



Vehicle Fuel Economy Labels

Fuels, Emissions & Technologies
Conference
27 November 2006

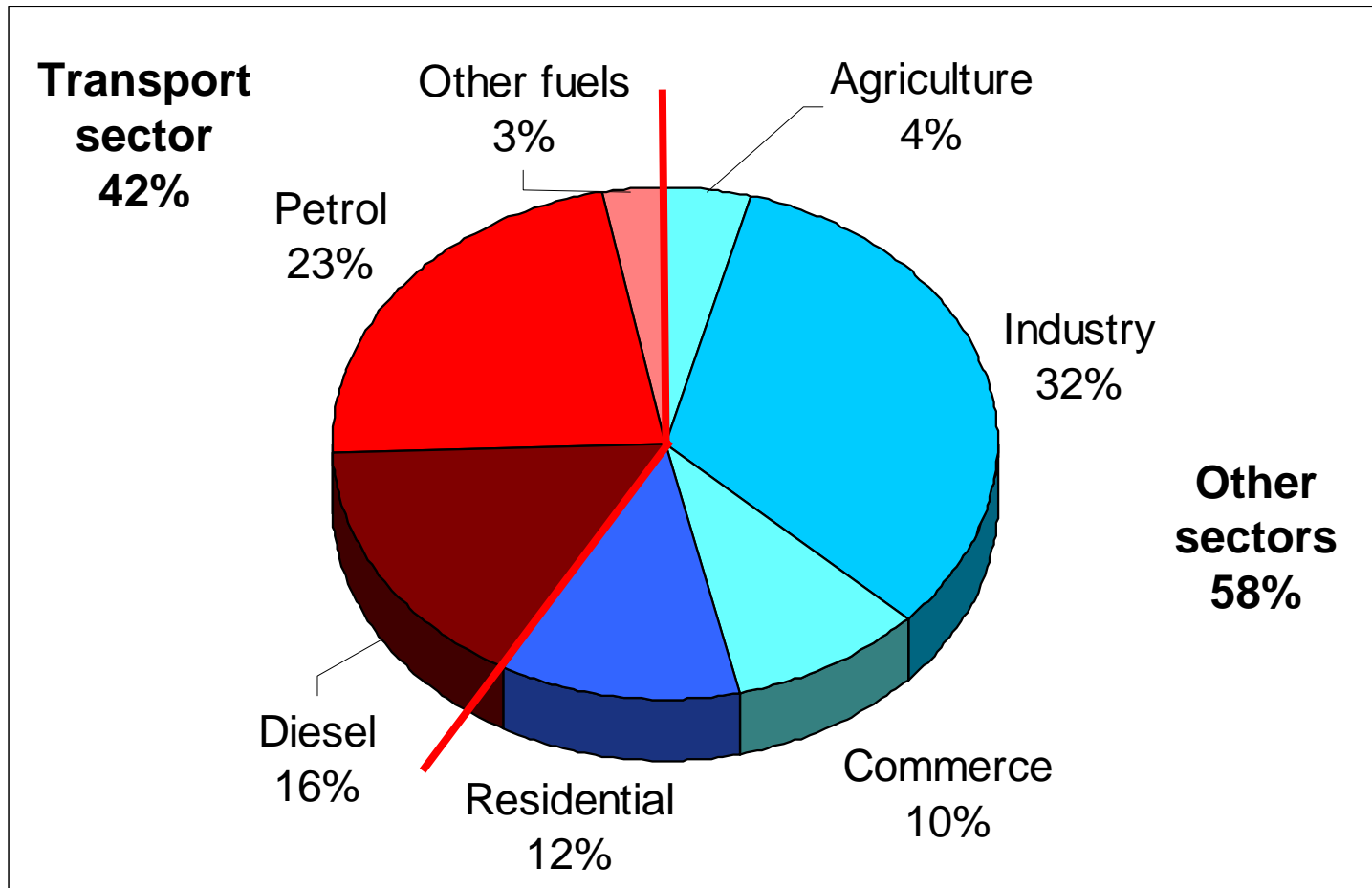
Tony Frost
Project Manager

Summary



- Background - information we collect – *fuelsaver* website
- Extending the information to labels
- How do we do this? Options

Transport Energy Use (2004)



Information is collected for:

- Most classes of light duty vehicles
 - New vehicles entering the fleet
 - Japanese used vehicles manufactured after 2000
- This information the basis for the fuelsaver website

www.fuelsaver.govt.nz



Land Transport NZ
Ikiiki Whenua Aotearoa

Helping build a New Zealand land transport system that's integrated, safe, responsive and sustainable.

