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For more information about the background to the survey see the Ministry of Transport website at www.transport.govt.nz/research/travelsurvey/

Regional breakdowns of some of the data presented here are available from this website.
A number of Transport Indicators also have further information on public transport.

A selection of fact sheets is available in the Research area of the Ministry of Transport website. These include:

## Crash facts:

- Alcohol and drugs
- Cyclists
- Diverted attention
- Fatigue
- Motorcyclists
- Overseas drivers
- Pedestrians
- Speed
- Trucks $~$ Motorcycling
- Young drivers

Travel survey:

- Comparing travel modes
- Driver travel
- Risk on the road
- Introduction and mode comparison
- Drivers and their passengers
- Pedestrians, cyclists and motorcyclists
- Walking
- Cycling
- Public Transport


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## Key facts

- $34 \%$ of people in New Zealand have used local public transport in the last year.
- $42 \%$ of people living in main urban areas have used local public transport in the last year, compared to $16-17 \%$ of people in secondary urban areas and rural areas.
- Nearly two thirds of people in the greater Wellington area have used local public transport in the past year.
- 13-17 year olds are the most likely to have used public transport in the last year.
- Over 60 percent of public transport travel is commuting to work or education.
- Train trips tend to be longer than bus trips.


## Overview

The New Zealand Household Travel Survey is an ongoing survey of household travel conducted for the Ministry of Transport. Each year, people in $4,600^{1}$ households throughout New Zealand were invited to participate in the survey by recording all their travel over a two-day period. Each person in the household was then interviewed about their travel and was also asked about their alcohol consumption and other travel-related information.

This fact sheet focuses on public transport use. It uses data from 67,956 people in 26,919 households, collected between July 2003 and June 2014, with a particular focus on July 2011-June 2014 (24,851 people in 9,788 households). Professional driver trips ${ }^{2}$ have been excluded from the analysis.

Words (other than headings) shown in blue are defined in the glossary at the end of the sheet.

As the survey covers periods starting July in a given year and finishing in June the following year, it should be noted that 2011-2014 refers to a three year time period (July 2011-June 1014).

[^0]Figure 1: Overall share of mode of travel


Figure 1 shows each travel mode's share of the total travel time and trip legs travelled. Public transport makes up 4 percent of total time travelled and 3 percent of all trip legs and total distance travelled. Table 1 shows the time, distance and number of trip legs travelled using each major mode of travel.

Table 1: Travel mode share of time, distance and trip legs (2011-2014)

|  | Trips in <br> sample | Million hours <br> per year | Million km <br> per year* | Million trip <br> legs per year |
| :--- | ---: | ---: | ---: | :---: |
| Travel mode | 95,557 | 820 | 30,374 | 3,093 |
| Driver (in private car/van) | 47,718 | 430 | 17,104 | 1,513 |
| Passenger (in private car/van) | 29,874 | 205 | 807 | 987 |
| Pedestrian | 4,309 | 66 | $\mathbf{1 , 5 2 1}$ | 163 |
| Public transport | 2,797 | 25 | 313 | 71 |
| (bus/train/ferry) | 594 | 6 | 250 | 19 |
| Bicycle | 1,196 | 35 | 528 | 38 |
| Motorcycle | 182,045 | 1,586 | 50,897 | 5,885 |
| Other household modes |  |  |  |  |
| Total |  |  |  |  |

*Note: Distance estimates are available for road and rail-based modes only.
Totals may not add exactly due to rounding.

Overall people in New Zealand spend 66 million hours per year using public transport, covering at least 1,521 million km per year (excluding ferry travel), and making 163 million trip legs per year.

## Travel mode share by age group

Figure 2 shows travel patterns for various age groups. The greatest use of public transport is by school-aged children and those 15-24 years. Those 5-14 years old spend the greatest percentage of their time travelling by public transport, at $10 \%$. People aged $25-74$ were the most car-dependent,
with $3 \%$ or less of their total travel time spent on public transport. The travel mode share pattern for distance travelled is similar to that shown here for time travelled.

Figure 2: Proportion of total travel time by mode of travel


Table 2: Public transport travel per person per year by age (2011 - 2014).

| Age | Time per person <br> (hours per person per <br> year) | Distance per person <br> (km per person per <br> year) |
| :---: | :---: | :---: |
| $0-4$ | 2 h 17 m | 41 |
| $5-14$ | 23 h 21 m | 515 |
| $15-24$ | 35 h 12 m | 795 |
| $25-34$ | 11 h 37 m | 264 |
| $35-44$ | 11 h 18 m | 277 |
| $45-54$ | 9 h 50 m | 248 |
| $55-64$ | 8 h 26 m | 235 |
| $65-74$ | 6 h 52 m | 160 |
| $75+$ | 8 h 40 m | 188 |
| Total | 14 h 41 m | 341 |

Table 2 shows public transport use per head of population by age group. 5-14 year olds and 15-24 year olds spend more time on public transport and travel further than any other age group. They spend more than twice as much time and travel more than twice as far as those of other ages on average. However even 15-24 year olds spend on average only 40 minutes per week travelling by public transport.

