

BRIDGE FORMULA CHART FOR GROSS VEHICLE WEIGHTS

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												15
16	48000	52500	58000												16
17	49000	53500	58500												17
18	49500	54000	59500												18
19	50500	54500	60000												19
20	51000	55500	60500												20
21	52000	56000	61000												21
22	52500	56500	62000												22
23	53500	57500	62500												23
24	54000	58000	63000												24
25	55000	58500	63500												25
26	55500	59500	64500												26
27	56500	60000	65000												27
28	57000	60500	65500												28
29	58000	61500	66000	69500											29
30	58500	62000	67000	72000											30
31	59500	62500	67500	72500											31
32	60000	63500	68000	73000											32
33		64000	68500	74000											33
34		64500	69500	74500											34
35		65500	70000	75000											35
36		66000	70500	75500											36
37		66500	71000	76000											37
38		67500	72000	77000											38
39		68000	72500	77500											39
40		68500	73000	78000											40
41		69500	73500	78500											41
42		70000	74500	79000											42
43		70500	75000	80000											43
44		71500	75500	80500											44
45		72000	76000	81000	86500	91500									45
46		72500	77000	81500	87000	92500									46
47		73500	77500	82000	87500	93000									47
48		74000	78000	83000	88000	93500									48
49		74500	78500	83500	88500	94000									49
50		75500	79500	84000	89000	94500									50
51			80000	84500	90000	95000									51
52			80500	85000	90500	95500									52
53			81000	86000	91000	96500									53
54			82000	86500	91500	97000									54
55			82500	87000	92000	97500									55
56			83000	87500	92500	98000									56
57			83500	88000	93500	98500									57
58			84500	89000	94000	99000									58
59			85000	89500	94500	99500									59
60			85500	90000	95000	100500	106000	111500	117000						60
61			86000	90500	95500	101000	106500	112000	117500						61
62			87000	91000	96000	101500	107000	112500	118000						62
63			87500	92000	97000	102000	107500	113000	118500						63
64			88000	92500	97500	102500	108000	113500	119000						64
65			88500	93000	98000	103000	108500	114000	120000						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						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

Department of Transportation & Public Facilities Regulations

- 17 AAC 25.013 Legal vehicle weight
- 17 AAC 25.017 Supplemental axles
- 17 AAC 25.100 Road closures and restrictions
- 17 AAC 25.900 Definitions

Metric tire size can be converted to inches by multiplying by .0394
 i.e. 255/70R22.5 = 255 mm X .0394 inches/mm = 10 inches

8'1" is the minimum spacing between axle groups. Axles spaced less than 8'1" apart are considered acting as one group.

For axle configurations not on this chart the gross vehicle weight may be determined by the following BRIDGE FORMULA:

$$Gross\ Vehicle\ Weight = 500 \left[\frac{LN}{N-1} + 12N + 36 \right]$$

L = 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.
 N = Total number of axles.

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.

Legal gross vehicle is always the most restrictive of the bridge formula and the gross weight as determined by axle weights or by tires.

Lift axle(s) in the drive group of the power unit are not counted in determining the legal maximum allowable weight.

MAXIMUM HIGHWAY SPEEDS

% Over Legal	Maximum Speed
Up to 125%	As Posted
> 125% to 140%	45 MPH
> 140% to 150%	40 MPH
> 150% to 175%	35 MPH
> 175%	25 MPH

AXLE WEIGHTS AND TIRE LOADINGS MUST ALSO BE CONSIDERED

Max tire loading = no. of tires X tire width (inches) X 600 pounds/inch

- Single axles = 20,000 pounds maximum
- 2 Axle group = 38,000 pounds maximum
- 3 Axle group = 42,000 pounds maximum *
- 4 Axle group = 50,000 pounds maximum

* Reference 17 AAC 25.013 (a)(5) for additional allowable weight on certain (3) axle combinations

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WB/Axles	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Axles/WB
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	128500	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