

BatRF[®] by STEMCO

Pocket ROI

Expense Item	FMCSA / Booz Hamilton Research	Calculations				Our Assumptions					
Road Calls	"Improper tire inflation is likely responsible for about one-road call per year per tractor-trailer... One in four is for a tractor tire..."	Avg Cost of Road Call \$500	x	% of Roadcalls Avoided 50%	=	Avg. Savings per Vehicle \$250	Average roadcalls cost about \$500 - this is probably actually a minimum. We conservatively estimate you could save 1/2 of them. Divide by four (4) if equipping tractor only.				
Fuel	"Fuel economy loss due to improper tire inflation is about 0.6% for typical TL and LTL operations."	Avg. Miles 100,000	/	Avg. MPG 6	x	% fuel Saved 0.5%	x	Avg. Price per Gallon \$3.95	=	Avg. Fuel Savings per vehicle \$329	We conservatively estimate that 1/2 of 1% (0.5%) is saved through proper tire pressure management. We've had customers improve 1.7%.
Tread Wear	"On avg. 1 in 12 tires is underinflated by 20 psi or more (for hire); 1 in 8 for private carriers."	Avg. Annual Cost of Tread for One Tire \$250	x	Treadlife Increase 24%	=	Treadlife Savings per Vehicle \$60	Here we assume only one \$500 tire, which would typically last two years, is underinflated by 20 lbs, and the rest are properly inflated.				
Labor Savings	"An average 18-wheel tractor-trailer could easily take 30 minutes to check the pressure of each tire and add air to 3 or 4 of the tires"	Minutes saved on each tire inspection 15	/ 60	x	Labor Rate \$20	x 52	=	Labor Savings per Vehicle \$260	Here we assume only the inspection time savings (the tires still have to be filled if low). Time saved is multiplied by 52, assuming weekly inspection.		
=											
Estimated Annual Savings on Fuel, Tread Wear, Labor, and Road Calls											
\$899											

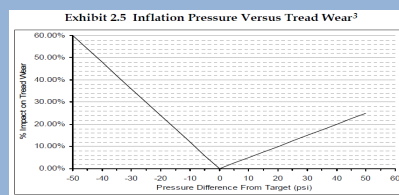
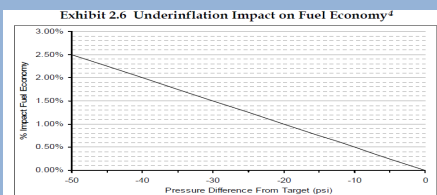
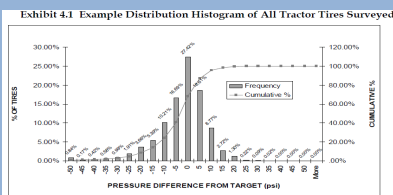


Exhibit 2.2 Injuries in Crashes Where "Vehicle Defect" was a Contributing Factor

Vehicle Factor	1998 Estimated Injuries	Percent Injuries
Brake System	1,883	49.0%
Tires	807	21.0%
Steering System	115	3.0%
Suspension	0	0.0%
Other Vehicle Factors	653	17.0%
No Details	384	10.0%
TOTAL	3,842	100.0%

* Source of Data and Charts: FMCSA Report: Commercial Vehicle Tire Condition Sensors, November 2003.