

Smoking Prevalence Rates Census 2006

**Public Health Intelligence
Ministry of Health**

**District Health Board Report
Tairāwhiti**

Introduction

The following report presents estimates of smoking prevalence in your District Health Board from the Census 2006. These tables will be placed on PHI online www.phionline.moh.govt.nz and will be available in early 2008. Information from the Year 10 survey and data from the Quitline around usage and providers is currently available on PHI online.

PHI is also currently looking into statistical modelling techniques to provide estimates of prevalence using the NZTUS and the Census for years to come and for indicators not measured by the Census.

If you have any queries about your report, please contact:

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The Census 2006

The census 2006 is the most representative and accurate data for the prevalence of smoking. Currently, this is the only data that provides representative breakdowns of smoking rates by DHB.

Notes on definitions

Two questions were asked in the Census (1996) to determine smoking status (note: these questions were not asked in the 2001 Census):

1. Do you smoke cigarettes regularly?
2. Have you ever been a regular smoker of one or more cigarettes a day?

Smoking of pipes, cigars and cigarillos, other smoked substances such as marijuana and tobacco used for chewing are not included in these definitions.

Non-response rates

The 2006 Census reported a non-response rate of 5.2%; the 1996 Census reported a non-response rate of 7.2%.

Prevalence of Smoking (Census 1996)

The prevalence of smoking reported in the 1996 Census, is as follows: Regular smokers, 23.7%; ex-smokers, 22.0%; never smoked regularly, 54.2%.

Prevalence of Smoking (Census 2006)

The prevalence of smoking reported in the 2006 Census, is as follows: Regular smokers, 20.7%; ex-smokers, 22.1%; never smoked regularly, 57.2%. Further breakdowns of the 2006 Census are presented below.

Table 1: Comparison of regular smokers, ex-smokers and never smoked regularly smokers (%) across all DHBs, 15+ years.

| DHB | Regular smokers | Ex-smokers | Never smoked regularly |
|--------------------|------------------------|-------------------|-------------------------------|
| Auckland | 16.5% | 18.4% | 65.1% |
| Bay of Plenty | 22.3% | 25.4% | 52.3% |
| Canterbury | 18.8% | 22.8% | 58.4% |
| Capital and Coast | 17.3% | 22.2% | 60.5% |
| Counties Manukau | 22.1% | 17.0% | 60.8% |
| Hawke's Bay | 24.8% | 24.2% | 51.0% |
| Hutt Valley | 22.9% | 22.4% | 54.7% |
| Lakes | 27.2% | 23.8% | 49.0% |
| Midcentral | 22.7% | 22.2% | 55.2% |
| Nelson Marlborough | 19.3% | 26.3% | 54.4% |
| Northland | 25.7% | 25.6% | 48.7% |
| Otago | 19.4% | 23.4% | 57.2% |
| South Canterbury | 21.2% | 24.8% | 54.0% |
| Southland | 23.8% | 23.4% | 52.8% |
| Tairāwhiti | 29.7% | 22.3% | 48.0% |
| Taranaki | 22.4% | 23.5% | 54.1% |
| Waikato | 22.6% | 22.1% | 55.3% |
| Wairarapa | 23.5% | 26.4% | 50.1% |
| Waitemata | 17.4% | 21.8% | 60.8% |
| West Coast | 25.7% | 24.3% | 50.0% |
| Whanganui | 26.3% | 23.3% | 50.4% |
| New Zealand | 20.7% | 22.1% | 57.2% |

The prevalence of regular smokers in Tairāwhiti DHB is 29.7%; this is higher than the New Zealand prevalence of 20.7%.

Regular smokers:

The definition of a *regular smoker* used for the census is someone who smokes cigarettes regularly ie. one or more cigarettes a day.

