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Secretary of State  
Certificate and Order for Filing  
**PERMANENT ADMINISTRATIVE RULES**

I certify that the attached copies\* are true, full and correct copies of the PERMANENT Rules(s) adopted on October 10, 2006 by the  
Date prior to or same as filing date.

Oregon Transportation Commission, Oregon Department of Transportation

734

Agency and Division

Administrative Rules Chapter Number

Brenda Trump 1905 Lana Avenue NE, Salem, OR 97314

(503) 945-5278

Rules Coordinator

Address

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to become effective

January 1, 2007

Date upon filing or later

Rulemaking Notice was published in the

September 2006

Month and Year

*Oregon Bulletin.\*\**

**RULE CAPTION**

Amendment of rules regarding warning flag size and weight table definitions.

Not more than 15 words that reasonably identify the subject matter of the agency's intended action.

**RULEMAKING ACTION**

List each rule number separately, 000-000-0000.

**ADOPT:** Secure approval of rule numbers with the Administrative Rules Unit prior to filing.

**AMEND:**

734-075-0045, 734-076-0135, 734-078-0030, 734-082-0005 & 734-082-0037

**REPEAL:**

**RENUMBER:** Secure approval of rule numbers with the Administrative Rules Unit prior to filing.

**AMEND & RENUMBER:** Secure approval of rule numbers with the Administrative Rules Unit prior to filing.

ORS 184.616, 184.619, 810.050, 810.060 & 818.200

Stats. Auth.

Other Authority

ORS 815.275, 816.290, 818.170, 818.200, 818.220 & 818.225

Stats. Implemented

**RULE SUMMARY**

ORS 815.275 requires warning flags for loads extending beyond the rear of the vehicle to be at least 12 inches square. Federal regulations (49 CFR 393.87) require warning flags for projecting loads to be at least 18 inches square. It is confusing for motor carriers to comply with differing regulations. Since federal and most other states require at least 18 inch square warning flags, Oregon is amending its rules to coincide.

Weight tables describe maximum allowable weight for an axle or group of axles. Weight tables 3, 4 & 5 are established by a "wheelbase formula" and are used to ensure weight does not exceed allowable limits. Maintaining legal weight limits enhances protection of Oregon's highways and bridges. The changes to Weight Table 4 and Weight Table 5 are necessary to facilitate a motor carriers ability to calculate axle weights and to obtain an overweight variance permit via Trucking Online, MCTD's internet based business application. The revised Weight Table 3 only includes formatting changes. The amendments do not create any new wheelbase formulas; rather they rearrange existing formulas to reflect current variance permitting practice.

Other non-substantive changes are made for housekeeping purposes and clarification.

Authorized Signer

Gregg Dal Ponte

Printed Name

10/18/06

Date

\* With this original, file one photocopy of certificate, one paper copy of rules listed in Rulemaking Actions, and electronic copy of rules.

\*\* The *Oregon Bulletin* is published on the 1st of each month and updates the rule text found in the Oregon Administrative Rules Compilation. Notice forms must be submitted to the Administrative Rules Unit, Oregon State Archives, 800 Summer Street NE, Salem, Oregon 97310 by 5:00 pm on the 15th day of the preceding month unless this deadline falls on a Saturday, Sunday or legal holiday when Notice forms are accepted until 5:00 pm on the preceding workday.

### **734-075-0045**

#### **Warning Signs and Flags Required**

- (1) Over-width loads or vehicles transporting over-width loads are required to display to the front and rear standard signs bearing the words "OVERSIZE LOAD":
    - (a) Signs must be seven feet wide by 18 inches high with black letters 10 inches high with 1-5/8 inch brush stroke in accordance with Federal Highway Administration series C on highway yellow background;
    - (b) The highway yellow background of the sign must be made of reflectorized material when operating between one half hour after sunset and one half hour before sunrise;
    - (c) Signs must be kept clean, legible and mounted horizontally with adequate support to provide full visibility at all times when in use;
    - (d) Signs may have a border with not more than 1-5/8 inch brush stroke around the edge of the sign;
    - (e) Signs must not cover or interfere with the visibility of the vehicle's registration plates; and
    - (f) All such signs must be removed or retracted when not required.
  - (2) All four lower corners of any over-width load must be marked during daylight hours with red flags that are a minimum 18 inches square. Flags must be kept clean and must be clearly visible to the front and rear. The attachment device must not extend beyond the widest extremity by more than three inches on either side.
- Stat. Auth.: ORS 184.616, ORS 814.619 & ORS 818.200  
Stats. Implemented: ORS 818.200 & ORS 818.220

