62	68	60	66	72	60	66	72
10 to less than 11 feet	Single	23.3	26.4	28.5	23.3	26.4	28.5	23.3	26.4	28.5	23.3	26.4	28.5
	Tandem	38.1	42.2	45.5	41.2	45.5	49.7	44.4	48.6	52.9	48.0	52.5	57.1
	Triple	51.8	56.6	61.3	56.0	61.3	66.6	58.1	63.4	68.7	62.8	68.5	74.2
	Four or More	55.0	60.3	65.5	60.3	65.5	71.9	63.4	69.8	76.1	68.5	75.4	82.2
11 to less than 12 feet	Single	24.5	27.9	30.1	24.5	27.9	30.1	24.5	30.1	30.1	24.5	27.9	30.1
	Tandem	40.1	43.5	47.9	43.5	47.9	52.4	46.8	55.7	55.7	50.5	55.4	60.2
	Triple	54.6	59.1	64.6	59.1	64.6	70.2	61.3	66.9	72.4	66.2	72.2	78.2
	Four or More	57.9	63.5	69.1	63.5	69.1	75.8	66.9	73.5	80.2	72.2	79.4	86.6
12 to less than 13 feet	Single	25.8	29.3	31.6	25.8	29.3	31.6	25.8	29.3	31.6	25.8	29.3	31.6
	Tandem	42.2	45.7	50.4	45.7	50.4	55.1	49.2	53.9	58.6	53.1	58.2	63.3
	Triple	57.4	62.1	67.9	62.1	67.9	73.8	64.4	70.3	76.1	69.6	75.9	82.2
	Four or More	60.9	66.8	72.6	66.8	72.6	79.7	70.3	77.3	84.3	75.9	83.5	91.1
13 to less than 14 feet	Single	27.0	30.7	33.2	27.0	30.7	33.2	27.0	30.7	33.2	27.0	30.7	33.2
	Tandem	44.2	47.9	52.8	47.9	52.8	57.8	51.6	56.5	61.4	55.7	61.0	66.4
	Triple	60.2	65.1	71.2	65.1	71.2	77.4	67.6	73.7	79.8	73.0	79.6	86.2
	Four or More	63.9	70.0	76.2	70.0	76.2	83.6	73.7	81.1	88.4	79.4	87.6	95.5



COLORADO

Department of Transportation

Freight Mobility & Safety Branch

14 to less than 15 feet	Single	28.3	32.2	34.7	28.3	32.3	34.7	28.3	32.2	34.7	28.3	32.1	34.6
	Tandem	46.3	50.2	55.3	50.2	55.3	60.5	54.0	59.2	64.3	58.3	63.9	69.4
	Triple	63.0	68.2	74.6	68.2	74.6	81.0	70.7	77.2	83.6	76.4	83.3	90.2
	Four or More	66.9	73.3	79.7	73.3	79.7	87.5	77.2	84.9	92.9	83.3	91.6	100.0
15 to less than 16 feet	Single	29.6	33.6	36.2	29.6	33.6	36.2	29.6	33.6	36.2	29.5	33.6	36.3
	Tandem	48.4	52.4	57.8	52.4	57.8	63.1	56.4	61.8	67.2	60.9	66.7	72.5
	Triple	65.8	71.2	77.9	71.2	77.9	84.6	73.8	80.6	87.3	79.7	87.0	94.2
	Four or More	69.8	76.6	83.2	76.6	83.2	91.3	80.6	88.6	96.7	87.0	95.7	104.4
16 to less than 17 feet	Single	30.8	35.0	37.8	29.6	35.0	37.8	30.8	35.0	37.8	32.1	35.0	37.8
	Tandem	50.4	54.6	57.8	52.4	60.2	65.8	58.8	64.4	70.0	66.1	69.9	75.6
	Triple	68.6	74.2	77.9	71.2	81.2	91.8	77.0	84.0	91.0	86.5	90.7	98.2
	Four or More	72.8	79.8	83.2	76.6	86.8	95.2	84.0	92.4	100.8	94.4	99.8	108.8
17 to less than 18 feet	Single	32.1	36.4	39.3	32.1	36.4	39.3	32.1	36.4	39.3	332.1	36.4	39.3
	Tandem	52.5	56.8	62.7	56.8	62.7	68.5	61.2	67.0	72.9	66.1	72.4	78.7
	Triple	71.4	77.2	84.7	77.2	84.5	91.8	80.1	87.4	94.7	86.5	94.4	102.3
	Four or More	75.8	83.1	90.3	83.1	90.3	99.1	87.4	96.2	104.9	94.4	103.9	113.3
18 to less than 19 feet	Single	33.3	37.9	40.9	33.3	37.9	40.9	33.3	37.9	40.9	33.3	37.9	40.9
	Tandem	54.5	59.1	65.1	59.1	65.1	71.2	63.6	69.7	75.7	68.7	75.2	81.8
	Triple	74.2	80.3	87.8	80.3	87.8	95.4	83.3	90.9	98.4	89.9	98.1	106.3
	Four or More	78.7	86.3	93.9	86.3	93.9	103.0	90.9	99.9	109.9	98.1	107.9	117.7
19 to less than 20 feet	Single	34.6	39.3	42.4	34.6	39.3	42.4	34.6	39.3	42.4	34.6	39.3	42.4
	Tandem	56.6	61.3	67.6	61.3	67.6	73.9	66.0	72.3	78.6	71.3	78.1	84.9
	Triple	77.0	83.3	91.1	83.3	91.1	99.0	86.4	94.3	102.2	93.3	101.8	110.3
	Four or More	81.7	89.6	97.4	89.6	97.4	106.9	94.3	103.7	113.1	101.8	112.0	122.1