



COLORADO

Department of Transportation

Freight Mobility & Safety Branch

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 number and type of axles.

Type One: Single Unit Truck

Weight Limit: 27 Tons

- 2 to 6 axles

Type Two: Tractor and Semi-Trailer

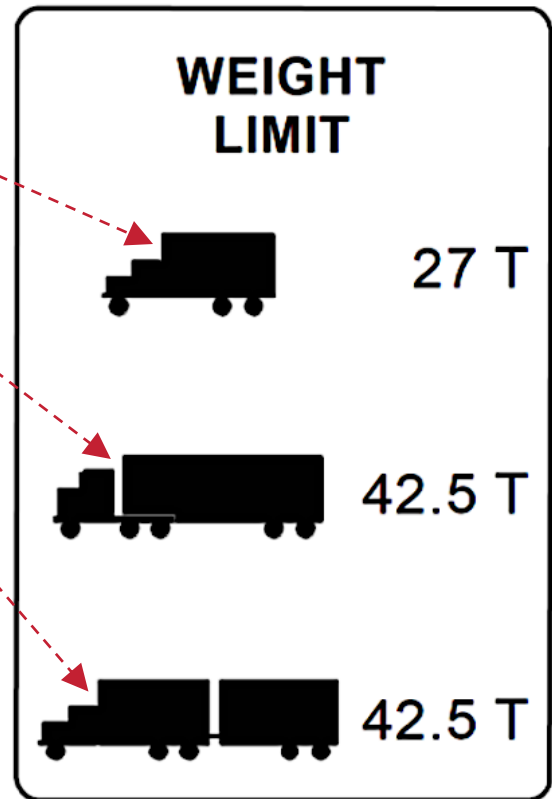
Weight Limit: 42.5 Tons

- 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

Type Three: Tractor, Semi-Trailer and Full Trailer

Weight Limit: 42.5 Tons

- 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

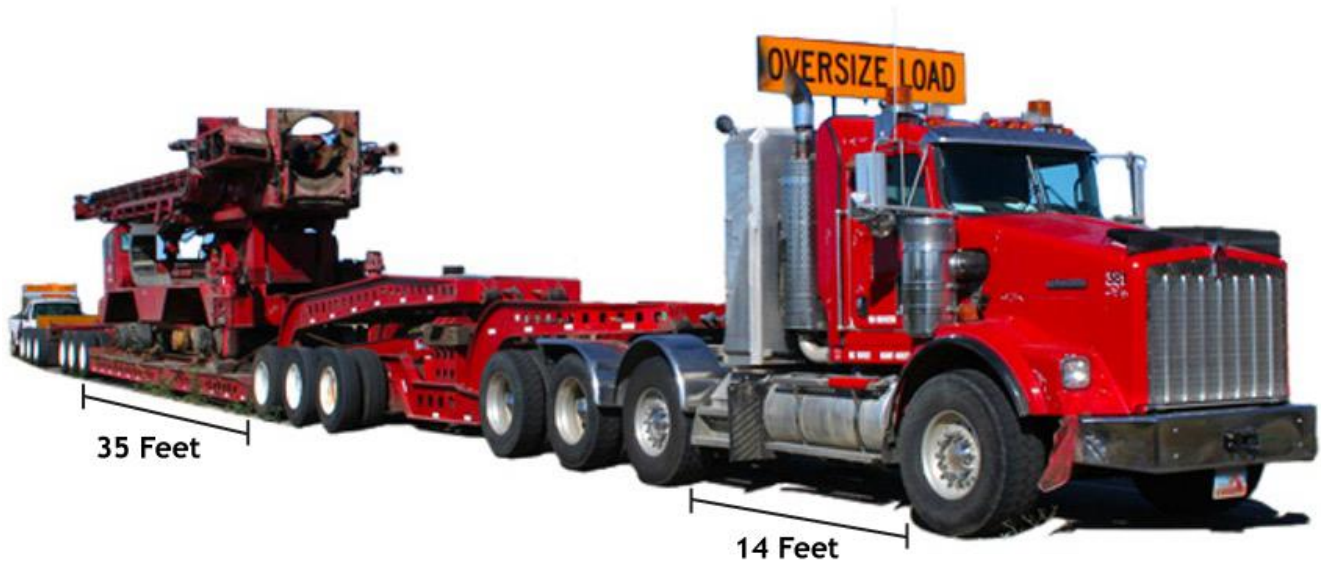




Step 2: Determine the Smallest Distance Between Axle Groups.