### **734-076-0135**

#### **Warning Signs and Flags Required for Oversize Units**

- (1) Warning signs are required for dimensions exceeding:
  - (a) Eight feet, six inches in width;
  - (b) An overall length of 105 feet (inclusive of towing vehicle); or
  - (c) For a combination of vehicles being towed exceeding 80 feet in length (inclusive of load).
- (2) Warning signs must bear the legend "OVERSIZE LOAD" except:
  - (a) When the width exceeds eight feet, six inches and the combination of vehicles being towed does not exceed 80 feet in length (inclusive of load) or the overall combination length does not exceed 105 feet (inclusive of towing vehicle), the sign may bear the legend "WIDE LOAD"; or
  - (b) When the width does not exceed eight feet, six inches and when the combination of vehicles being towed exceeds 80 feet in length (inclusive of load) or the overall combination length exceeds 105 feet (inclusive of towing vehicle), the sign may bear the legend "LONG LOAD."
- (3) Warning signs must be displayed to the front and rear of the vehicle or combination and must meet the following requirements:
  - (a) Signs must be seven feet wide by 18 inches high with black letters 10 inches high with 1-5/8 inch brush stroke in accordance with Federal Highway Administration series C on highway yellow background;
  - (b) The highway yellow background of the sign must be made of reflectorized material when operating between one half hour after sunset and one half hour before sunrise;

- (c) Signs must be kept clean, legible and mounted horizontally with adequate support to provide full visibility and readability at all times when in use;
  - (d) Signs may have a border with not more than 1-5/8 inch brush stroke around the edge of the sign;
  - (e) Signs must not cover or interfere with the visibility of the vehicle's registration plates; and
  - (f) All such signs must be removed or retracted when not required.
- (4) The outermost extremities of any overwidth load must be marked during daylight hours with red flags not less than 18 inches square. Flags must be kept clean and must be clearly visible to the front and rear. The attachment device must not extend beyond the widest extremity by more than three inches on either side.
- Stat. Auth.: ORS 184.616 & ORS 184.619  
Stats. Implemented: ORS 818.170

### **734-078-0030**

#### **Warning Signs and Flags Required**

- (1) When the combinations of vehicles and load exceed 80 feet in overall length a "Long Load" or "Oversize Load" sign is required to be attached to the rearmost position practical, either on the load or the last vehicle:
- (a) The sign must be seven feet wide by 18 inches high with black letters 10 inches high and having a 1-5/8 inch wide brush stroke in accordance with Federal Highway Administration series C on highway yellow background;
  - (b) The highway yellow background of the sign must be made of reflectorized material when operating between sunset and sunrise;
  - (c) Signs must be kept clean, legible, and mounted with adequate support to provide full visibility at all times when in use;
  - (d) Signs may have a border with not more than 1-5/8 inch brush stroke around the edge of the sign;
  - (e) Signs must not cover or interfere with the visibility of the vehicle's registration plates;
  - (f) Signs must be constructed of a material impervious to water; and
  - (g) All signs must be removed or retracted when not required.
- (2) When a load extends beyond the rear body of the vehicle four feet or more, the outermost extremity of the load must be visibly marked with a red flag not less than 18 inches square. The attachment device must not extend beyond the rear of the load by more than three inches.
- Stat. Auth: ORS 184.616 & 184.619  
Stats. Implemented: ORS 818.220

### **734-082-0005**

#### **Definitions**

As used in OAR chapter 734, division 82:

- (1) "Auxiliary axle(s)" is an axle that qualifies as a booster axle, flip axle, or lift axle.
- (2) "Boom dolly" means a separate vehicle designed to carry part of the weight of a boom.
- (3) "Booster axle(s)" means a separate vehicle bolted or pinned to another vehicle that redistributes weight from one or more axles to other axles and pivots from side to side at the connection point or has wheels that steer during turning.

