

Optimize Your Tyre Pressure to Optimize Your Trucks

Chet Cline

AIR CTI

The Ultimate Tyre Pressure Management Tool

Over Inflated



Correctly Inflated



Spot On for Maximum Traction



Would You Run 100 psi in Your 4x4?

**2.8 Tonne Landcruiser
4 Tyres at 35 psi
 $2800/4 = 700$ kg per tyre**

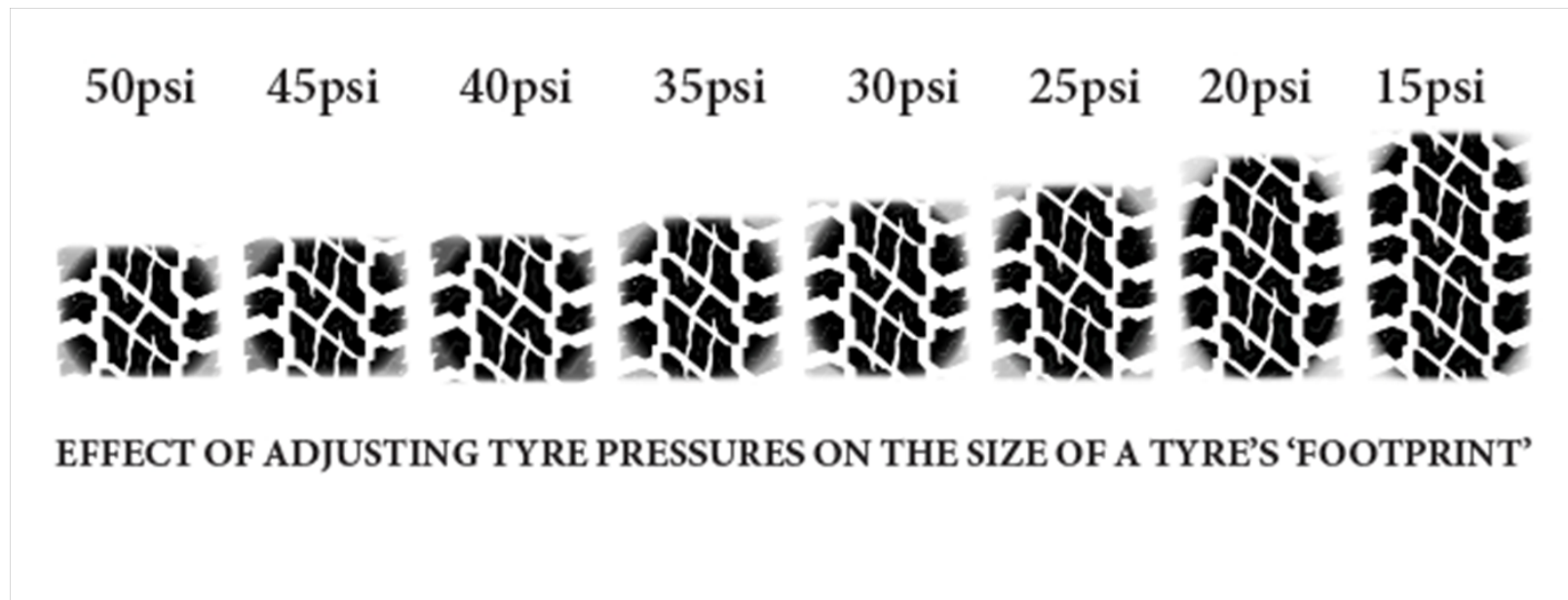


**5 Tonne Tandem Drive
8 Tyres at 100psi
 $5,000/8 = 625$ kg per tyre**

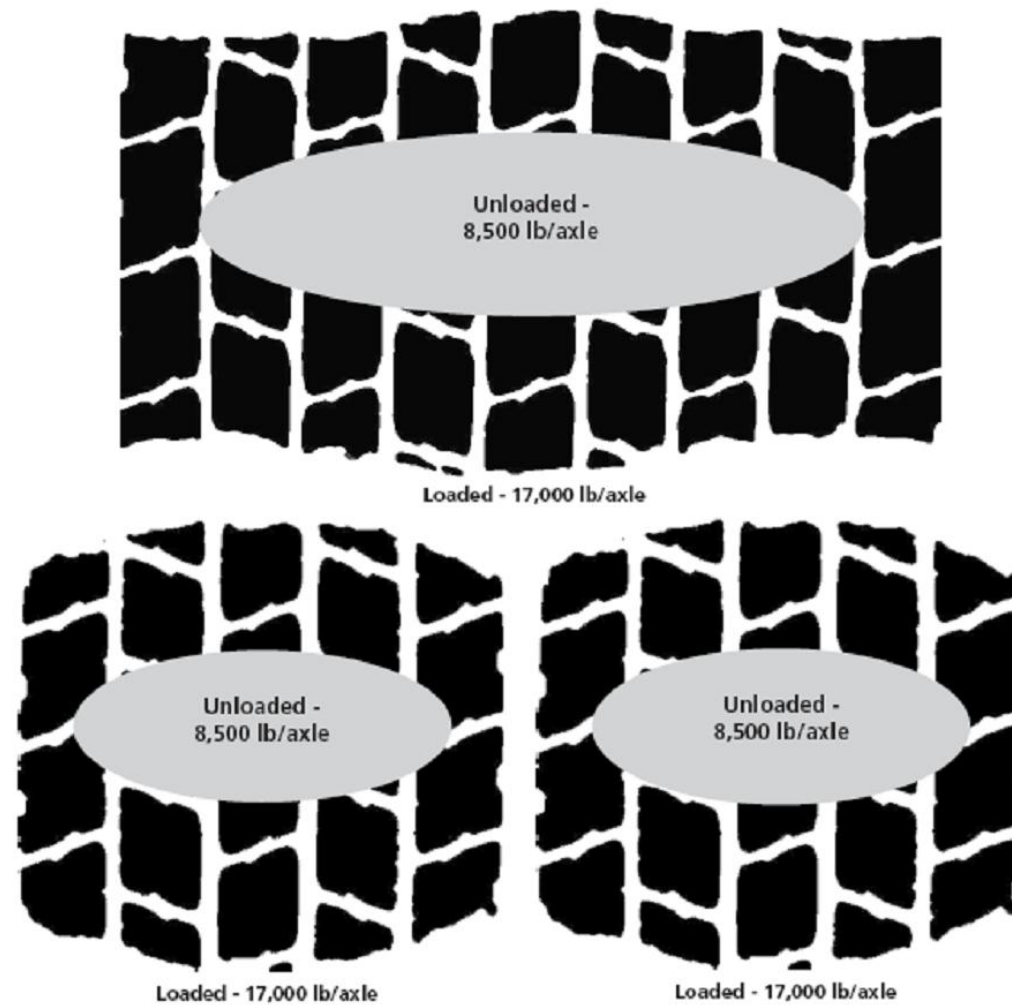


Why Do We Run 100 psi in Our Trucks

Tyre Footprints



Reduce Load, Reduces the Footprint



Section
X ON

What Is the Correct Tyre Pressure?