Table 2: Prevalence of regular smokers (%), by gender and age group

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| 15-19 years | 31.6% | 25.9% | 29.0% | 18.8% |
| 20-24 years | 47.8% | 42.4% | 45.6% | 29.8% |
| 25-29 years | 41.5% | 39.2% | 40.5% | 28.6% |
| 30-39 years | 38.5% | 38.5% | 38.5% | 25.6% |
| 40-49 years | 35.4% | 32.0% | 33.7% | 23.3% |
| 50-59 years | 28.6% | 26.6% | 27.8% | 18.7% |
| 60-64 years | 17.3% | 21.3% | 19.4% | 15.2% |
| 65+ years | 9.7% | 10.8% | 9.8% | 8.0% |
| Tairawhiti total | 30.4% | 28.9% | 29.7% | |
| NZ total | 19.5% | 21.9% | | 20.7% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

The percentage of regular smokers who are female is higher than regular smokers who are male in Tairawhiti DHB. High rates of smoking are observed among 20-39 year olds, with particularly high smoking rates among 20-24 year olds.

Table 3: Prevalence of regular smokers 15+ years (%), by gender and ethnicity

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| European | 22.1% | 23.4% | 22.7% | 19.4% |
| Maori | 47.1% | 39.5% | 43.6% | 42.2% |
| Pacific peoples | 31.1% | 40.7% | 35.9% | 30.3% |
| Asian | 8.4% | 25.3% | 17.1% | 11.1% |
| MELAA | - | - | - | 15.1% |
| Other ethnicity | 17.2% | 19.3% | 18.2% | 16.6% |
| Tairawhiti total | 30.4% | 28.9% | 29.7% | |
| NZ total | 19.5% | 21.9% | | 20.7% |

Notes: Ethnicity presented is based on grouped total response
MELAA stands for Middle Eastern, Latin American, African

Higher rates of smoking are observed among Maori (43.6%) and Pacific peoples (35.9%) in this DHB compared to other ethnicities. Consistent with national patterns of prevalence, the percentage of Maori females who regularly smoke is higher than Maori males; the percentage of Pacific males who regularly smoke is higher than Pacific females.

Table 4: Prevalence of regular smokers (%), by age group and ethnicity

| | European | Maori | Pacific peoples | Asian | MELAA | Other ethnicity | Tairāwhiti total | NZ total |
|------------------|----------|-------|-----------------|-------|-------|-----------------|------------------|----------|
| 15-19 years | 20.4% | 38.2% | 27.3% | - | - | 18.4% | 29.0% | 18.8% |
| 20-24 years | 35.5% | 57.3% | 68.4% | - | - | 28.2% | 45.6% | 29.8% |
| 25-29 years | 34.8% | 49.0% | 35.7% | - | - | 22.4% | 40.5% | 28.6% |
| 30-39 years | 29.5% | 52.5% | 42.9% | 24.3% | - | 25.2% | 38.5% | 25.6% |
| 40-49 years | 27.3% | 47.5% | 36.6% | 17.6% | - | 20.2% | 33.7% | 23.3% |
| 50-59 years | 23.5% | 38.8% | 47.1% | 35.3% | - | 18.3% | 27.8% | 18.7% |
| 60-64 years | 16.1% | 28.0% | - | - | - | 15.0% | 19.4% | 15.2% |
| 65+ years | 8.4% | 16.8% | - | - | - | 4.4% | 9.8% | 8.0% |
| Tairāwhiti total | 22.7% | 43.6% | 35.9% | 17.1% | - | 18.2% | 29.7% | |
| NZ total | 19.4% | 42.2% | 30.3% | 11.1% | 15.1% | 16.6% | | 20.7% |

Notes: Tairāwhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Table 5: Prevalence of regular smokers (%), by ethnicity, gender and age group