- (4) "Business day" is any day Monday through Friday, except holidays as defined in section (13) of this rule.
- (5) "Chief Engineer" means the Chief Engineer of the Oregon Department of Transportation or a person designated to act for the Chief Engineer.
- (6) "Daylight hours" means one-half hour before sunrise until one-half hour after sunset.
- (7) "Dolly" means those devices attached to a frame, deck or load converting the frame to a trailer or semitrailer and is included in the measurement of the trailer. The dolly must bear weight when the permitted vehicle is laden.
- (8) "Dromedary truck-tractor" means a motor vehicle designed to carry a load on a dromedary box, plate or deck, not exceeding 12'06" in length inclusive of load and designed to pull a semitrailer.
- (9) "Equivalent Single-Axle Load" (ESAL) means the relationship between actual or requested weight and an 18,000 pound single-axle load as determined by the American Association of State Highway and Transportation Officials Road Tests reported at the Proceedings Conference of 1962.
- (10) "Fire apparatus" means a vehicle or combination of vehicles designed and used exclusively for fire suppression or rescue operations. These emergency vehicles and associated loads or equipment are necessary to protect the public safety and are considered non-divisible loads.
- (11) "Flip axle(s)" means an axle that is bolted or pinned to a vehicle and flips from the closed position on the trailer to a deployed position on the ground extending the length or hauling capacity of the trailer.
- (12) "Gross Vehicle Weight Rating" (GVWR) means the gross vehicle weight rating as defined in ORS 801.298.
- (13) "Holiday" for the purposes of these rules means New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, and includes any other days on which the state officially observes the aforementioned holidays by the closure of State offices.
- (14) "Jeep axle(s)" means a separate vehicle connected to a motor vehicle by kingpin to fifth wheel connection. A jeep axle(s) must bear all or part of the weight of the load of another vehicle and must be connected to that other vehicle either by kingpin to fifth wheel connection or a pintle hook.
- (15) "Lift axle" means an axle that can be raised from or lowered to the surface of the ground.
- (16) "MCTD" means the Motor Carrier Transportation Division of the Oregon Department of Transportation.
- (17) "Motor truck" means a motor vehicle that is primarily designed or used for carrying loads other than passengers.
- (18) "Non-divisible load" means any load or vehicle exceeding applicable length or weight limits that, if separated into smaller loads or vehicles, would:
- (a) Compromise the intended use of the vehicle, i.e., make it unable to perform the function for which it was intended;
  - (b) Destroy the value of the load or vehicle, i.e., make it unusable for its intended purpose; or

(c) Require more than eight workhours to dismantle using appropriate equipment. The applicant for a non-divisible load permit has the burden of proof as to the number of workhours required to dismantle the load.

(19) "Passenger vehicle" or "light vehicle" means a motor vehicle, regardless of design or intended use.

(20) "Permit Weight Table 1" is the table of legal weight found in ORS 818.010.

(21) "Permit Weight Table 2" is the Extended Weight Table used for oversize loads that cannot be reduced in size, except as specified in OAR 734-082-0051 and 734-082-0053, and having authorized divisible load weights. Permit Weight Table 2 is available from MCTD as Form 735-8111 (February 2000).

(22) "Permit Weight Table 3" is a table based on two wheelbase weight formulas. The first formula is 1,000 times (the wheelbase in feet plus 40) for groups of axles or combinations of vehicles having 18 feet or less wheelbase. The second formula is 1,200 times (the wheelbase in feet plus 40) for groups of axles, vehicles or combinations of vehicles having more than 18 feet of wheelbase. Permit Weight Table 3 is available from MCTD as Form 735-8112 (July 2006).

(23) "Permit Weight Table 4" is a table based on three wheelbase weight formulas. The first formula is 1,200 times (the wheelbase in feet plus 40) for groups of axles or combinations of vehicles having nine feet five inches or less wheelbase. The second formula is 2,200 times (the wheelbase in feet plus 20) when wheelbase is more than nine feet five inches but is not more than 30 feet. The third formula is 1,600 times (the wheelbase in feet plus 40) when wheelbase is more than 30 feet. This table limits maximum weights to no more than 21,500 pounds per axle and 43,000 pounds per tandem axle. Permit Weight Table 4 is available from MCTD as Form 735-8113 (July 2006).

(24) "Permit Weight Table 5" is a table based on the same three formulas as Permit Weight Table 4, but describes maximum weights up to 24,000 pounds per axle and 48,000 pounds per tandem axle when the combination consists of a steering axle and four or more consecutive tandem axles. Permit Weight Table 5 is available from MCTD as Form 735-8114 (July 2006).

(25) Primary haul" means the non-divisible load transported under OAR 734-082-0053.

(26) "Road use assessment fee" means a fee for each ESAL mile of travel as established by ORS 818.225.

(27) "Secondary haul" means the divisible load transported under OAR 734-082-0053.

(28) "Self propelled fixed load vehicle" means a vehicle with motive power designed and used primarily to support and move a permanent load in the form of equipment or appliances constructed as part of, or permanently attached to, the body of the vehicle.

(29) "Stinger steered" is as defined in ORS 801.507.

(30) "Transport" means to tow, haul, drive, or otherwise move a vehicle or load on the State highway system.

(31) "Truck-tractor" means a motor vehicle designed and used primarily for drawing other vehicles and constructed so as not to carry any load other than a part of the weight of the vehicle or load, or both, as being drawn.