## Who uses public transport?

The two-day sampling period of the survey means that someone may use public transport regularly, but not do so in the sampled period. People were also asked if they had used public transport to travel in their local area at all in the past year. If they had, they were then asked how often they had used it in the last month. Table 3 shows the results.

Table 3: Public transport usage in the past year

|  | Sample size | Population in <br> category $^{3}$ | Percentage |
| :--- | :---: | :---: | :---: |
| Not at all in last year | 17,032 | $2,922,600$ | $66 \%$ |
| Not at all in last month but in | 3,534 | 635,200 | $14 \%$ |
| the last year | 2,080 | 404,500 | $9 \%$ |
| On 1-4 days | 610 | 122,600 | $3 \%$ |
| On 5 - 9 days | 655 | 138,300 | $3 \%$ |
| On 10 - 19 days | 940 | 236,200 | $5 \%$ |
| On 20 days or more | 24,851 | $4,459,300$ | $100 \%$ |
| Total |  |  |  |

Two thirds (66 percent) said that they hadn't used public transport in their local area in the past year. 14 percent had used it in the last year, but not in the last month and 20 percent had used it in the last month.

Figure 3: Public transport usage in the past year by age group


[^1]Figure 3 shows public transport use in the last year by age group. 13-17 year olds (i.e. those of secondary school age) were most likely to have used public transport in the last month (48 percent), followed by those 18-29 years old (30 percent). 18 percent of $13-17$ year olds had used public transport on 20 days or more in the last month, implying it was used regularly on weekdays. Women were slightly more likely to have used public transport in the last year (37 percent of women, compared to 32 percent of men). Otherwise, there is little difference in the patterns of frequency of usage.

Table 4 shows the difference in public transport use between major urban areas and smaller towns and rural areas. The differences will reflect the relative availability of public transport and the convenience of public transport us over other modes of travel.

Table 4: Public transport usage in the past year by residential area type

|  | Main Urban Area | \% of populatio <br> Secondary Urban Area | Rural | Total |
| :---: | :---: | :---: | :---: | :---: |
| People sampled | 17,273 | 1,705 | 5,873 | 24,851 |
|  | Used public transport... |  |  |  |
| Not at all in last year | 58\% | 83\% | 84\% | 66\% |
| Not at all in last month but in the last year | 17\% | 9\% | 8\% | 14\% |
| On 1-4 days | 11\% | 5\% | 4\% | 9\% |
| On 5-9 days | 3\% | 2\% | 1\% | 3\% |
| On 10-19 days | 4\% | 1\% | 1\% | 3\% |
| On 20 days or more | 7\% | 1\% | 2\% | 5\% |
| Total | 100\% | 100\% | 100\% | 100\% |

42 percent of those in main urban areas (30,000 people or more) used local public transport in the past year, whereas only 16 percent of those in rural areas used it. Usage in secondary urban areas is closer to that observed in rural areas than in main urban areas.

Table 5: Public transport usage in the past year by urban area

|  | Urban area |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Auckland | Hamilton | Wellington (including Kapiti) | Christchurch | Dunedin | National |
| People sampled | 4,892 | 1,213 | 1,864 | 3,697 | 959 | 24,851 |
| Used public transport... |  |  |  |  |  |  |
| Not at all in last year | 52\% | 71\% | 34\% | 63\% | 61\% | 66\% |
| Not at all in last month but in the last year | 17\% | 13\% | 25\% | 17\% | 18\% | 14\% |
| On 1 - 4 days | 12\% | 9\% | 19\% | 10\% | 11\% | 9\% |
| On 5-9 days | 4\% | 3\% | 5\% | 3\% | 4\% | 3\% |
| On 10-19 days | 4\% | 2\% | 7\% | 4\% | 4\% | 3\% |
| On 20 days or more | 10\% | 2\% | 10\% | 3\% | 2\% | 5\% |
| Total | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |

People from the greater Wellington area were most likely to have used public transport, with two thirds of them having used it in the past year (Table 5). Of the five main centres, people from Hamilton were least likely to have used public transport in the last year (29 percent in the last year).

## Walking by public transport users

If we look at how much time people spent walking as a function of their public transport use (Figure 4), those who used public transport most often (on 20 days or more in the last month) were most likely to report some time walking per day (56\%). 12\% of the regular public transport users walked for 1019 minutes per day, 13\% 20-29 minutes per day and 8\% walked for over an hour a day. Of those who had not used public transport in the last year, $84 \%$ reported no walking on New Zealand roads on a surveyed day.

This correlation may reflect a conscious choice on the part of users, because walking is often necessary to access public transport, or both could result from lack of access to a vehicle.

Figure 4: Time spent walking per day by frequency of public transport use (2011-2014).


