



Commercial Tire Pressure Monitoring Systems ROI

FMCSA 2010 penalizes underinflated tires with up to 8 plenty points

Running Super Singles?

Using TPMS system can dramatically reduce the risk of wheel damage caused from a critical tire failure.

Tire Pressure monitoring Systems alerts drivers within 3 seconds of abnormal pressure or temperature readings

Correctly inflated tires require shorter stopping distance.

50% of road side assistance calls are tire related.

*Reduce Pre-trip inspection times
TPMS system constantly monitored pressure and temperature.*

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Independent verified statistics show that on average tires on commercial vehicles and trailers are underinflated by 19%.

Goodyear and Bridgestone both quote that a tire which is 20% under inflated is subjected to 23% more tire wear than a correctly inflated tire.

Amount of Under-inflation	Wasted Fuel	Additional Tire wear
3psi	+1%	+10%
6psi	+2%	+30%
9psi	+4%	+45%
* Under-inflated tires are dangerous. Cornering & Braking are compromised. Fuel is wasted. Tires wear out prematurely and are prone to blowouts = \$\$\$		

Air migrates from tires at a rate of 2psi per month.



ROI for Commercial Tire Pressure Monitoring Systems

Example: Company/Vehicle Information		ROI Calculations	
Number of trucks in fleet	50		
Number of trailers in fleet	100		
Number of tires per truck	10		
Number of tires per trailer	8		
	Total number of tires in fleet		1,300
"Work" days per month	25		
	"Work" days per year		300
Average miles driven per day per vehicle	400		
	Average fleet miles driven per day		20,000
	Average fleet miles driven per month		500,000
	Average fleet miles driven per year		6,000,000
Fuel Consumption			
Average MPG per vehicle	7		
Price per gallon	\$3.50		
	Average cost of fuel per truck per month		\$5,000.00
Average under-inflation (PSI)	10		
Fuel consumption loss (%)	2%		
	Average fuel savings per vehicle per month		\$100.00
	Average fleet fuel cost savings per month		\$5,000.00
	Average fleet fuel cost savings per year		\$60,000.00
Tire Maintenance			
Time required to check tire pressure manually (average of both singles and duels) (minutes)	2		
	Time required to check all tires per truck/trailer (min)		36
	Min number of times tires should be checked per month	8	
	Total number of minutes used to check tires under min requirements		288
	Total hours		4.8
Mechanic labor rate per hour w/benefits	\$15.00		
Number of mechanics performing tire checks	1		
	Average cost savings in mechanics time per month per vehicle		\$72.00
	Average cost savings in mechanics time per year for entire fleet		\$129,600.00
Tire Costs			
Number of tires purchased per year for entire fleet (%)	10%		
	Number of tires purchased per year due to under-inflation		130
	Number of tires purchased per year per vehicle		2.6
Cost per tire	\$300.00		
	Cost per tire per vehicle per month		\$65.00
	Cost per tire per vehicle per year		\$780.00
	Cost of tires for fleet per year		\$1,014,000.00
Reduction in tire life including blowouts and tire clippings with proper inflation (%)	30%		
	Total projected cost of tire per vehicle per month with achieved reduction		\$45.50
	Average tire replacement cost savings per month with % reduction, per truck		\$19.50
	Average tire replacement cost savings per year with reduction, for fleet		\$35,100.00
Roadside Calls			
Vehicles requiring a road-side call per year	10%		
	Number of road-side calls per year		15
Average cost per roadside call, including tire	\$700.00		
	Average road-side repair cost savings per vehicle per month		\$17.50
	Average fleet road-side repair cost savings per month		\$875.00
	Average fleet road-side repair cost savings per year		\$10,500.00
<i>If running super singles the average call out fee increases upto \$1500</i>			
	Average cost savings per month, per truck		\$100.00
Fuel cost savings			\$19.50
Tire cost savings			\$72.00
Labor savings			\$17.50
Road-side cost savings			\$209.00
	Estimated total monthly savings		\$209.00
Average cost savings per year, per truck			\$2,508.00
Average fleet cost savings per month			\$19,600.00
Average fleet cost savings per year			\$235,200.00
Return On Investment		6 Months	
ROI With Super Singles		3 Months	