Stat. Auth.: ORS 184.616, 184.619, 810.050 & 810.060

Stats. Implemented: ORS 818.220 & 818.225

**734-082-0037**

**Warning Signs and Flags Required**

- (1) Vehicles transporting over-length or over-width loads are required to display to the front and rear standard signs bearing the words "OVERSIZE LOAD":
- (a) Signs must be seven feet wide by 18 inches high with black letters 10 inches high with 1-5/8 inch brush stroke in accordance with Federal Highway Administration series C on highway yellow background;
  - (b) The highway yellow background of the sign must be made of reflectorized material when operating between one half hour after sunset and one half hour before sunrise;
  - (c) Signs must be kept clean, legible and mounted horizontally with adequate support to provide full visibility at all times when in use;
  - (d) Signs may have a border with not more than 1-5/8 inch brush stroke around the edge of the sign;
  - (e) Signs must not cover or interfere with the visibility of the vehicle's registration plates. To meet this requirement, plates may be mounted to cover a portion of the sign's background, as long as the sign's legend remains readable; and
  - (f) All such signs must be removed or retracted when not required.
- (2) Warning signs for vehicles transporting loads which are overwidth and under 80 feet in overall length may bear the words "WIDE LOAD" provided the sign meets the standards described in section (1) of this rule.
- (3) Warning signs for vehicles transporting loads which are not over eight feet six inches wide may bear the words "LONG LOAD" when the vehicle and overhang are over 80 feet in overall length provided the sign meets the standards described in section (1) of this rule.
- (4) The outermost extremities of any overwidth load must be marked during daylight hours with red flags not less than 18 inches square. Flags must be kept clean and must be clearly visible to the front and rear. The attachment device must not extend beyond the widest extremity by more than three inches on either side.
- (5) When a load extends beyond the rear of the load carrying part of the vehicle four feet or more, the outermost extremity of the load must be visibly marked as described in ORS 815.275. When a red flag or cloth is used, it must be not less than 18 inches square, kept clean and must be clearly visible. The attachment device must not extend beyond the rear of the load more than three inches.

Stat. Auth.: ORS 184.616 & ORS 184.619

Stats. Implemented: ORS 815.275, 816.290, 818.220 & 818.225



# Permit Weight Table 3

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles or more
4	43,000									
5	43,000									
6	43,000									
7	43,000									
8	43,000									
OVER 8' (BUT LESS THAN 8'6")										
	43,000	48,000								
9	43,000	49,000								
10	43,000	50,000								
11	43,000	51,000								
12	43,000	52,000								
13	43,000	53,000								
14	43,000	54,000								
15	43,000	55,000								
16	43,000	56,000								
17	43,000	57,000								
18	43,000	58,000								
19	43,000	64,500	70,800							
20	43,000	64,500	72,000							
21	43,000	64,500	73,200							
22	43,000	64,500	74,400							
23	43,000	64,500	75,600							
24	43,000	64,500	76,800							
25	43,000	64,500	78,000							
26	43,000	64,500	79,200							
27	43,000	64,500	80,400							
28	43,000	64,500	81,600							
29	43,000	64,500	82,800							
30	43,000	64,500	84,000							
31	43,000	64,500	85,200							
32	43,000	64,500	86,000	86,400						
33	43,000	64,500	86,000	87,600						
34	43,000	64,500	86,000	88,800						
35	43,000	64,500	86,000	90,000						
36	43,000	64,500	86,000	91,200						
37	43,000	64,500	86,000	92,400						
38	43,000	64,500	86,000	93,600						
39	43,000	64,500	86,000	94,800						
40	43,000	64,500	86,000	96,000						
41	43,000	64,500	86,000	97,200						
42	43,000	64,500	86,000	98,400						
43	43,000	64,500	86,000	99,600						
44	43,000	64,500	86,000	100,800						
45	43,000	64,500	86,000	102,000						
46	43,000	64,500	86,000	103,200						
47	43,000	64,500	86,000	104,400						
48	43,000	64,500	86,000	105,600						
49	43,000	64,500	86,000	106,800						
50	43,000	64,500	86,000	107,500	108,000					
51	43,000	64,500	86,000	107,500	109,200					
52	43,000	64,500	86,000	107,500	110,400					
53	43,000	64,500	86,000	107,500	111,600					
54	43,000	64,500	86,000	107,500	112,800					
55	43,000	64,500	86,000	107,500	114,000					
56	43,000	64,500	86,000	107,500	115,200					
57	43,000	64,500	86,000	107,500	116,400					
58	43,000	64,500	86,000	107,500	117,600					
59	43,000	64,500	86,000	107,500	118,800					
60	43,000	64,500	86,000	107,500	120,000					
61	43,000	64,500	86,000	107,500	121,200					
62	43,000	64,500	86,000	107,500	122,400					
63	43,000	64,500	86,000	107,500	123,600					
64	43,000	64,500	86,000	107,500	124,800					
65	43,000	64,500	86,000	107,500	126,000					
66	43,000	64,500	86,000	107,500	127,200					
67	43,000	64,500	86,000	107,500	128,400					
68	43,000	64,500	86,000	107,500	129,000	129,600				
69	43,000	64,500	86,000	107,500	129,000	130,800				
70	43,000	64,500	86,000	107,500	129,000	132,000				
71	43,000	64,500	86,000	107,500	129,000	133,200				
72	43,000	64,500	86,000	107,500	129,000	134,400				
73	43,000	64,500	86,000	107,500	129,000	135,600				
74	43,000	64,500	86,000	107,500	129,000	136,800				
75	43,000	64,500	86,000	107,500	129,000	138,000				