- 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.

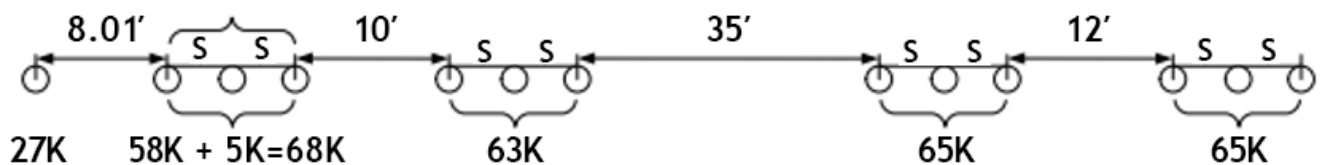
The following diagram illustrates an example of axle distance measurements. The distance between the front axle and the next axle back is marked as 14 feet. The distance between the axles closer to the back are marked as 35 feet.



Step 3: Know your Weight Per Axle Group.

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

Drive Axle Group



This configuration has the maximum weight of 288,000 pounds which makes this truck and load safe to travel only on white color-coded Colorado bridges.



Step 4: Determine your **Maximum Weight Allowed Per Axle Color Code**.

The maximum allowed axle weights apply 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.**

The tables below show the maximum allowable weight per axle (x 1,000 pounds) based on the number of and distance between axle groups for orange, yellow or no/white coded state bridges.

**Distance Between Axle Groups
8 to 10 feet**

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 36 | 39 | 43 |
| Triple | 49 | 53 | 58 |
| Four or More | 52 | 57 | 62 |

**Distance Between Axle Groups
10 to 12 feet**

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 39 | 43 | 47 |
| Triple | 53 | 58 | 63 |
| Four or More | 57 | 62 | 68 |

**Distance Between Axle Groups
Greater than 12 feet**

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 42 | 46 | 50 |
| Triple | 55 | 60 | 65 |
| Four or More | 60 | 66 | 72 |

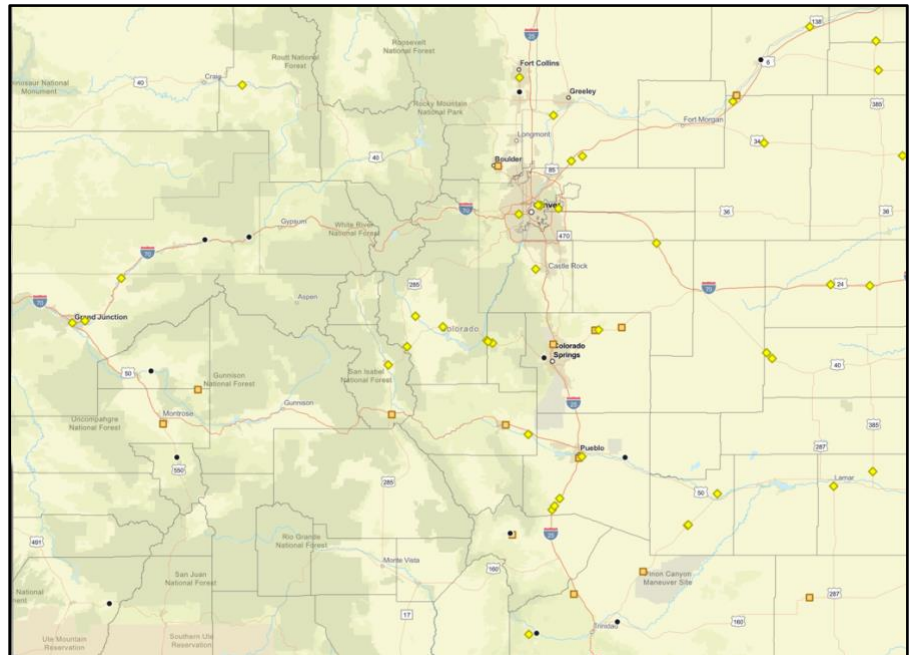


Step 5: Determine your Color Code.