## Household characteristics

Comparing public transport use with the number of motor vehicles in the household (Figure 5), 60\% of people in households with no vehicle used public transport in the last year. For households with two or more cars, this drops to $32 \%$ of people or less using it in the last year.

Figure 5: Frequency of public transport use by number of vehicles in household (2011 - 2014).


## Characteristics of public transport use

Train travel tends to be longer, with a median trip leg duration of 25 minutes covering approximately 16 kilometres, compared to the bus median trip leg duration of 20 minutes but covering only 5.9 kilometres.

Figure 6: Time spent travelling by public transport per day (2011-2014).


## Reasons for travel

People's purpose/destination for travelling when using public transport follows a quite different pattern compared to their reasons for travelling in general (Figure 7).

Figure 7: Percentage of travel by purpose


Excluding travel home, 62 percent of travel by public transport is commuting to education or work: 36 percent to get to a place of education and 26 percent to get to work. This compares to 6 percent for education and 15 percent to get to work for all travel.

This reflects the age group breakdown, with those of secondary school age being most likely to have used public transport (Figure 3).

## Trends in public transport usage

Public transport usage over time is shown in Table 6 and Figure 8. Over the last few years, there has been a small drop in bus usage and a small increase in train usage resulting in total public transport usage remaining static.

Table 6: Million public transport trip legs per year (ages 5+)

| Million trip | 1989 | 1997 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| legs per year | $/ 90$ | 198 | -06 | -07 | -08 | -09 | -10 | -11 | -12 | -13 | -14 |  |
| Public |  |  |  |  |  |  |  |  |  |  |  |  |
| transport |  |  |  |  |  |  |  |  |  |  |  |  |
| - bus | 121 | 130 | 144 | 140 | 132 | 135 | 140 | 147 | 142 | 137 | 136 |  |
| - train | 12 | 14 | 19 | 19 | 18 | 18 | 18 | 17 | 15 | 19 | 21 |  |
| - ferry | $*$ | $*$ | $*$ | $*$ | $*$ | $*$ | $*$ | 4 | 5 | 6 | 5 |  |
| Total Public | 135 | 146 | 168 | 165 | 158 | 160 | 164 | 168 | 162 | 162 | 161 |  |
| Transport |  |  |  |  |  |  |  |  |  |  |  |  |

Figure 8: Public transport trips


Note: bars are shaded where sample sizes are too small for good estimates

## Glossary

| Driver | In this fact sheet includes all drivers of private light 4 wheeled vehicles |
| :--- | :--- |
|  | such as cars, utes, vans, SUVs. |
| Light four-wheeled vehicle | Includes cars, vans, utes and SUVs. Excludes trucks, trailers, |
|  | motorcycles, buses and tractors. Taxis are also excluded. |
| Passenger | Passenger in a private vehicle (car, van, ute, SUV, truck). Passengers |
| in buses, trains and taxis are coded under those categories. Aircraft |  |
| and boat passengers are included in the 'Other' category. |  |

example, driving from home to work with a stop at a shop, is two trip legs; one ending at the shop and one ending at work. This does not include trips where people walk less than 100 metres without crossing a road, trips on private property that start and end at the same place without crossing a road, and off-road round trips.

## Trip purposes I destinations

Ute

Walk

Return home includes any trip to the home address or any trip returning to the place they are going to spend the night.

Work includes travel to main place of work and travel to any other jobs.

Employer's business: includes work-related travel other than to and from work (for example, travelling to meetings or clients).

Education is for travel by students only and includes institutions such as primary and secondary schools, and universities. It does not include preschool education such as kindergarten, Play centre, crèche, kōhanga reo etc which are included under social visit/entertainment, as per the Statistics NZ Time Use Surveys of 1998/1999 and 2009/2010.

Shopping is entering any premises that sells goods or hires them for money. A purchase need not be made.

Social visit/entertainment includes entertainment in a public or private place for example, eating out at a restaurant or food court, picnics.

Recreational includes active or passive participation in sporting activities and travel for which the main goal is exercise.

Personal business includes stops made to transact personal business where no goods were involved. This includes stops made for medical or dental needs and for dealing with government agencies involved with social welfare.

Accompany or transport someone covers when the reason of the travel is to go somewhere for someone else's purpose.

Change mode of travel covers when the purpose of the stop was only to change to another mode of transport.

Utility vehicle; a light flatbed truck weighing up to 3.5 tonnes. Typically based on a car or van model with a front cab and a flatbed instead of rear seats or luggage space.

Includes walkers, joggers, users of mobility scooters and children on tricycles.


[^0]:    ${ }^{1}$ Prior to July 2008, 2,200 households per year were sampled.
    ${ }^{2}$ Professional driver trips are those done to transport goods or people as a professional eg courier trips, taxi drivers trips, bus driver trips, paper route delivery trips.

[^1]:    ${ }^{3}$ May not exactly add to Total due to rounding.