The loaded weight of a group of axles, vehicles, or combination of vehicles shall not exceed that specified in this permit weight table or any of the following:

The manufacturer's side wall tire rating, but not to exceed 600 pounds per inch of tire width;

21,500 pounds per single axle;

43,000 pounds per tandem axle;

The weight shown on the permit; and

The sum of the permissible axle, tandem axle, or group axle weight, whichever is less;

Or except as described in OAR 734-082-0010 (2).

## Formulas applied:

1,000 times (the wheelbase in feet plus 40) when wheelbase is 18 feet or less

1,200 times (the wheelbase in feet plus 40) when wheelbase is more than 18 feet

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles or more
76	43,000	64,500	86,000	107,500	129,000	139,200				
77	43,000	64,500	86,000	107,500	129,000	140,400				
78	43,000	64,500	86,000	107,500	129,000	141,600				
79	43,000	64,500	86,000	107,500	129,000	142,800				
80	43,000	64,500	86,000	107,500	129,000	144,000				
81	43,000	64,500	86,000	107,500	129,000	145,200				
82	43,000	64,500	86,000	107,500	129,000	146,400				
83	43,000	64,500	86,000	107,500	129,000	147,600				
84	43,000	64,500	86,000	107,500	129,000	148,800				
85	43,000	64,500	86,000	107,500	129,000	150,000				
86	43,000	64,500	86,000	107,500	129,000	150,500	151,200			
87	43,000	64,500	86,000	107,500	129,000	150,500	152,400			
88	43,000	64,500	86,000	107,500	129,000	150,500	153,600			
89	43,000	64,500	86,000	107,500	129,000	150,500	154,800			
90	43,000	64,500	86,000	107,500	129,000	150,500	156,000			
91	43,000	64,500	86,000	107,500	129,000	150,500	157,200			
92	43,000	64,500	86,000	107,500	129,000	150,500	158,400			
93	43,000	64,500	86,000	107,500	129,000	150,500	159,600			
94	43,000	64,500	86,000	107,500	129,000	150,500	160,800			
95	43,000	64,500	86,000	107,500	129,000	150,500	162,000			
96	43,000	64,500	86,000	107,500	129,000	150,500	163,200			
97	43,000	64,500	86,000	107,500	129,000	150,500	164,400			
98	43,000	64,500	86,000	107,500	129,000	150,500	165,600			
99	43,000	64,500	86,000	107,500	129,000	150,500	166,800			
100	43,000	64,500	86,000	107,500	129,000	150,500	168,000			
101	43,000	64,500	86,000	107,500	129,000	150,500	169,200			
102	43,000	64,500	86,000	107,500	129,000	150,500	170,400			
103	43,000	64,500	86,000	107,500	129,000	150,500	171,600			
104	43,000	64,500	86,000	107,500	129,000	150,500	172,000	172,800		
105	43,000	64,500	86,000	107,500	129,000	150,500	172,000	174,000		
106	43,000	64,500	86,000	107,500	129,000	150,500	172,000	175,200		
107	43,000	64,500	86,000	107,500	129,000	150,500	172,000	176,400		
108	43,000	64,500	86,000	107,500	129,000	150,500	172,000	177,600		
109	43,000	64,500	86,000	107,500	129,000	150,500	172,000	178,800		
110	43,000	64,500	86,000	107,500	129,000	150,500	172,000	180,000		
111	43,000	64,500	86,000	107,500	129,000	150,500	172,000	181,200		
112	43,000	64,500	86,000	107,500	129,000	150,500	172,000	182,400		
113	43,000	64,500	86,000	107,500	129,000	150,500	172,000	183,600		
114	43,000	64,500	86,000	107,500	129,000	150,500	172,000	184,800		
115	43,000	64,500	86,000	107,500	129,000	150,500	172,000	186,000		
116	43,000	64,500	86,000	107,500	129,000	150,500	172,000	187,200		
117	43,000	64,500	86,000	107,500	129,000	150,500	172,000	188,400		
118	43,000	64,500	86,000	107,500	129,000	150,500	172,000	189,600		
119	43,000	64,500	86,000	107,500	129,000	150,500	172,000	190,800		
120	43,000	64,500	86,000	107,500	129,000	150,500	172,000	192,000		
121	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,200		
122	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	194,400	
123	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	195,600	
124	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	196,800	
125	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	198,000	
126	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	199,200	
127	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	200,400	
128	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	201,600	
129	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	202,800	
130	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	204,000	
131	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	205,200	
132	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	206,400	
133	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	207,600	
134	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	208,800	
135	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	210,000	
136	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	211,200	
137	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	212,400	
138	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	213,600	
139	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	214,800	
140	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	216,000
141	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	217,200
142	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	218,400
143	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	219,600
144	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	220,800
145	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	222,000
146	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	223,200
147	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	224,400
148	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	225,600
149	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	226,800
150	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	228,000

Distance measured to the nearest foot; when exactly 1/2 foot or more, round up to the next larger number.

