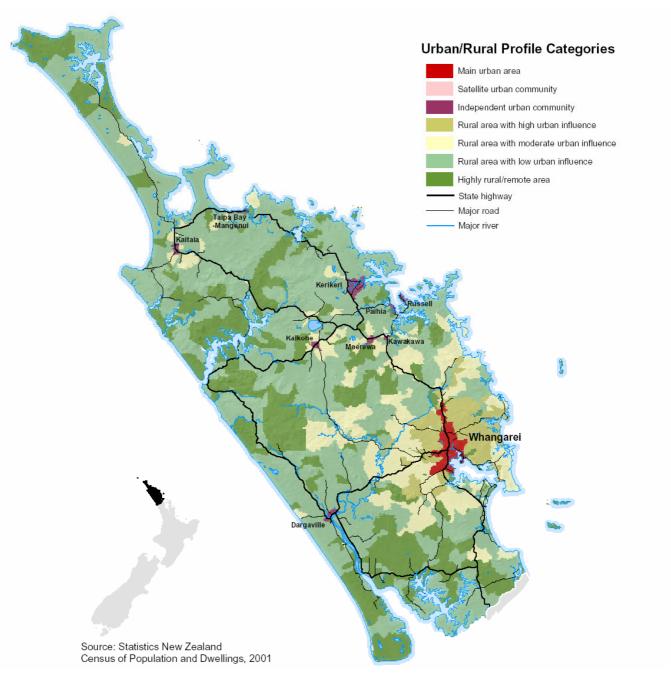


### land transport at a glance

#### Whangarei District

#### Map of the Northland Region



#### What is Land Transport At A Glance?

Land Transport At A Glance provides a brief overview of the state of the land transport system.

#### What does Land Transport At A Glance contain?

It contains key data that describes the contribution that land transport makes to the government's economic, social and environmental objectives for transport.

#### What is its purpose?

Land Transport At A Glance provides all approved organisations with an evidence base for decision-making.

#### Why do this?

The key strategic driver for providing data is the government's requirement that we be evidence-based and outcomes focused.

#### **Timing**

The release of Land Transport At A Glance coincides with the publication of the National Land Transport Programme (NLTP) by Land Transport NZ on 28 June 2006.

#### What are the limitations of the data?

This package is based on available data. There are gaps, which will be filled as quickly as possible. Where data does not presently exist, we will work with sector partners to obtain the data through research and other means.

#### Where does the data come from?

We have compiled data from a wide variety of sources and we will continue to refresh it from these sources. Sources of data have been stated under the graphs.

#### Is more data available?

A lot more data is available. A document containing detailed information about land transport is presently being prepared for release in December 2006.

#### **Moving forward**

In the long term the intention is to:

- publish Land Transport At A Glance each year in June to coincide with the release of the NLTP
- have land transport data available through Land Transport NZ's website.

#### Where can I get more information?

More information is available from the manager of performance information at your local Land Transport NZ office.

#### What if I have feedback?

Please contact the manager of performance information at your local Land Transport NZ office. We are keen to receive your feedback so that improvements can be made.

#### **How do I contact land Transport NZ offices?**

Phone	Northern Region	09 969 9800
	Midland Region	07 958 7840
	Central Region	04 931 8900
	Southern Region	03 964 2866