Consult the **Bridge Weight Limit Restriction Dashboard** [map](#) to determine eligible bridges for travel, based on your load’s color code. Color codes on the map are represented by colored shape icons as indicated below.

| Load Color | | Allowable Loads |
|--|---|---|
| Black (black circle with white outline) | ● | No overweight trucks allowed. |
| Orange (orange square with darker outline) | ■ | Load weights, as found above, can cross Orange, Yellow or No/White coded state bridges. |
| Yellow (yellow diamond with darker outline) | ◆ | Load weights, as found above, can cross Yellow or No/White coded state bridges. |
| No Color/White (white circle with black outline) | ○ | 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. |

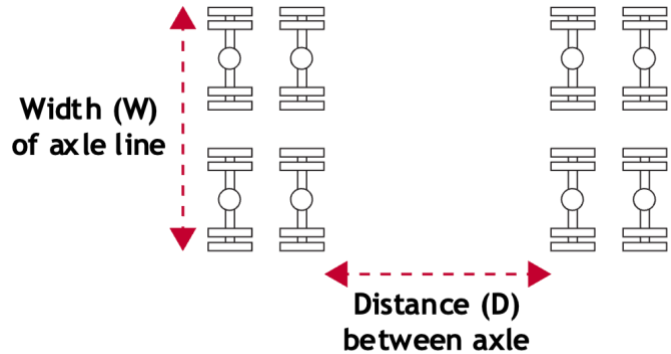
This screenshot of the interactive map on the Colorado Bridge Weight Limit Dashboard shows the color codes for bridges throughout the state.





Appendix: Double Dolly Charts 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 concrete deck on steel I-beams or on prestressed concrete girders.

Double Dolly Charts for Width (W) of Axle Up to Less than 10 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 36 | 39 | 43 |
| Triple | 49 | 53 | 58 |
| Four or More | 52 | 57 | 62 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 39 | 43 | 47 |
| Triple | 53 | 58 | 63 |
| Four or More | 57 | 62 | 68 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 42 | 46 | 50 |
| Triple | 55 | 60 | 65 |
| Four or More | 60 | 66 | 72 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 22 | 25 | 27 |
| Tandem | 42 | 46 | 50 |
| Triple | 55 | 60 | 65 |
| Four or More | 60 | 66 | 72 |



Double Dolly Charts for Width (W) of Axle 10 to Less Than 11 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 23.3 | 26.4 | 28.5 |
| Tandem | 38.1 | 42.2 | 45.5 |
| Triple | 51.8 | 56.6 | 61.3 |
| Four or More | 55.0 | 60.3 | 65.5 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 23.3 | 26.4 | 28.5 |
| Tandem | 41.2 | 45.5 | 49.7 |
| Triple | 56.0 | 61.3 | 66.6 |
| Four or More | 60.3 | 65.5 | 71.9 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 23.3 | 26.4 | 28.5 |
| Tandem | 44.4 | 48.6 | 52.9 |
| Triple | 58.1 | 63.4 | 68.7 |
| Four or More | 63.4 | 69.8 | 76.1 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 23.3 | 26.4 | 28.5 |
| Tandem | 48.0 | 52.5 | 57.1 |
| Triple | 62.8 | 68.5 | 74.2 |
| Four or More | 68.5 | 75.4 | 82.2 |

Double Dolly Charts for Width (W) of Axle 11 to Less Than 12 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 24.5 | 27.9 | 30.1 |
| Tandem | 40.1 | 43.5 | 47.9 |
| Triple | 54.6 | 59.1 | 64.6 |
| Four or More | 57.9 | 63.5 | 69.1 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 24.5 | 27.9 | 30.1 |
| Tandem | 43.5 | 47.9 | 52.4 |
| Triple | 59.1 | 64.6 | 70.2 |
| Four or More | 63.5 | 69.1 | 75.8 |



Double Dolly Charts for Width (W) of Axle 11 to Less Than 12 Feet (Continued)

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 24.5 | 30.1 | 30.1 |
| Tandem | 46.8 | 55.7 | 55.7 |
| Triple | 61.3 | 66.9 | 72.4 |
| Four or More | 66.9 | 73.5 | 80.2 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 24.5 | 27.9 | 30.1 |
| Tandem | 50.5 | 55.4 | 60.2 |
| Triple | 66.2 | 72.2 | 78.2 |
| Four or More | 72.2 | 79.4 | 86.6 |