| | European | | Maori | | Pacific peoples | | Asian | | MELAA | | Other ethnicity | | Taira- whiti total | NZ total |
|---------------------|----------|-------|---------|-------|-----------------|-------|---------|-------|---------|-------|-----------------|-------|--------------------------|----------|
| | females | males | females | males | females | males | females | males | females | males | females | males | | |
| 15-19 years | 22.1% | 19.0% | 42.7% | 33.9% | - | - | - | - | - | - | - | 22.2% | 29.0% | 18.8% |
| 20-24 years | 36.8% | 35.3% | 61.1% | 53.0% | - | - | - | - | - | - | - | 37.5% | 45.6% | 29.8% |
| 25-29 years | 33.7% | 35.1% | 51.3% | 46.1% | 45.5% | 50.0% | - | - | - | - | 25.0% | | 40.5% | 28.6% |
| 30-39 years | 27.2% | 32.2% | 55.8% | 47.7% | 28.0% | 48.0% | - | 35.7% | - | - | 22.9% | 28.6% | 38.5% | 25.6% |
| 40-49 years | 27.0% | 27.3% | 52.8% | 41.0% | 29.4% | 42.9% | - | 50.0% | - | - | 15.7% | 21.6% | 33.7% | 23.3% |
| 50-59 years | 23.6% | 23.6% | 41.6% | 36.1% | - | 35.3% | - | - | - | - | 20.2% | 16.8% | 27.8% | 18.7% |
| 60-64 years | 14.5% | 18.3% | 26.3% | 32.1% | - | - | - | - | - | - | - | 12.5% | 19.4% | 15.2% |
| 65+ years | 7.4% | 9.5% | 18.2% | 14.5% | - | - | - | - | - | - | - | 7.2% | 9.8% | 8.0% |
| Tairawhiti total | 22.1% | 23.4% | 47.1% | 39.5% | 31.1% | 40.7% | 8.4% | 25.3% | - | - | 17.2% | 19.3% | 29.7% | |
| NZ total | 18.6% | 20.3% | 45.5% | 38.5% | 27.3% | 33.5% | 4.8% | 18.1% | 9.6% | 20.3% | 15.8% | 17.4% | | 20.7% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

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Ex-smokers:

An *ex-smoker* is defined as someone who used to smoke regularly, but no longer does

Table 6: Prevalence of ex-smokers (%), by gender and age group

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| 15-19 years | 6.5% | 3.7% | 5.0% | 4.6% |
| 20-24 years | 12.5% | 8.7% | 10.8% | 11.3% |
| 25-29 years | 17.0% | 11.5% | 14.6% | 16.2% |
| 30-39 years | 22.0% | 16.7% | 19.5% | 19.1% |
| 40-49 years | 23.3% | 24.1% | 23.7% | 22.3% |
| 50-59 years | 27.5% | 30.2% | 28.6% | 27.6% |
| 60-64 years | 26.1% | 34.0% | 30.1% | 32.9% |
| 65+ years | 24.9% | 43.9% | 33.3% | 35.1% |
| Tairawhiti total | 21.4% | 23.3% | 22.3% | |
| NZ total | 20.3% | 23.9% | | 22.1% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

The prevalence of ex-smokers in Tairawhiti DHB is 22.3%, comparable to the national prevalence of ex-smokers, 22.1%. Higher percentages of ex-smokers are aged 50 years and over. The percentage of male ex-smokers is higher than female ex-smokers in older age groups.

Table 7: Prevalence of ex-smokers 15 + years (%), by gender and ethnicity

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| European | 23.1% | 26.2% | 24.5% | 24.5% |
| Maori | 19.1% | 18.2% | 18.7% | 19.1% |
| Pacific peoples | 17.9% | 15.0% | 16.6% | 10.8% |
| Asian | 6.0% | 12.0% | 8.9% | 7.2% |
| MELAA | - | - | - | 12.8% |
| Other ethnicity | 25.9% | 27.8% | 26.9% | 26.5% |
| Tairawhiti total | 21.4% | 23.3% | 22.3% | |
| NZ total | 20.3% | 23.9% | | 22.1% |

Notes: Ethnicity presented is based on grouped total response
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Higher prevalences of ex-smokers are observed among European (24.5%) and Other ethnic groups (26.9%) in Tairawhiti DHB.

Table 8: Prevalence of ex-smokers (%), by age group and ethnicity

| | European | Maori | Pacific peoples | Asian | MELAA | Other ethnicity | Tairawhiti total | NZ total |
|------------------|----------|-------|-----------------|-------|-------|-----------------|------------------|----------|
| 15-19 years | 4.3% | 6.6% | - | - | - | - | 5.0% | 4.6% |
| 20-24 years | 12.7% | 9.5% | - | - | - | - | 10.8% | 11.3% |
| 25-29 years | 19.3% | 12.1% | 21.4% | - | - | 17.2% | 14.6% | 16.2% |
| 30-39 years | 22.3% | 16.6% | 14.3% | - | - | 23.3% | 19.5% | 19.1% |
| 40-49 years | 24.6% | 23.8% | 22.0% | - | - | 27.3% | 23.7% | 22.3% |
| 50-59 years | 29.1% | 27.7% | - | - | - | 33.2% | 28.6% | 27.6% |
| 60-64 years | 30.7% | 31.1% | - | - | - | 28.8% | 30.1% | 32.9% |
| 65+ years | 34.9% | 30.1% | - | - | - | 34.3% | 33.3% | 35.1% |
| Tairawhiti total | 24.5% | 18.7% | 16.6% | 8.9% | - | 26.9% | 22.3% | |
| NZ total | 24.5% | 19.1% | 10.8% | 7.2% | - | 26.5% | | 22.1% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Table 9: Prevalence of ex-smokers (%), by ethnicity, gender and age group