PERMIT WEIGHT TABLE 3 - PAGE 2





# Permit Weight Table 4

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles	12 Axles	13 Axles	14 Axles	15 Axles or more
4	43,000													
5	43,000													
6	43,000													
7	43,000													
8	43,000													
OVER 8' (BUT LESS THAN 8'6")														
9	43,000	57,600												
10	43,000	58,800												
11	43,000	64,500	65,000											
12	43,000	64,500	68,200											
13	43,000	64,500	70,400											
14	43,000	64,500	72,600											
15	43,000	64,500	74,800											
16	43,000	64,500	77,000											
17	43,000	64,500	79,200											
18	43,000	64,500	81,400											
19	43,000	64,500	83,600											
20	43,000	64,500	85,800											
21	43,000	64,500	88,000	88,000										
22	43,000	64,500	90,200	90,200										
23	43,000	64,500	92,400	92,400										
24	43,000	64,500	94,600	94,600										
25	43,000	64,500	96,800	96,800										
26	43,000	64,500	99,000	99,000										
27	43,000	64,500	101,200	101,200										
28	43,000	64,500	103,400	103,400										
29	43,000	64,500	105,600	105,600										
30	43,000	64,500	107,800	107,800										
31	43,000	64,500	110,000	110,000										
32	43,000	64,500	112,200	112,200										
33	43,000	64,500	114,400	114,400										
34	43,000	64,500	116,600	116,600										
35	43,000	64,500	118,800	118,800										
36	43,000	64,500	121,000	121,000										
37	43,000	64,500	123,200	123,200										
38	43,000	64,500	125,400	125,400										
39	43,000	64,500	127,600	127,600										
40	43,000	64,500	129,800	129,800										
41	43,000	64,500	132,000	132,000										
42	43,000	64,500	134,200	134,200										
43	43,000	64,500	136,400	136,400										
44	43,000	64,500	138,600	138,600										
45	43,000	64,500	140,800	140,800										
46	43,000	64,500	143,000	143,000										
47	43,000	64,500	145,200	145,200										
48	43,000	64,500	147,400	147,400										
49	43,000	64,500	149,600	149,600										
50	43,000	64,500	151,800	151,800										
51	43,000	64,500	154,000	154,000										
52	43,000	64,500	156,200	156,200										
53	43,000	64,500	158,400	158,400										
54	43,000	64,500	160,600	160,600										
55	43,000	64,500	162,800	162,800										
56	43,000	64,500	165,000	165,000										
57	43,000	64,500	167,200	167,200										
58	43,000	64,500	169,400	169,400										
59	43,000	64,500	171,600	171,600										
60	43,000	64,500	173,800	173,800										
61	43,000	64,500	176,000	176,000										
62	43,000	64,500	178,200	178,200										
63	43,000	64,500	180,400	180,400										
64	43,000	64,500	182,600	182,600										
65	43,000	64,500	184,800	184,800										
66	43,000	64,500	187,000	187,000										
67	43,000	64,500	189,200	189,200										
68	43,000	64,500	191,400	191,400										
69	43,000	64,500	193,600	193,600										
70	43,000	64,500	195,800	195,800										
71	43,000	64,500	198,000	198,000										
72	43,000	64,500	200,200	200,200										
73	43,000	64,500	202,400	202,400										
74	43,000	64,500	204,600	204,600										
75	43,000	64,500	206,800	206,800										

The loaded weight of a group of axles, vehicles, or combination of vehicles shall not exceed that specified in this permit weight table or any of the following:

The manufacturer's side wall tire rating but not to exceed 600 pounds per inch of tire width.

21,500 pounds per single axle.

43,000 pounds per tandem axle.

The weight shown on the permit, and

The sum of the permissible axle, tandem axle, or group axle weight, whichever is less.

Or except as described in OAR 734-082-0010 (2)

For weights beyond 15 axles and 150 feet of wheelbase, apply the following formula:

1,600 times (the wheelbase in feet plus 40) when wheelbase is more than 30 feet.