# Statistics for 2005

## Whangarei District Northland Region

Population of Land and and and and and and and and and						
148,600   148,600   4,098,900   49%   13,341   13,941   275,446   24%   24%   24,860.00   2,317,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,551,000,000   148,550,000   148,550,000   148,550,000   148,550,000   148,550,000   148,550,000   148,550,000   148,550,000   148,500,00		Territorial Authority (TA)	Region	National	TA as % of region	Region as % of nation
3,314   13,941   275,446   24%   24%   6,185,000     2,317,000       6,185,000	Population <sup>D</sup>	72,800	148,600	4,098,900	49%	4%
6,185,000   -	Land area (km²) <sup>D</sup>	3,314	13,941	275,446	24%	2%
NM         2,317,000         -	Imports (gross tonne) <sup>1 D</sup>		6,185,000	1		10%
γ (specification)         4,268,000,000         148,551,000,000         40%         Proposition         4,268,000,000         65,450,000         86,666,000         40%         Proposition         4,268,000,000         40%         Proposition         40% </td <td>Exports (gross tonne)<sup>1D</sup></td> <td></td> <td>2,317,000</td> <td>1</td> <td></td> <td>3%</td>	Exports (gross tonne) <sup>1D</sup>		2,317,000	1		3%
sport (\$) T J         26,162,000         65,450,000         873,924,000         40%         90           ngs J         -         14,255,000         -         4,082,000         -         14,255,000         -         -         4,082,000         -         -         -         4,082,000         -	Gross domestic product (GDP) (\$) M		4,268,000,000	148,551,000,000		3%
ngs J         215,000         86,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,666,000         98,526         2,790,610         52%         98,526         2,790,610         52%         9           Moleselly (M2) [in 2004] b         No         1,545,000,000         38,874,000,000         43%         9         9           John (M2) [in 2004] b         79,500,000         186,500,000         186,800,000         43%         9         9           I (tonnes) [in 2004] b         234         507         16,820         46%         9         9           I (tonnes) [in 2004] b         234         507         16,820         46%         9         9           I (tonnes) [in 2004] b         234         5,270         46%         44%         9         9           I (tonnes) [in 2004] b         711         1,628         32,819         44%         9         9           I (tonnes) [in 2004] b         711         712         65,434         28%         9         9           I (tonnes) [in 2004] b         711         716,834         74%         9         9	Total TA expenditure on land transport (\$) T J	26,162,000	65,450,000	873,924,000	40%	%2
gs J lings J b 51,641 98,526 2,790,610 52% 52% 52,000,000 1,545,000,000 38,874,000,000 27% 52% 52% 52,000,000 38,874,000,000 27% 52% 52% 52% 52% 52% 52% 52% 52% 52% 52	Passenger transport - bus boardings J		215,000	86,666,000		%0
lings J         51,641         98,526         2,790,610         52%         75,600,000         1,545,000,000         38,874,000,000         27%         75%           No         No         1,645,000,000         3,554,000,000         27%         75%           Journes) [in 2004] D         79,500,000         186,500,000         3,554,000,000         43%         75%           Journes) [in 2004] D         0,005,000         178,600,000         178,600,000         43%         75%           Journes) [in 2004] D         0,000,000         178,600,000         43%         75%         75%           Journes) [in 2004] D         0,000,000         17,600,000         17,600,000         44%         75%           Journes) [in 2004] D         0,000,000         10,800         46%         75%         75%           Journes) [in 2004] D         0,000,000         0,000,000         16,423         48%         75%           Journes) [in 2004] D         0,000,000         0,000,000         0,000,000         10,800         10,800         10,800           Journes [in 2004] D         0,000,000         0,000,000         0,000,000         0,000,000         10,800         10,800         10,800         10,800         10,800         10,800         10,800	Passenger transport - rail boardings J		1	14,255,000		%0