| | European | | Maori | | Pacific peoples | | Asian | | MELAA | | Other ethnicity | | Taira- whiti total | NZ total |
|------------------|----------|-------|---------|-------|-----------------|-------|---------|-------|---------|-------|-----------------|-------|--------------------------|----------|
| | females | males | females | males | females | males | females | males | females | males | females | males | | |
| 15-19 years | 6.2% | 2.6% | 7.8% | 4.9% | 29.4% | - | - | - | - | - | - | - | 5.0% | 4.6% |
| 20-24 years | 14.0% | 9.0% | 10.4% | 7.1% | - | - | - | - | - | - | 27.8% | - | 10.8% | 11.3% |
| 25-29 years | 21.7% | 15.9% | 14.6% | 7.9% | - | - | - | - | - | - | 17.9% | 22.7% | 14.6% | 16.2% |
| 30-39 years | 25.9% | 18.3% | 19.0% | 13.2% | 20.0% | - | - | - | - | - | 26.5% | 20.8% | 19.5% | 19.1% |
| 40-49 years | 24.4% | 24.8% | 22.4% | 25.5% | 35.3% | 23.8% | - | - | - | - | 28.7% | 25.6% | 23.7% | 22.3% |
| 50-59 years | 27.6% | 30.8% | 26.9% | 28.9% | - | 29.4% | - | - | - | - | 32.1% | 33.6% | 28.6% | 27.6% |
| 60-64 years | 28.5% | 33.1% | 26.3% | 34.6% | - | - | - | - | - | - | 24.2% | 42.5% | 30.1% | 32.9% |
| 65+ years | 24.9% | 48.1% | 27.3% | 35.5% | - | - | - | - | - | - | 27.5% | 44.9% | 33.3% | 35.1% |
| Tairawhiti total | 23.1% | 26.2% | 19.1% | 18.2% | 17.9% | 15.0% | 6.0% | 12.0% | - | - | 25.9% | 27.8% | 22.3% | |
| NZ total | 22.8% | 26.5% | 19.7% | 18.3% | 10.4% | 11.3% | 3.9% | 11.0% | 9.8% | 15.6% | 24.9% | 27.9% | | 22.1% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

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Boxes with dashes represent rates that have been suppressed due to counts less than 15

People who have never smoked regularly:

The definition for *never smoked regularly* are people who have never been regular smokers

Table 10: Prevalence of never smokers (%), by gender and age group

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| 15-19 years | 61.9% | 70.4% | 66.0% | 76.7% |
| 20-24 years | 39.7% | 48.9% | 43.5% | 58.8% |
| 25-29 years | 41.5% | 49.4% | 44.9% | 55.2% |
| 30-39 years | 39.5% | 44.7% | 42.0% | 55.3% |
| 40-49 years | 41.3% | 44.0% | 42.5% | 54.5% |
| 50-59 years | 43.8% | 43.2% | 43.6% | 53.7% |
| 60-64 years | 56.5% | 44.7% | 50.5% | 51.8% |
| 65+ years | 65.3% | 45.3% | 56.9% | 56.9% |
| Tairawhiti total | 48.2% | 47.8% | 48.0% | |
| NZ total | 60.1% | 54.1% | | 57.2% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

The prevalence of people who have never smoked regularly in Tairawhiti DHB is 48.0%. The percentage of females who have never smoked regularly is comparable to males. Encouragingly, higher percentages of young people aged 15 to 19 years have never smoked regularly, compared to older age groups.