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles	12 Axles	13 Axles	14 Axles	15 Axles or more
76	43,000	64,500	86,000	107,500	129,000	150,500	172,000	185,600						
77	43,000	64,500	86,000	107,500	129,000	150,500	172,000	187,200						
78	43,000	64,500	86,000	107,500	129,000	150,500	172,000	188,800						
79	43,000	64,500	86,000	107,500	129,000	150,500	172,000	190,400						
80	43,000	64,500	86,000	107,500	129,000	150,500	172,000	192,000						
81	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	193,600					
82	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	195,200					
83	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	196,800					
84	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	198,400					
85	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	200,000					
86	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	201,600					
87	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	203,200					
88	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	204,800					
89	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	206,400					
90	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	208,000					
91	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	209,600					
92	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	211,200					
93	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	212,800					
94	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	214,400					
95	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	216,000				
96	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	217,600				
97	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	219,200				
98	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	220,800				
99	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	222,400				
100	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	224,000				
101	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	225,600				
102	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	227,200				
103	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	228,800				
104	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	230,400				
105	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	232,000				
106	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	233,600				
107	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	235,200				
108	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	236,800			
109	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	238,400			
110	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	240,000			
111	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	241,600			
112	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	243,200			
113	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	244,800			
114	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	246,400			
115	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	248,000			
116	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	249,600			
117	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	251,200			
118	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	252,800			
119	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	254,400			
120	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	256,000			
121	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	257,600			
122	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	259,200		
123	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	260,800		
124	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	262,400		
125	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	264,000		
126	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	265,600		
127	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	267,200		
128	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	268,800		
129	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	270,400		
130	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	272,000		
131	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	273,600		
132	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	275,200		
133	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	276,800		
134	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	278,400		
135	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	280,000	
136	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	281,600	
137	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	283,200	
138	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	284,800	
139	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	286,400	
140	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	288,000	
141	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	289,600	
142	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	291,200	
143	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	292,800	
144	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	294,400	
145	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	296,000	
146	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	297,600	
147	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	299,200	
148	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	300,800	
149	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	301,000	302,400
150	43,000	64,500	86,000	107,500	129,000	150,500	172,000	193,500	215,000	236,500	258,000	279,500	301,000	304,000

Distance measured to the nearest foot; when exactly 1/2 foot or more, round up to the next larger number.



# Permit Weight Table 5

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles	12 Axles	13 Axles or more
4	48,000											
5	48,000											
6	48,000											
7	48,000											
8	48,000											
OVER 8' (BUT LESS THAN 8'6")												
9	48,000	57,800										
10	48,000	58,800										
11	48,000	65,000										
12	48,000	68,200										
13	48,000	70,400										
14	48,000	72,000	72,600									
15	48,000	72,000	74,800									
16	48,000	72,000	77,000									
17	48,000	72,000	79,200									
18	48,000	72,000	81,400									
19	48,000	72,000	83,600									
20	48,000	72,000	85,800									
21	48,000	72,000	88,000									
22	48,000	72,000	90,200									
23	48,000	72,000	92,400									
24	48,000	72,000	94,600									
25	48,000	72,000	96,800	96,800								
26	48,000	72,000	96,000	99,000								
27	48,000	72,000	96,000	101,200								
28	48,000	72,000	96,000	103,400								
29	48,000	72,000	96,000	105,600								
30	48,000	72,000	96,000	107,800								
31	48,000	72,000	96,000	110,000								
32	48,000	72,000	96,000	113,600								
33	48,000	72,000	96,000	116,800								
34	48,000	72,000	96,000	120,000								
35	48,000	72,000	96,000	121,600								
36	48,000	72,000	96,000	123,200								
37	48,000	72,000	96,000	124,800								
38	48,000	72,000	96,000	126,400								
39	48,000	72,000	96,000	128,000								
40	48,000	72,000	96,000	129,600								
41	48,000	72,000	96,000	131,200								
42	48,000	72,000	96,000	132,800								
43	48,000	72,000	96,000	134,400								
44	48,000	72,000	96,000	136,000								
45	48,000	72,000	96,000	137,600								
46	48,000	72,000	96,000	139,200								
47	48,000	72,000	96,000	140,800								
48	48,000	72,000	96,000	142,400								
49	48,000	72,000	96,000	144,000								
50	48,000	72,000	96,000	144,000	145,600							
51	48,000	72,000	96,000	144,000	147,200							
52	48,000	72,000	96,000	144,000	148,800							
53	48,000	72,000	96,000	144,000	150,400							
54	48,000	72,000	96,000	144,000	152,000							
55	48,000	72,000	96,000	144,000	153,600							
56	48,000	72,000	96,000	144,000	155,200							
57	48,000	72,000	96,000	144,000	156,800							
58	48,000	72,000	96,000	144,000	158,400							
59	48,000	72,000	96,000	144,000	160,000							
60	48,000	72,000	96,000	144,000	161,600							
61	48,000	72,000	96,000	144,000	163,200							
62	48,000	72,000	96,000	144,000	164,800							
63	48,000	72,000	96,000	144,000	166,400							
64	48,000	72,000	96,000	144,000	168,000							
65	48,000	72,000	96,000	144,000	169,600							
66	48,000	72,000	96,000	144,000	171,200							
67	48,000	72,000	96,000	144,000	172,800							
68	48,000	72,000	96,000	144,000	174,400							
69	48,000	72,000	96,000	144,000	176,000							
70	48,000	72,000	96,000	144,000	177,600							
71	48,000	72,000	96,000	144,000	179,200							
72	48,000	72,000	96,000	144,000	180,800							
73	48,000	72,000	96,000	144,000	182,400							
74	48,000	72,000	96,000	144,000	184,000							
75	48,000	72,000	96,000	144,000	184,000							