51,641         98,526         2,790,610         52%           423,000,000         1,545,000,000         38,874,000,000         27%           No         79,500,000         186,500,000         3,554,000,000         43%           ) D         6,075,000,000         43%         1           (diesel) (ML²) [in 2004] D         186,800,000,000         43%         1           t (tonnes) [in 2004] D         234         507         46%         1           t (tonnes) [in 2004] D         234         507         46%         1           t (tonnes) [in 2004] D         1,499         5,270         46%         1           t (tonnes) [in 2004] D         1,499         5,270         46%         1           t (tonnes) [in 2004] D         1,499         5,270         46%         1           t (tonnes) [in 2004] D         1,499         5,270         46%         1           t (tonnes) [in 2004] D         1,499         5,270         46%         1           t (tonnes) [in 2004] D         1,499         5,270         44%         1           t (tonnes) [in 2004] D         1,44%         1         1	Passenger transport - ferry boardings J		•	4,082,000		%0
1 (tonnes) [in 2004] b         423,000,000         1,545,000,000         3,554,000,000         27%         79,500,000         186,500,000         3,554,000,000         43%         74%         73%         74% <t< td=""><td>Motor vehicles <sup>D</sup></td><td>51,641</td><td>98,526</td><td>2,790,610</td><td>52%</td><td>4%</td></t<>	Motor vehicles <sup>D</sup>	51,641	98,526	2,790,610	52%	4%
No	VKT (km) <sup>v J</sup>	423,000,000	1,545,000,000	38,874,000,000	27%	4%
D       79,500,000       186,500,000       3,554,000,000       43%       43%         diesel) (MJ²) [in 2004] D       186,500,000       186,800,000,000       43%       186,800,000,000         t (tonnes) [in 2004] D       234       507       46%       46%         t (tonnes) [in 2004] D       1,499       5,270       46%       46%         t (tonnes) [in 2004] D       1,499       5,270       46%       46%         t (tonnes) [in 2004] D       1,499       5,270       46%       44%         t (tonnes) [in 2004] D       711       1,628       32,819       44%         t (tonnes) [in 2004] D       750       10,894       44%       750         t (tonnes) [in 2004] D       732       10,894       74%       750       710,894       <	ls congestion an issue?	No				
J b       diesel) (MJ²) [in 2004] <sup>D</sup> 6,075,000,000       6       6,075,000,000       6         t (tonnes) [in 2004] <sup>D</sup> 234       507       16,820       46%       76         t (tonnes) [in 2004] <sup>D</sup> 234       507       46%       46%       76         t (tonnes) [in 2004] <sup>D</sup> 227       467       46%       76%       76%       76%         t (tonnes) [in 2004] <sup>D</sup> 11,499       5,270       65,434       28%       78%       76%       78%       7	Social cost (\$) D	79,500,000	186,500,000	3,554,000,000	43%	%9
diesel) (MJ²) [in 2004] <sup>D</sup> 186,800,000,000       186,800,000,000       46%       50       46%	Deliveries of petrol & diesel (litres) D			6,075,000,000		
t (tonnes) [in 2004] <sup>D</sup> 234 507 16,820 46% 66 46% 70 16,423 49% 70 16,423 49% 70 16,423 49% 70 10,894 70 10,894 70 10,838 732 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 732 70 10,838 733 733 74 752 70 10,838 74 752 70 10,838 74 752 75 75 75 75 75 75 75 75 75 75 75 75 75	Energy use by transport (petrol + diesel) (MJ $^2$ ) [in 2004] $^{\rm D}$			186,800,000,000		
234     507     16,820     46%       227     467     16,423     49%       1,499     5,270     65,434     28%       711     1,628     32,819     44%       750     10,894     44%       732     10,838       733     10,838       750     750       750     10,838       750     750       750     10,838       750     750       750     10,838       750     750	$\mathrm{CO}_2$ emissions from land transport (tonnes) [in 2004] $^\mathrm{D}$			12,505,000		
227         467         16,423         49%         49%           1,499         5,270         65,434         28%         28%           711         1,628         32,819         44%         28%           750         10,894         44%         28%         24%         28%           732         732         10,838         24         24         24         24           732         732         732         732         732         732         732         732         733         734	Local roads - all urban (km) <sup>J</sup>	234	202	16,820	46%	3%
1,499     5,270     65,434     28%       711     1,628     32,819     44%       750     10,894     10,894       732     10,838       -     172	Local roads - sealed urban (km) <sup>J</sup>	227	467	16,423	49%	3%
711     1,628     32,819     44%       750     10,894     732       732     10,838       -     172	Local roads - all rural (km) <sup>J</sup>	1,499	5,270	65,434	28%	%8
750     10,894       732     10,838       -     172	Local roads - sealed rural (km) <sup>J</sup>	711	1,628	32,819	44%	%9
732     10,838       -     172	State highw ay - all (km) <sup>4 J</sup>		750	10,894		%2
- 172	State highw ay - sealed (km) <sup>4 J</sup>		732	10,838		%2
	State highw ay - motorw ay (km) J		-	172		%0