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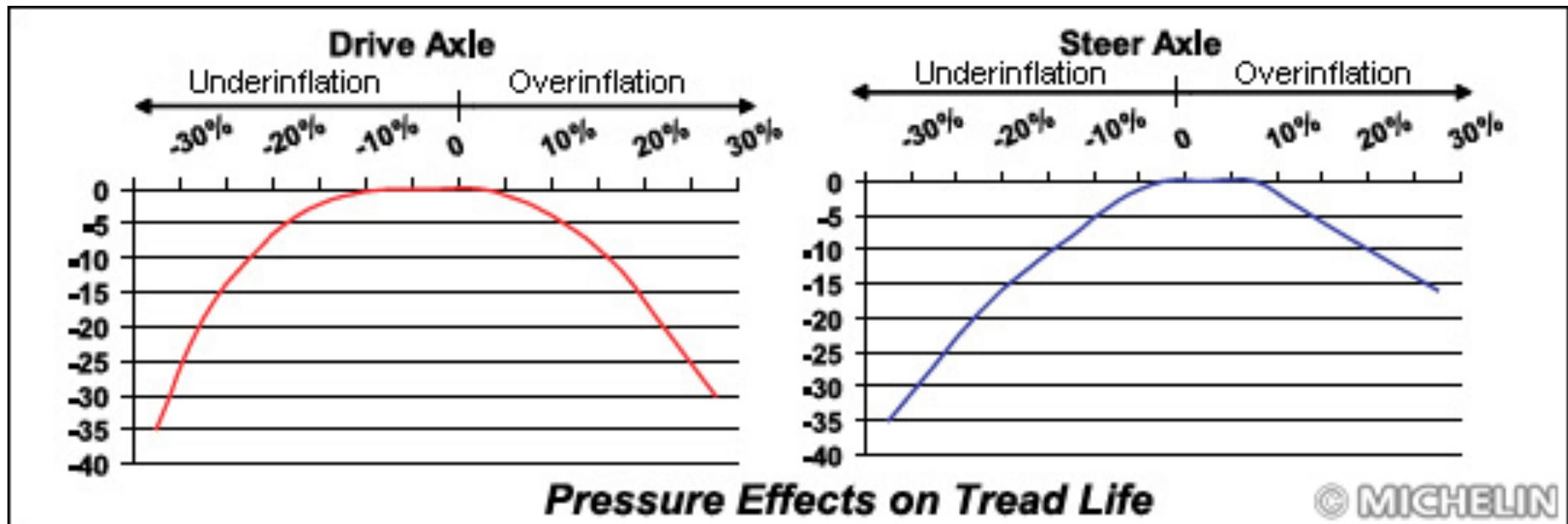
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DESIGNATION	USAGE	psi	70	75	80	85	90	95	100	105	110	115	120
8R19.5	DUAL	kg.	1120	1170	1215(D) ¹¹⁵	1285	1310	1360(E) ¹¹⁹	1410	1460	1500(F) ¹²²		
		lb.	2460	2570	2680(D)	2785	2890	3000(E)	3100	3200	3305(F)		
	SINGLE	kg.	1150	1220	1285(D) ¹¹⁷	1340	1400	1450(E) ¹²¹	1500	1550	1600(F) ¹²⁴		
		lb.	2540	2680	2835(D)	2955	3075	3195(E)	3305	3415	3525(F)		
8R22.5	DUAL	kg.	1250	1300	1360(D) ¹¹⁶	1410	1460	1500(E) ¹²²	1570	1640	1700(F)		
		lb.					3200	3305(E)	3455	3605			
	SINGLE	kg.	80					1550	1600(E) ¹²⁴	1670	1740	120	
		lb.						3415	3525(E)	3675	3825		
9R22.5	DUAL	kg.					1750(E) ¹²⁷	1820	1890	1950(F) ¹³¹			
		lb.					3860(E)	4005	4150	4300(F)			
	SINGLE	kg.	1530	1610	1690	1760	1850(E) ¹²⁹	1920	1990	2060(F) ¹³³	2120	2180	2240(G) ¹³⁶
		lb.	3370	3560	3730	3890	4080(E)	4235	4390	4540(F)	4675	4810	4940(G)
10R22.5	DUAL	kg.	1750	1830	1910	2000(E) ¹³²	2080	2160	2240(F) ¹³⁶	2300	2360	2430	2430(G) ¹³⁹
		lb.	3860	4045	4230	4410(E)	4585	4760	4940(F)	5075	5210	5355(G)	
	SINGLE	kg.	1850	1940	2030	2120(E) ¹³⁴	2200	2280	2360(F) ¹³⁸	2430	2500	2575(G) ¹⁴¹	
		lb.	4080	4280	4480	4675(E)	4850	5025	5205(F)	5360	5515	5675(G)	
11R22.5	DUAL	kg.	1990	2080	2160	2250	2360(F) ¹³⁸	2460	2560	2650(G) ¹⁴²	2680	2710	2725(H) ¹⁴³
		lb.	4380	4580	4760	4950	5205(F)	5415	5625	5840(G)	5895	5950	6005(H)
	SINGLE	kg.	2050	2160	2260	2370	2500(F) ¹⁴⁰	2600	2700	2800(G) ¹⁴⁴	2870	2940	3000(H) ¹⁴⁶
		lb.	4560	4770	4990	5220	5510(F)	5730	5950	6175(G)	6320	6465	6610(H)
11R24.5	DU		2160				2390	2500(F) ¹⁴⁰	2	3000(H) ¹⁴⁶			
	SIN		4760				5260	5510(F)	5	6610(H)			
12R22.5	DU		2160				2440	2575(F) ¹⁴¹	2	3075(H) ¹⁴⁷			
	SIN		4760				5390	5675(F)	5	6780(H)			
	DU		2160				2580	2725(F) ¹⁴¹	2	3350(H) ¹⁵⁰			
	SIN		4760				5690	6005(F)	6	7390(H)			
	DU		2160				2600	2650(F) ¹⁴²	2	3250(H) ¹⁴⁹			