The loaded weight of a group of axles, vehicle, or combination of vehicles shall not exceed that specified in this permit weight table or any of the following:

Subject to special routing and analysis by the Department of Transportation, single trip permits may be issued for combinations of vehicles having a steering axle followed by four or more consecutive tandem axles, provided the weight does not exceed:

The manufacturer's side wall tire rating or 600 pounds per inch of tire width, whichever is less; 24,000 pounds per single axle; 48,000 pounds per tandem axle;

The weight shown on the permit, and The sum of the permissible axle, tandem axle, or group axle weight, whichever is less; Or except as described in OAR 734-082-0010 (2)



EXAMPLE (AS STATED ABOVE)

For weights beyond 15 axles and 150 feet of wheelbase, apply the following formula:

1,600 times (the wheelbase in feet plus 40) when wheelbase is more than 30 feet.

WHEEL BASE	2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles	10 Axles	11 Axles	12 Axles	13 Axles or more
76	48,000	72,000	96,000	120,000	144,000	168,000	185,600					
77	48,000	72,000	96,000	120,000	144,000	168,000	187,200					
78	48,000	72,000	96,000	120,000	144,000	168,000	188,800					
79	48,000	72,000	96,000	120,000	144,000	168,000	190,400					
80	48,000	72,000	96,000	120,000	144,000	168,000	192,000					
81	48,000	72,000	96,000	120,000	144,000	168,000	192,000	193,600				
82	48,000	72,000	96,000	120,000	144,000	168,000	192,000	195,200				
83	48,000	72,000	96,000	120,000	144,000	168,000	192,000	196,800				
84	48,000	72,000	96,000	120,000	144,000	168,000	192,000	198,400				
85	48,000	72,000	96,000	120,000	144,000	168,000	192,000	200,000				
86	48,000	72,000	96,000	120,000	144,000	168,000	192,000	201,600				
87	48,000	72,000	96,000	120,000	144,000	168,000	192,000	203,200				
88	48,000	72,000	96,000	120,000	144,000	168,000	192,000	204,800				
89	48,000	72,000	96,000	120,000	144,000	168,000	192,000	206,400				
90	48,000	72,000	96,000	120,000	144,000	168,000	192,000	208,000				
91	48,000	72,000	96,000	120,000	144,000	168,000	192,000	209,600				
92	48,000	72,000	96,000	120,000	144,000	168,000	192,000	211,200				
93	48,000	72,000	96,000	120,000	144,000	168,000	192,000	212,800				
94	48,000	72,000	96,000	120,000	144,000	168,000	192,000	214,400				
95	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000				
96	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	217,600			
97	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	219,200			
98	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	220,800			
99	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	222,400			
100	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	224,000			
101	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	225,600			
102	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	227,200			
103	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	228,800			
104	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	230,400			
105	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	232,000			
106	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	233,600			
107	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	235,200			
108	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	236,800			
109	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	238,400			
110	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000			
111	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	241,600		
112	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	243,200		
113	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	244,800		
114	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	246,400		
115	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	248,000		
116	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	249,600		
117	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	251,200		
118	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	252,800		
119	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	254,400		
120	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	256,000		
121	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	257,600		
122	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	259,200		
123	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	260,800		
124	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	262,400		
125	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000		
126	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	265,600	
127	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	267,200	
128	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	268,800	
129	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	270,400	
130	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	272,000	
131	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	273,600	
132	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	275,200	
133	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	276,800	
134	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	278,400	
135	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	280,000	
136	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	281,600	
137	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	283,200	
138	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	284,800	
139	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	286,400	
140	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	
141	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	289,600
142	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	291,200
143	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	292,800
144	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	294,400
145	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	296,000
146	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	297,600
147	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	299,200
148	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	300,800
149	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	302,400
150	48,000	72,000	96,000	120,000	144,000	168,000	192,000	216,000	240,000	264,000	288,000	304,000

Distance measured to the nearest foot; when exactly 1/2 foot or more, round up to the next larger number.