[Accessibility](#) | [Help](#) | [Site index](#) | [Co](#)

[Home](#)

[About Land Transport NZ](#)

[Info about ...](#)

[Info for ...](#)

[Do it online](#)

[Newsroom](#)



$$\text{Car} \times \text{Distance} \times \text{Fuel} \times \text{Habits} = \text{\$cost / year}$$



How much do you spend on gas? How much can you save?

■ [Calculator Home](#)

■ [Car](#)

■ [Fuel](#)

■ [Distance](#)

■ [Habits](#)

[How do they work out fuel consumption rates?](#)

[Urban Myths](#)

[About us](#) | [www.govt.nz](#) | © Crown copyright 1998-2005



Where do consumers want to see the info?

Q. Would you generally prefer the comparative information to be...

	% respondents (n=253)
On a label that is displayed on the vehicle	54.2
In a pamphlet given out by the motor vehicle sales person	21.6
On a website	8.7
In car magazines	7.5
In vehicle advertising	5.1
Would expect it to be in the manual printed by car manufacturer	0.6
None – information is biased	0.2
Unsure	2.1

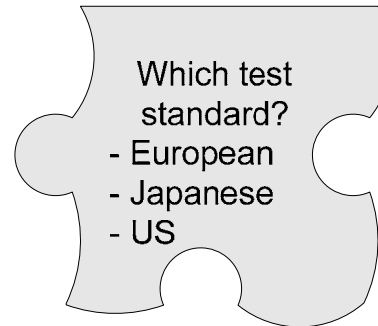
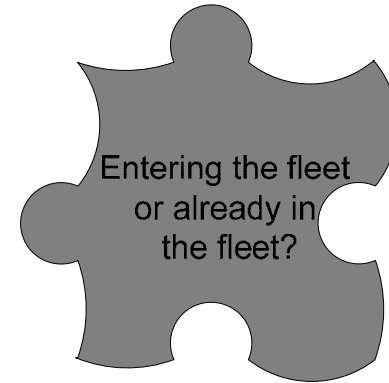
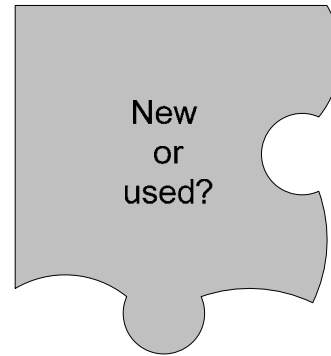
Base: Those who intend to buy a motor vehicle

A wide scope

- New and used vehicles
- Vehicles entering and already within the fleet
- Displayed at point of sale
- As many sales as possible (trader and private?)
- With information based on *fuelsaver*

Dimensions to a policy puzzle

Three major dimensions demarcate existing standards and legislative processes around vehicles

