

# BRIDGE FORMULA CHART FOR GROSS VEHICLE WEIGHTS

11/01/00

WB/Axles	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Axles/WB	
14	46500	51500	57000												14	
15	47500	52000	57500	<b>Department of Transportation &amp; Public Facilities Regulations</b>												15
16	48000	52500	58000				17 AAC 25 013	Legal vehicle weight							16	
17	49000	53500	58500				17 AAC 25 017	Supplemental axles							17	
18	49500	54000	59500				17 AAC 25 100	Road closures and restrictions							18	
19	50500	54500	60000				17 AAC 25 900	Definitions							19	
20	51000	55500	60500												20	
21	52000	56000	61000	Metric tire size can be converted to inches by multiplying by .0394												21
22	52500	56500	62000	i.e. 255/70R22 5 = 255 mm X .0394 inches/mm = 10 inches												22
23	53500	57500	62500												23	
24	54000	58000	63000	8'1" is the minimum spacing between axle groups. Axles spaced less than 8'1" apart are considered acting as one group.												24
25	55000	58500	63500												25	
26	55500	59500	64500												26	
27	56500	60000	65000	For axle configurations not on this chart the gross vehicle weight may be determined by the following BRIDGE FORMULA:												27
28	57000	60500	65500												28	
29	58000	61500	66000												29	
30	58500	62000	67000	72000	Gross vehicle weight = $500 \frac{[(WB \times N) + (12 \times N) + 36]}{N - 1}$											30
31	59500	62500	67500	72500												31
32	60000	63500	68000	73000												32
33		64000	68500	74000	WB = Wheelbase as measured from the center of the steering axle to the center of the last axle in feet. Inches are rounded up to the next whole foot.											33
34		64500	69500	74500	N = Total number of axles.											34
35		65500	70000	75000												35
36		66000	70500	75500												36
37		66500	71000	76000	For configurations with no lift axle(s) in the drive group, an additional 3,000 pounds is added to the gross vehicle weights as determined by the bridge formula or chart.											37
38		67500	72000	77000	Legal gross vehicle is always the most restrictive of the bridge formula and the gross weight as determined by axle weights or by tires.											38
39		68000	72500	77500												39
40		68500	73000	78000												40
41		69500	73500	78500												41
42		70000	74500	79000	Lift axle(s) in the drive group of the power unit are not counted in determining the legal maximum allowable weight.											42
43		70500	75000	80000												43
44		71500	75500	80500												44
45		72000	76000	81000	86500	91500	<b>MAXIMUM HIGHWAY SPEEDS</b>									45
46		72500	77000	81500	87000	92500	<u>% Over Legal</u>			<u>Maximum Speed</u>			46			
47		73500	77500	82000	87500	93000	Up to 125%			Posted Speed			47			
48		74000	78000	83000	88000	93500	126 - 140%			45 MPH			48			
49		74500	78500	83500	88500	94000	141 - 155%			40 MPH			49			
50		75500	79500	84000	89000	94500	156 - 170%			35 MPH			50			
51			80000	84500	90000	95000	171 - 185%			30 MPH			51			
52			80500	85000	90500	95500	186 - 200%			25 MPH			52			
53			81000	86000	91000	96500	Over 201%			20 MPH			53			
54			82000	86500	91500	97000										54
55			82500	87000	92000	97500	<b>AXLE WEIGHTS AND TIRE LOADINGS MUST ALSO BE CONSIDERED</b>									55
56			83000	87500	92500	98000	Steering axle(s) = no. of tire width (inches) X 600 pounds/inch									56
57			83500	88000	93500	98500	All other axles = no. of tires X tire width(inches) X 550 pounds/inch									57
58			84500	89000	94000	99000										58
59			85000	89500	94500	99500										59
60			85500	90000	95000	100500	106000	111500	117000	Single axles = 20,000 pounds maximum						60
61			86000	90500	95500	101000	106500	112000	117500	2 Axle group = 38,000 pounds maximum						61
62			87000	91000	96000	101500	107000	112500	118000	3 Axle group = 42,000 pounds maximum						62