<sup>&</sup>lt;sup>1</sup> indicative only - based on 2002 data. This includes both inter-national and inter-regional freight movement.

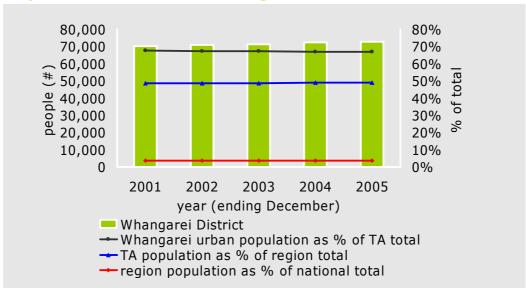
<sup>&</sup>lt;sup>2</sup> 1 MJ = 1 mega-joule = 10  $^{6}$  joules

 $<sup>^{</sup>D}$  indicates year ending Dec;  $^{J}$  indicates year ending June;  $^{M}$  indicates year ending March.

Total expenditure covers local and national contributions to territorial authority expenditure. Regional Council and Transit NZ costs are excluded.  $^{
m V}$  TA VKT = local roads. Regional and national VKT includes local roads and state highways

#### **Population**

#### **Population estimates for Whangarei District**

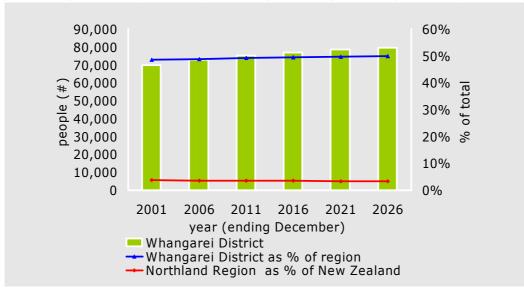


Source: Statistics NZ

**Growth rates:** (average per annum for years shown)

Urban Area - Whangarei 0.63% Whangarei District 1.00% Northland Region 0.73% New Zealand 1.41%

#### **Population projections for Whangarei District**



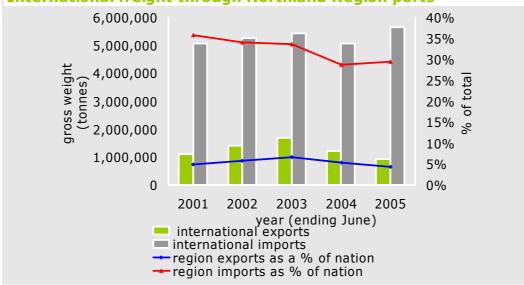
Source: Statistics NZ

**Growth rates:** (average per annum for years shown)

Whangarei District 0.55%
Northland Region 0.42%
New Zealand 0.88%

#### **Economic impacts**

#### **International freight through Northland Region ports**

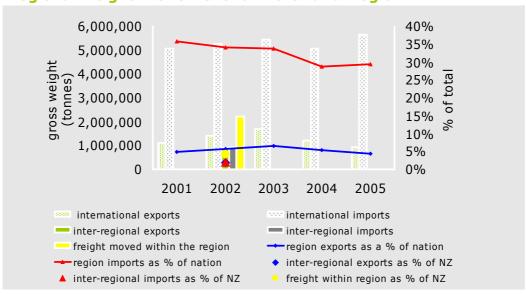


Source: Statistics NZ

Airport(s):

Seaport(s): Whangarei

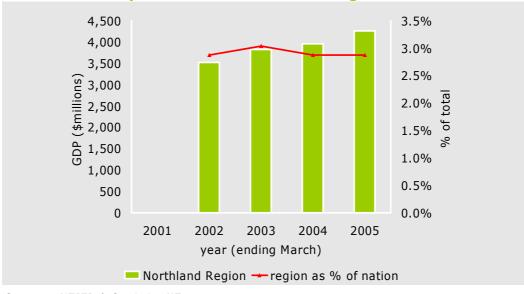
#### **Regional freight movement for Northland Region**



Source: Booz Allen Hamilton (NZ) Ltd, 2005, Development of a New Zealand National Freight Matrix

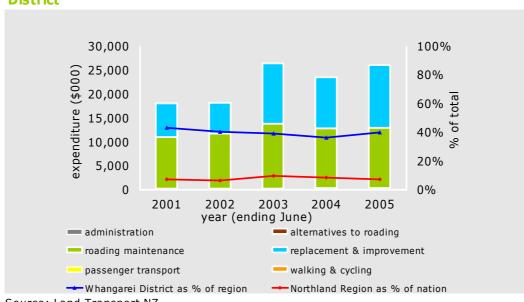
#### **Economic impacts** (continued)

#### **GDP** in current prices for the Northland Region



Sources: NZIER & Statistics NZ

#### Total territorial authority expenditure on land transport for Whangarei District

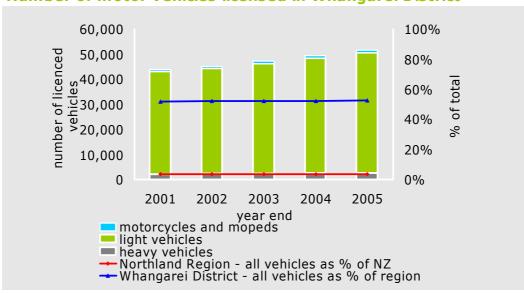


Source: Land Transport NZ  $\,$ 

Total expenditure covers local and national contributions to territorial authority expenditure. Regional Council and Transit NZ costs are excluded