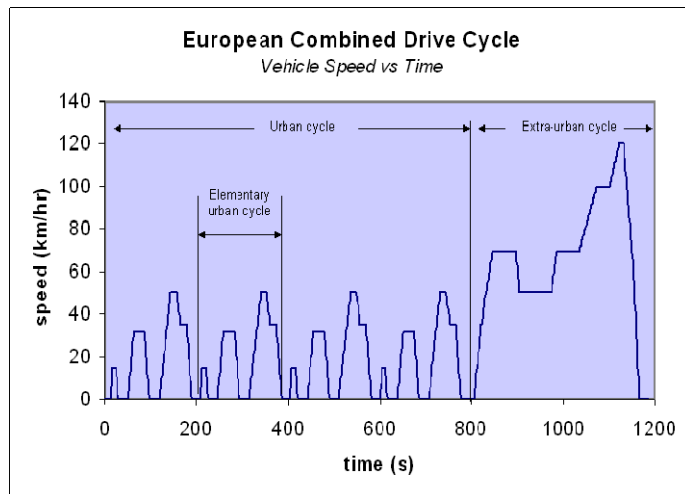


Test cycles: Europe & Japan

Figures from Japanese tests are not compatible with figures from European tests

Test cycles: Europe & Japan

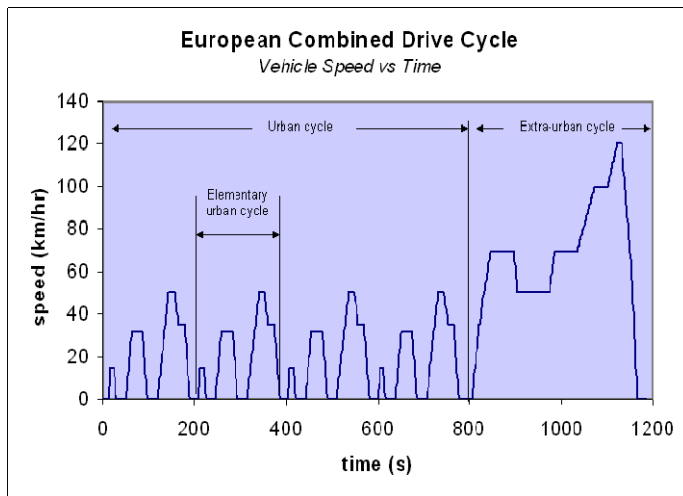
Figures from Japanese tests are not compatible with figures from European tests



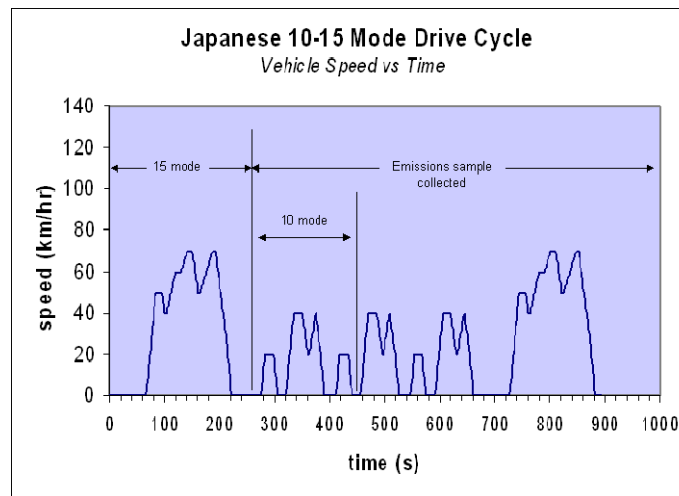
Drive Cycle Controlled in UNECE Regulation 101

Test cycles: Europe & Japan

Figures from Japanese tests are not compatible with figures from European tests

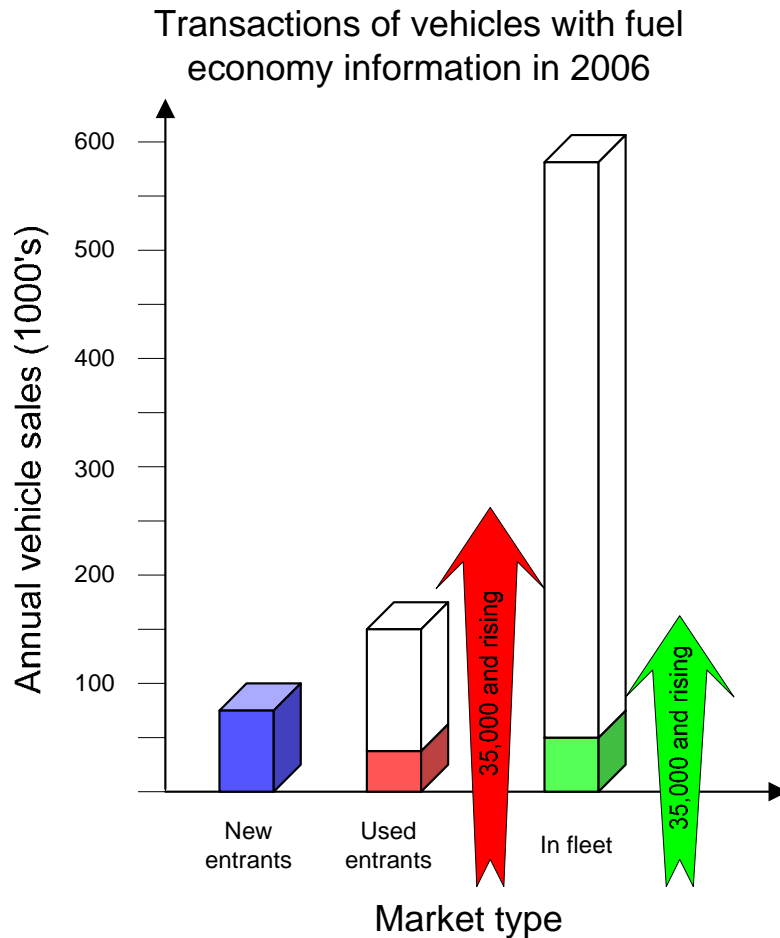


Drive Cycle Contained in UNECE Regulation 101



Drive cycle contained in the Japanese Automotive Type Approval Handbook, published by the Japan Automobile Standards Internationalization Centre (JASIC)