63			87500	92000	97000	102000	107500	113000	118500	4 Axle group = 50,000 pounds maximum						63
64			88000	92500	97500	102500	108000	113500	119000	5 Axle group = 58,000 pounds maximum						64
65			88500	93000	98000	103000	108500	114000	120000	6 Axle group = 66,000 pounds maximum						65
66			89500	93500	98500	103500	109000	114500	120500							66
67			90000	94000	99000	104500	109500	115000	121000							67
68			90500	95000	99500	105000	110500	116000	121500	<b>Tire loadings over 700 pounds per inch reduce highway speed 5 MPH.</b>						68
69			91000	95500	100500	105500	111000	116500	122000							69
70			92000	96000	101000	106000	111500	117000	122500							70
71			92500	96500	101500	106500	112000	117500	123000							71
72			93000	97000	102000	107000	112500	118000	123500	129500	135000	141000	146500	152500	72	
73			93500	98000	102500	107500	113000	118500	124000	130000	135500	141500	147000	153000	73	
74			94500	98500	103000	108500	113500	119000	124500	130500	136000	142000	147500	153500	74	
75			95000	99000	104000	109000	114000	119500	125500	131000	136500	142500	148000	154000	75	
76				99500	104500	109500	115000	120000	126000	131500	137000	143000	148500	154500	76	
77				100000	105000	110000	115500	121000	126500	132000	137500	143500	149500	155000	77	
78				101000	105500	110500	116000	121500	127000	132500	138500	144000	150000	155500	78	
79				101500	106000	111000	116500	122000	127500	133000	139000	144500	150500	156000	79	
80				102000	106500	111500	117000	122500	128000	133500	139500	145000	151000	156500	80	
81				102500	107500	112500	117500	123000	128500	134000	140000	145500	151500	157000	81	
82				103000	108000	113000	118000	123500	129000	134500	140500	146000	152000	157500	82	
83				104000	108500	113500	118500	124000	129500	135500	141000	146500	152500	158500	83	

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84				104500	109000	114000	119500	124500	130000	136000	141500	147000	153000	159000	84
85				105000	109500	114500	120000	125000	131000	136500	142000	148000	153500	159500	85
86				105500	110000	115000	120500	126000	131500	137000	142500	148500	154000	160000	86
87				106000	111000	115500	121000	126500	132000	137500	143000	149000	154500	160500	87
88				107000	111500	116500	121500	127000	132500	138000	143500	149500	155000	161000	88
89				107500	112000	117000	122000	127500	133000	138500	144000	150000	155500	161500	89
90				108000	112500	117500	122500	128000	133500	139000	145000	150500	156000	162000	90
91				108500	113000	118000	123000	128500	134000	139500	145500	151000	157000	162500	91
92				109000	113500	118500	124000	129000	134500	140000	146000	151500	157500	163000	92
93				110000	114500	119000	124500	129500	135000	140500	146500	152000	158000	163500	93
94				110500	115000	119500	125000	130000	135500	141500	147000	152500	158500	164000	94
95				111000	115500	120500	125500	131000	136500	142000	147500	153000	159000	164500	95
96				111500	116000	121000	126000	131500	137000	142500	148000	153500	159500	165000	96
97				112000	116500	121500	126500	132000	137500	143000	148500	154000	160000	165500	97
98				113000	117000	122000	127000	132500	138000	143500	149000	155000	160500	166500	98
99				113500	118000	122500	127500	133000	138500	144000	149500	155500	161000	167000	99
100				114000	118500	123000	128000	133500	139000	144500	150000	156000	161500	167500	100
101				114500	119000	123500	129000	134000	139500	145000	150500	156500	162000	168000	101
102				115000	119500	124500	129500	134500	140000	145500	151500	157000	162500	168500	102
103				116000	120000	125000	130000	135000	140500	146000	152000	157500	163000	169000	103
104				116500	120500	125500	130500	136000	141000	146500	152500	158000	163500	169500	104
105				117000	121500	126000	131000	136500	142000	147500	153000	158500	164500	170000	105
106				117500	122000	126500	131500	137000	142500	148000	153500	159000	165000	170500	106