Double Dolly Charts for Width (W) of Axle 12 to Less Than 13 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 25.8 | 29.3 | 31.6 |
| Tandem | 42.2 | 45.7 | 50.4 |
| Triple | 57.4 | 62.1 | 67.9 |
| Four or More | 60.9 | 66.8 | 72.6 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 25.8 | 29.3 | 31.6 |
| Tandem | 45.7 | 50.4 | 55.1 |
| Triple | 62.1 | 67.9 | 73.8 |
| Four or More | 66.8 | 72.6 | 79.7 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 25.8 | 29.3 | 31.6 |
| Tandem | 49.2 | 53.9 | 58.6 |
| Triple | 64.4 | 70.3 | 76.1 |
| Four or More | 70.3 | 77.3 | 84.3 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 25.8 | 29.3 | 31.6 |
| Tandem | 53.1 | 58.2 | 63.3 |
| Triple | 69.6 | 75.9 | 82.2 |
| Four or More | 75.9 | 83.5 | 91.1 |



Double Dolly Charts for Width (W) of Axle 13 to Less Than 14 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 27.0 | 30.7 | 33.2 |
| Tandem | 44.2 | 47.9 | 52.8 |
| Triple | 60.2 | 65.1 | 71.2 |
| Four or More | 63.9 | 70.0 | 76.2 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 27.0 | 30.7 | 33.2 |
| Tandem | 47.9 | 52.8 | 57.8 |
| Triple | 65.1 | 71.2 | 77.4 |
| Four or More | 70.0 | 76.2 | 83.6 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 27.0 | 30.7 | 33.2 |
| Tandem | 51.6 | 56.5 | 61.4 |
| Triple | 67.6 | 73.7 | 79.8 |
| Four or More | 73.7 | 81.1 | 88.4 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 27.0 | 30.7 | 33.2 |
| Tandem | 55.7 | 61.0 | 66.4 |
| Triple | 73.0 | 79.6 | 86.2 |
| Four or More | 79.4 | 87.6 | 95.5 |

Double Dolly Charts for Width (W) of Axle 14 to Less Than 15 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 46.3 | 50.2 | 55.3 |
| Tandem | 63.0 | 68.2 | 74.6 |
| Triple | 66.9 | 73.3 | 79.7 |
| Four or More | 46.3 | 50.2 | 55.3 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 50.2 | 55.3 | 60.5 |
| Tandem | 68.2 | 74.6 | 81.0 |
| Triple | 73.3 | 79.7 | 87.5 |
| Four or More | 50.2 | 55.3 | 60.5 |



Double Dolly Charts for Width (W) of Axle 14 to Less Than 15 Feet (Continued)

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 54.0 | 59.2 | 64.3 |
| Tandem | 70.7 | 77.2 | 83.6 |
| Triple | 77.2 | 84.9 | 92.9 |
| Four or More | 54.0 | 59.2 | 64.3 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 58.3 | 63.9 | 69.4 |
| Tandem | 76.4 | 83.3 | 90.2 |
| Triple | 83.3 | 91.6 | 100.0 |
| Four or More | 58.3 | 63.9 | 69.4 |

Double Dolly Charts for Width (W) of Axle 15 to Less Than 16 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 29.6 | 33.6 | 36.2 |
| Tandem | 48.4 | 52.4 | 57.8 |
| Triple | 65.8 | 71.2 | 77.9 |
| Four or More | 69.8 | 76.6 | 83.2 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 29.6 | 33.6 | 36.2 |
| Tandem | 52.4 | 57.8 | 63.1 |
| Triple | 71.2 | 77.9 | 84.6 |
| Four or More | 76.6 | 83.2 | 91.3 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 29.6 | 33.6 | 36.2 |
| Tandem | 56.4 | 61.8 | 67.2 |
| Triple | 73.8 | 80.6 | 87.3 |
| Four or More | 80.6 | 88.6 | 96.7 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 29.5 | 33.6 | 36.3 |
| Tandem | 60.9 | 66.7 | 72.5 |
| Triple | 79.7 | 87.0 | 94.2 |
| Four or More | 87.0 | 95.7 | 104.4 |