Vehicle transactions



- Coverage for used vehicles increasing quickly (50% by 2008)
- Most used entrants tested to Japanese standard
- Most new vehicles tested to European standard

Options for labels in NZ

Fuel economy information could be displayed on:

- Supplier Information Notice
- Certificate applied at point of entry
- License label
- Existing Japanese labels
- Dedicated label

We may adopt a combination of these

Overseas labels

FUEL CONSUMPTION

USE THIS LABEL TO COMPARE DIFFERENT MODELS

Comparative fuel consumption

litres per 100 km

Comparative CO₂ emissions

grams per km


This label is applied in accordance with ADR 81/01 under the *Motor Vehicle Standards Act 1989*

- Carbon dioxide (CO₂) is the main greenhouse gas responsible for global warming
- Actual fuel consumption and CO₂ emissions depend on factors such as traffic conditions, vehicle condition and how you drive.

Visit www.greenhouse.gov.au/fuelguide or phone 1300 130 606 for a free copy of the Fuel Consumption Guide

Australia

United Kingdom

Fuel Economy	Ford Fiesta 1.4 TDCi ZETEC												
<p>CO₂ emission figure (g/km)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p><100 A</p> <p>101-120 B</p> <p>121-150 C</p> <p>151-180 D</p> <p>180-185 E</p> <p>186+ F</p> </div> <div style="width: 15%; text-align: right;"> <p>B 117 g/km</p> </div> </div>													
<p>Fuel cost (estimated) for 12,000 miles</p> <p><small>A fuel cost figure reference to the consumer is given for comparison purposes. This figure is calculated by using the combined drive cycle (urban, extra-urban and combined) fuel consumption, the current cost per litre of the lowest "petrol" (the lowest 10p and 20p) and the 2014 2014.</small></p>	£662												
<p>VED for 12 months</p> <p><small>Vehicle excise duty (VED) or road tax is levied according to the CO₂ emissions and fuel type of the vehicle.</small></p>	£85												
<p>Environmental Information</p> <p><small>A guide to fuel economy and CO₂ emissions which contains data for all new passenger car models is available at any point of sale free of charge. In addition to the fuel efficiency of a car, driving behaviour as well as other non-technical factors play a role in determining a car's fuel consumption and CO₂ emissions. CO₂ is the main greenhouse gas responsible for global warming.</small></p>													
<p>Make/Model: Ford Fiesta 1.4 TDCi ZETEC</p> <p>Fuel type: Diesel</p>	<p>Engine capacity (lit): 1398</p> <p>Transmission type: 5 speed manual</p>												
<p>Fuel Consumption:</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Drive cycle</th> <th>Litres/100km</th> <th>Mpg</th> </tr> </thead> <tbody> <tr> <td>Urban</td> <td>5.4</td> <td>52.3</td> </tr> <tr> <td>Extra-urban</td> <td>3.8</td> <td>74.3</td> </tr> <tr> <td>Combined</td> <td>4.4</td> <td>64.2</td> </tr> </tbody> </table>		Drive cycle	Litres/100km	Mpg	Urban	5.4	52.3	Extra-urban	3.8	74.3	Combined	4.4	64.2
Drive cycle	Litres/100km	Mpg											
Urban	5.4	52.3											
Extra-urban	3.8	74.3											
Combined	4.4	64.2											
<p><small>Carbon dioxide emissions (g/km): 117g/km</small></p> <p><small>Important note: Some specifications of this model may have lower CO₂ emissions than this. Check with your dealer.</small></p>													
													

Fuel economy compliance



Fuel economy +5% compliance



Japan

To promote discussion...



- Hypothetical
- Extends recognition of appliance label
- Star rating across fleet
- Figure(s) for quantitative measure
- A band to show economy within a vehicle class
- A disclaimer around actual fuel economy
- A link to fuelsaver
- Carbon dioxide emissions?

Improving energy choices

www.eeca.govt.nz