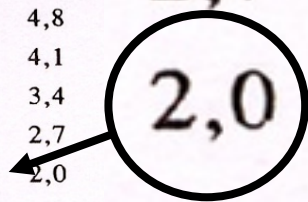
Correct Inflation Saves One Tyre Out of Three



How Low Can You Go?

Most Tyre companies don't like recommending any pressure under 65 or 70 psi, if Central Tyre Inflation is not used.

Charge par enveloppe <i>Load per tire</i> (Kg)		Vitesse - <i>Speed</i> (Km/h)												
		130	120	110	100	90	80	65	50	40	30	20	10	0
Nominal route	3150			8,0	8,0	7,9	7,9	7,9	7,7	7,6	7,0	6,2	5,4	4,0
	3000			7,6	7,6	7,5	7,5	7,5	7,3	7,2	6,7	5,8	5,2	3,8
<i>Nominal road conditions</i>	2750			6,9	6,9	6,8	6,8	6,8	6,7	6,5	6,0	5,3	4,7	3,4
	2500			6,2	6,2	6,1	6,1	6,1	6,0	5,9	5,4	4,7	4,2	3,1
	2250			5,5	5,5	5,4	5,4	5,4	5,3	5,2	4,8	4,2	3,7	2,7
	2050			4,9	4,9	4,9	4,9	4,8	4,8	4,7	4,3	3,8	3,3	2,4
	2000			4,8	4,8				4,6	4,5	4,2	3,7	3,2	2,3
	1750			4,1	4,1				4,0	3,9	3,6	3,1	2,7	1,8
1500			3,4	3,4				3,3	3,2	3,0	2,6	2,2	1,5	
1250			2,7	2,7				2,6	2,5	2,4	2,0	1,6	1,2	
1000			2,0	2,0				1,7	1,7	1,6	1,4	1,2	0,8	



With CTI, pressures down to 25 psi, or 1.7 bar, depending upon the load.