Double Dolly Charts for Width (W) of Axle 16 to Less Than 17 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 30.8 | 35.0 | 37.8 |
| Tandem | 50.4 | 54.6 | 57.8 |
| Triple | 68.6 | 74.2 | 77.9 |
| Four or More | 72.8 | 79.8 | 83.2 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 29.6 | 35.0 | 37.8 |
| Tandem | 52.4 | 60.2 | 65.8 |
| Triple | 71.2 | 81.2 | 91.8 |
| Four or More | 76.6 | 86.8 | 95.2 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 30.8 | 35.0 | 37.8 |
| Tandem | 58.8 | 64.4 | 70.0 |
| Triple | 77.0 | 84.0 | 91.0 |
| Four or More | 84.0 | 92.4 | 100.8 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 32.1 | 35.0 | 37.8 |
| Tandem | 66.1 | 69.9 | 75.6 |
| Triple | 86.5 | 90.7 | 98.2 |
| Four or More | 94.4 | 99.8 | 108.8 |

Double Dolly Charts for Width (W) of Axle 17 to Less Than 18 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 32.1 | 36.4 | 39.3 |
| Tandem | 52.5 | 56.8 | 62.7 |
| Triple | 71.4 | 77.2 | 84.7 |
| Four or More | 75.8 | 83.1 | 90.3 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 32.1 | 36.4 | 39.3 |
| Tandem | 56.8 | 62.7 | 68.5 |
| Triple | 77.2 | 84.5 | 91.8 |
| Four or More | 83.1 | 90.3 | 99.1 |



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Double Dolly Charts for Width (W) of Axle 17 to Less Than 18 Feet (Continued)

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 32.1 | 36.4 | 39.3 |
| Tandem | 61.2 | 67.0 | 72.9 |
| Triple | 80.1 | 87.4 | 94.7 |
| Four or More | 87.4 | 96.2 | 104.9 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 32.1 | 36.4 | 39.3 |
| Tandem | 66.1 | 72.4 | 78.7 |
| Triple | 86.5 | 94.4 | 102.3 |
| Four or More | 94.4 | 103.9 | 113.3 |

Double Dolly Charts for Width (W) of Axle 18 to Less Than 19 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 33.3 | 37.9 | 40.9 |
| Tandem | 54.5 | 59.1 | 65.1 |
| Triple | 74.2 | 80.3 | 87.8 |
| Four or More | 78.7 | 86.3 | 93.9 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 33.3 | 37.9 | 40.9 |
| Tandem | 59.1 | 65.1 | 71.2 |
| Triple | 80.3 | 87.8 | 95.4 |
| Four or More | 86.3 | 93.9 | 103.0 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 33.3 | 37.9 | 40.9 |
| Tandem | 63.6 | 69.7 | 75.7 |
| Triple | 83.3 | 90.9 | 98.4 |
| Four or More | 90.9 | 99.9 | 109.9 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 33.3 | 37.9 | 40.9 |
| Tandem | 68.7 | 75.2 | 81.8 |
| Triple | 89.9 | 98.1 | 106.3 |
| Four or More | 98.1 | 107.9 | 117.7 |



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Double Dolly Charts for Width (W) of Axle 19 to Less Than 20 Feet

(D) Between Axle Groups 8 to 10 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 34.6 | 39.3 | 42.4 |
| Tandem | 56.6 | 61.3 | 67.6 |
| Triple | 77.0 | 83.3 | 91.1 |
| Four or More | 81.7 | 89.6 | 97.4 |

(D) Between Axle Groups 10 to 12 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 34.6 | 39.3 | 42.4 |
| Tandem | 61.3 | 67.6 | 73.9 |
| Triple | 83.3 | 91.1 | 99.0 |
| Four or More | 89.6 | 97.4 | 106.9 |

(D) Between Axle Groups 12 to 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 34.6 | 39.3 | 42.4 |
| Tandem | 66.0 | 72.3 | 78.6 |
| Triple | 86.4 | 94.3 | 102.2 |
| Four or More | 94.3 | 103.7 | 113.1 |

(D) Between Axle Groups More Than 14 feet

| Axle Groups | Orange | Yellow | No Color/ White |
|--------------|--------|--------|-----------------|
| Single | 34.6 | 39.3 | 42.4 |
| Tandem | 71.3 | 78.1 | 84.9 |
| Triple | 93.3 | 101.8 | 110.3 |
| Four or More | 101.8 | 112.0 | 122.1 |