107				118000	122500	127000	132000	137500	143000	148500	154000	159500	165500	171000	107
108				119000	123000	127500	133000	138000	143500	149000	154500	160000	166000	171500	108
109				119500	123500	128500	133500	138500	144000	149500	155000	160500	166500	172000	109
110				120000	124000	129000	134000	139000	144500	150000	155500	161000	167000	172500	110
111				120500	125000	129500	134500	139500	145000	150500	156000	162000	167500	173000	111
112				121000	125500	130000	135000	140000	145500	151000	156500	162500	168000	173500	112
113				122000	126000	130500	135500	141000	146000	151500	157000	163000	168500	174500	113
114				122500	126500	131000	136000	141500	146500	152000	158000	163500	169000	175000	114
115				123000	127000	131500	136500	142000	147500	152500	158500	164000	169500	175500	115
116				123500	127500	132500	137500	142500	148000	153500	159000	164500	170000	176000	116
117				124000	128500	133000	138000	143000	148500	154000	159500	165000	170500	176500	117
118				125000	129000	133500	138500	143500	149000	154500	160000	165500	171000	177000	118
119				125500	129500	134000	139000	144000	149500	155000	160500	166000	172000	177500	119
120				126000	130000	134500	139500	144500	150000	155500	161000	166500	172500	178000	120
121				126500	130500	135000	140000	145000	150500	156000	161500	167000	173000	178500	121
122				127000	131000	135500	140500	146000	151000	156500	162000	167500	173500	179000	122
123				128000	132000	136500	141000	146500	151500	157000	162500	168000	174000	179500	123
124				128500	132500	137000	142000	147000	152000	157500	163000	169000	174500	180000	124
125				129000	133000	137500	142500	147500	153000	158000	163500	169500	175000	180500	125
126				129500	133500	138000	143000	148000	153500	158500	164500	170000	175500	181000	126
127				130000	134000	138500	143500	148500	154000	159500	165000	170500	176000	181500	127
128				131000	134500	139000	144000	149000	154500	160000	165500	171000	176500	182500	128
129				131500	135500	139500	144500	149500	155000	160500	166000	171500	177000	183000	129
130				132000	136000	140500	145000	150000	155500	161000	166500	172000	177500	183500	130
131				132500	136500	141000	145500	151000	156000	161500	167000	172500	178000	184000	131
132				133000	137000	141500	146500	151500	156500	162000	167500	173000	178500	184500	132
133				134000	137500	142000	147000	152000	157000	162500	168000	173500	179500	185000	133
134				134500	138000	142500	147500	152500	157500	163000	168500	174000	180000	185500	134
135				135000	139000	143000	148000	153000	158500	163500	169000	174500	180500	186000	135
136				135500	139500	143500	148500	153500	159000	164000	169500	175000	181000	186500	136
137				136000	140000	144500	149000	154000	159500	164500	170000	176000	181500	187000	137
138				137000	140500	145000	149500	154500	160000	165500	171000	176500	182000	187500	138
139				137500	141000	145500	150000	155000	160500	166000	171500	177000	182500	188000	139
140				138000	141500	146000	151000	156000	161000	166500	172000	177500	183000	188500	140
141				138500	142500	146500	151500	156500	161500	167000	172500	178000	183500	189000	141
142				139000	143000	147000	152000	157000	162000	167500	173000	178500	184000	189500	142
143				140000	143500	147500	152500	157500	162500	168000	173500	179000	184500	190500	143
144				140500	144000	148500	153000	158000	163000	168500	174000	179500	185000	191000	144
145				141000	144500	149000	153500	158500	164000	169000	174500	180000	185500	191500	145
146				141500	145000	149500	154000	159000	164500	169500	175000	180500	186000	192000	146
147				142000	146000	150000	154500	159500	165000	170000	175500	181000	187000	192500	147
148				143000	146500	150500	155500	160000	165500	170500	176000	181500	187500	193000	148
149				143500	147000	151000	156000	161000	166000	171500	176500	182000	188000	193500	149
150				144000	147500	151500	156500	161500	166500	172000	177500	183000	188500	194000	150