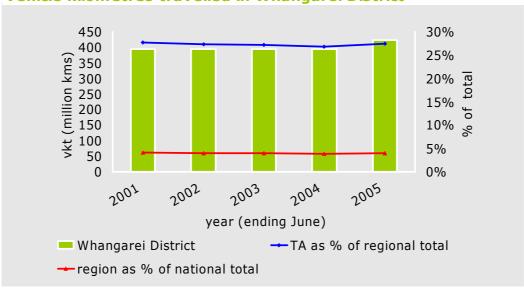
#### **Use of land transport**

#### **Number of motor vehicles licensed in Whangarei District**



Source: Motor vehicle register

#### Vehicle kilometres travelled in Whangarei District



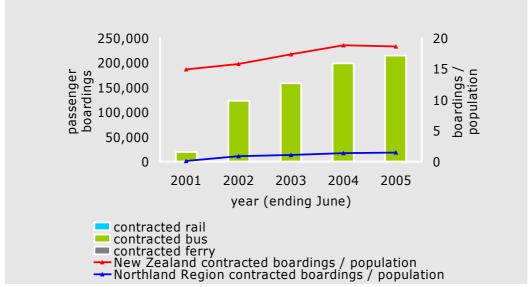
Source: Territorial local authorities

TA VKT = local roads

Regional and national VKT includes local roads and state highways

#### **Use of land transport** (continued)

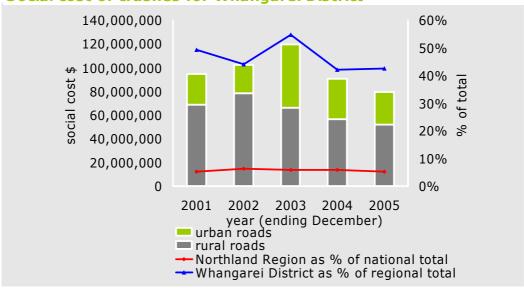
#### Contracted passenger transport services in the Northland Region



Source: Regional Councils

#### **Social impacts**

#### Social cost of crashes for Whangarei District

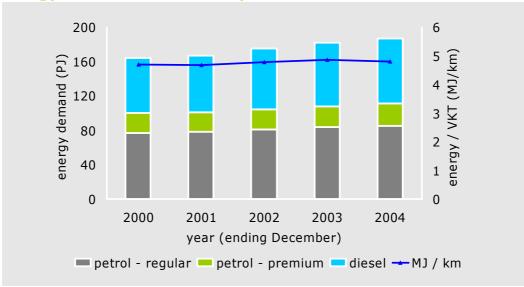


Source: Crash analysis system

For details of road safety, refer to the Road Safety Issues report

#### **Environmental impacts**

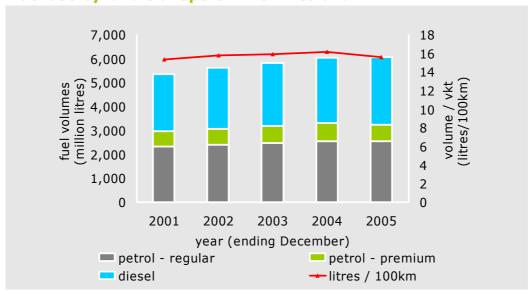
#### **Energy demand of land transport in New Zealand**



Source: MED, June 2005, NZ Greenhouse Gas Emissions 1990 - 2004 and Statistics NZ Deliveries of Petroleum Fuels by Industry

$$1 \text{ PJ} = 10^{15} \text{ joules} = 10^9 \text{ MJ}$$

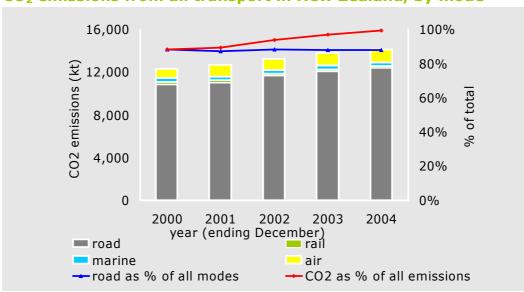
#### Fuel use by land transport in New Zealand



Source: Statistics NZ Deliveries of Petroleum Fuels by Industry

#### **Environmental impacts** (continued)

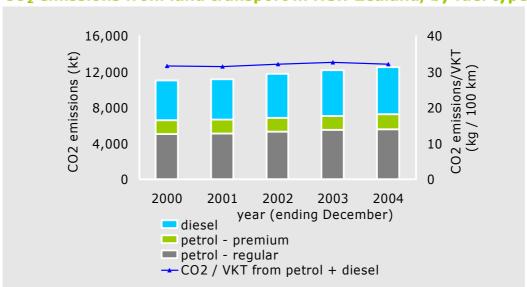
#### CO<sub>2</sub> emissions from all transport in New Zealand, by mode



Source: MED, June 2005, NZ Energy Greenhouse Gas Emissions 1990-2004

1 kt = 1 kilo tonne = 1000 tonnes

#### CO<sub>2</sub> emissions from land transport in New Zealand, by fuel type



Source: MED, June 2005, NZ Energy Greenhouse Gas Emissions 1990-2004

1 kt = 1 kilo tonne = 1000 tonnes