

# Interactive Trailer Aerodynamic Device ROI Calculator



- (1) Each truck travels approximately  miles per year
- (2) current fuel economy is approximately  miles per gal
- (3) Current national average fuel cost  gal
- (4) Number of gallons of fuel used per year per truck **#DIV/0!**
- (5) Total cost of fuel per year per truck pulling a trailer

## Trailer Calculator

(6) Trailer to truck ratio  to 1

### Device Discription

As an example: Installing a trailer skirt manufactured by Brand "X" on a 53' dry van with the bogey in the Cal position pulled by a SmartWay configured tractor with full sleeper-cab extenders-fuel tank skirts and a trailer to truck cab extenders gap of 32" can save:

	Percent of total miles traveled at the specific speed		The specific Speed		The amount of fuel used at each specific speed		The Percentage of fuel saving at each specific speed using the above listed device		The amount of money saved / year using the aero device at each speed
(7) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	70	mph	<b>#DIV/0!</b>	(13)	<input type="text" value="5.61%"/>	(19)	
(8) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	65	mph	<b>#DIV/0!</b>	(14)	<input type="text" value="5.24%"/>	(20)	
(9) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	60	mph	<b>#DIV/0!</b>	(15)	<input type="text" value="4.96%"/>	(21)	
(10) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	55	mph	<b>#DIV/0!</b>	(16)	<input type="text" value="3.74%"/>	(22)	
(11) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	50	mph	<b>#DIV/0!</b>	(17)	<input type="text" value="3.08%"/>	(23)	
(12) If	<input type="text" value="0.0%"/>	of the miles traveled are at a road speed of	40	mph	<b>#DIV/0!</b>	(18)	<input type="text" value="1.32%"/>	(24)	
								(25)	

**Annual saving per year per trailer using this aerodynamic option less maintenance and installation (26)**

### How do I get started saving \$\$\$\$ and using the ROI calculator?

#### Step One.

Enter the estimated miles traveled per tractor in # (1), the average fuel economy of your tractor in # (2), and the average annual cost of fuel for the period in # (3)

or

Enter the total cost of fuel used per truck pulling a trailer in # (5)

#### Step Two.

Enter your fleets trailer to truck ratio in number # (6)

#### Step Three.

Enter the percent of miles traveled (#7 through #12) by the tractor at each specific speed (this number is available off most tractor CPU's) or estimate these percentages based on your experience

#### Step Four.

Enter the percent of fuel savings(#13 through #18) at each specific speed. The company selling the device should have these figures. These values are best determined in a rolling road wind tunnel where the aerodynamic drag saving are reported using SAE J1252 reporting procedure and then cross referenced the results to the NASA fuel economy saving.

#### Step Five.

Number #19 to #24 will be calculated by the calculator.

Number #25 is the sum of #19 to #24 and is the projected saving annually using this device.

Number #26 is the annual saving per trailer using this device