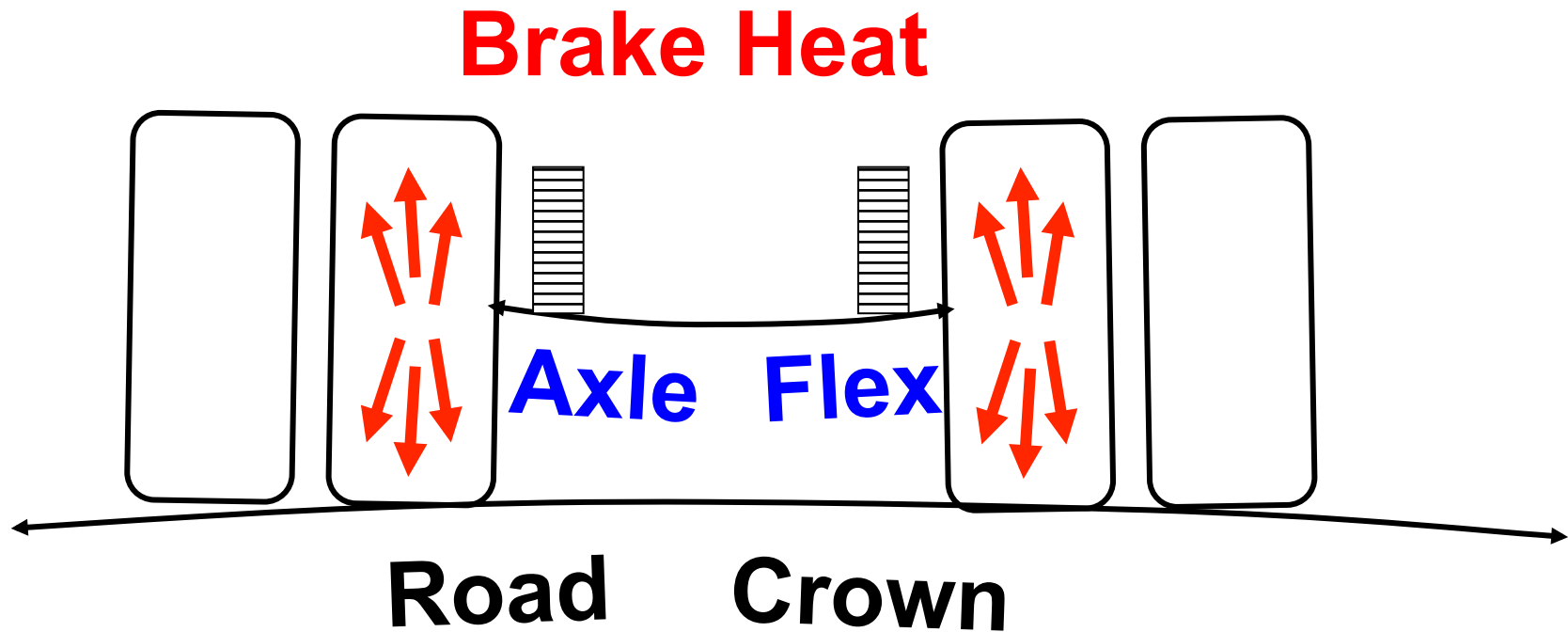
Lower Pressures Work Great On Gravel Roads

CONDITIONS NOMINALES - NOMINAL CONDITIONS :

	Charge Kg	Vitesse Km/h	Pression bar
Utilisation route - <i>Road use</i>	2650	100	8.0
Utilisation piste - <i>Track use</i>	1700	65	3.1
Utilisation sable/boue - <u><i>Sand/mud use</i></u>	1700	20	1.7
Utilisation en jumelé - <i>Dual fitment use</i>	2650	100	8.0
Point singulier (en simple) - <i>Unique point (single)</i>			
Point singulier (en jumelé) - <i>Unique point (dual)</i>			

Gravel and Dirt benefit from lower pressures at heavier loads.

Another Problem



Extra Load, More Heat, Higher Pressures, More Load

Whole Body Vibration



Whole-Body Vibration. From the EU Guide to good practice on WBV |

Our Drivers are Getting Vibrated to an Early Grave

Optimize Your Tyre Pressures to Optimize Your Business

Other Benefits:

- .Longer tyre life**
- .More Traction**
- .Less vibration**
- .Reduced Maintenance**
- .Reduced Breakdowns**
- .Reduced Down time**
- .Reduced Costs**
- .Higher Productivity**
- .Better Ride**
- .Better Control**
- .Shorter Stops**

- .Safer**
- .Lower Driver Stress**
- .Healthier Drivers**
- .Use Less Fuel**
- .Less Accidents**
- .Less Road Damage**
- .Longer Truck Life**
- .Better Resale**
- .Higher Profits**
- .Lower CO2**
- .Lower GHG Footprint**
- .More Competitive**

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www.aircti.com

On The Fly, Adjustable Tyre Pressure



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