Table 11: Prevalence of never smokers (%), by gender and ethnicity

| | Females | Males | Tairawhiti total | NZ total |
|------------------|---------|-------|------------------|----------|
| European | 54.8% | 50.4% | 52.8% | 56.1% |
| Maori | 33.8% | 42.3% | 37.7% | 38.7% |
| Pacific peoples | 50.9% | 44.2% | 47.5% | 59.0% |
| Asian | 85.5% | 62.7% | 74.1% | 81.7% |
| MELAA | - | - | - | 72.1% |
| Other ethnicity | 56.9% | 52.9% | 54.9% | 56.9% |
| Tairawhiti total | 48.2% | 47.8% | 48.0% | |
| NZ total | 60.1% | 54.1% | | 57.2% |

Notes: Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Higher percentages of never smokers are observed among Asian ethnic groups. Maori have the lowest percentage of people who have never smoked regularly.

Table 12: Prevalence of never smokers (%), by age group and ethnicity

| | European | Maori | Pacific peoples | Asian | MELAA | Other ethnicity | Tairāwhiti total | NZ total |
|------------------|----------|-------|-----------------|-------|-------|-----------------|------------------|----------|
| 15-19 years | 75.2% | 55.3% | 72.7% | - | - | 81.6% | 66.0% | 76.7% |
| 20-24 years | 51.8% | 33.2% | 31.6% | - | - | 53.8% | 43.5% | 58.8% |
| 25-29 years | 45.8% | 38.9% | 42.9% | - | - | 60.3% | 44.9% | 55.2% |
| 30-39 years | 48.2% | 30.9% | 42.9% | 75.7% | - | 51.5% | 42.0% | 55.3% |
| 40-49 years | 48.1% | 28.7% | 41.5% | 82.4% | - | 52.5% | 42.5% | 54.5% |
| 50-59 years | 47.4% | 33.5% | 52.9% | 64.7% | - | 48.5% | 43.6% | 53.7% |
| 60-64 years | 53.2% | 41.0% | - | - | - | 56.3% | 50.5% | 51.8% |
| 65+ years | 56.6% | 53.1% | - | - | - | 61.3% | 56.9% | 56.9% |
| Tairāwhiti total | 52.8% | 37.7% | 47.5% | 74.1% | - | 54.9% | 48.0% | |
| NZ total | 56.1% | 38.7% | 59.0% | 81.7% | 72.1% | 56.9% | | 57.2% |

Notes: Tairāwhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Table 13: Prevalence of never smokers (%), by ethnicity, gender and age group

| | European | | Maori | | Pacific peoples | | Asian | | MELAA | | Other Ethnicity | | Taira- whiti total | NZ total |
|---------------------|----------|-------|---------|-------|-----------------|-------|---------|-------|---------|-------|-----------------|-------|--------------------------|----------|
| | females | males | females | males | females | males | females | males | females | males | females | males | | |
| 15-19 years | 71.7% | 78.4% | 49.5% | 61.2% | 70.6% | - | - | - | - | - | - | 77.8% | 66.0% | 76.7% |
| 20-24 years | 49.1% | 55.8% | 28.5% | 39.9% | - | - | - | - | - | - | 72.2% | 62.5% | 43.5% | 58.8% |
| 25-29 years | 44.6% | 49.0% | 34.2% | 46.1% | 54.5% | 50.0% | - | - | - | - | 57.1% | 77.3% | 44.9% | 55.2% |
| 30-39 years | 46.9% | 49.5% | 25.2% | 39.1% | 52.0% | 52.0% | - | 64.3% | - | - | 50.6% | 50.6% | 42.0% | 55.3% |
| 40-49 years | 48.5% | 47.9% | 24.8% | 33.5% | 35.3% | 33.3% | - | 50.0% | - | - | 55.7% | 52.8% | 42.5% | 54.5% |
| 50-59 years | 48.8% | 45.7% | 31.5% | 35.0% | - | 35.3% | - | - | - | - | 47.7% | 49.6% | 43.6% | 53.7% |
| 60-64 years | 57.0% | 48.5% | 47.5% | 33.3% | - | - | - | - | - | - | 75.8% | 45.0% | 50.5% | 51.8% |
| 65+ years | 67.8% | 42.4% | 54.5% | 50.0% | - | - | - | - | - | - | 72.5% | 47.8% | 56.9% | 56.9% |
| Tairawhiti total | 54.8% | 50.4% | 33.8% | 42.3% | 50.9% | 44.2% | 85.5% | 62.7% | - | - | 56.9% | 52.9% | 48.0% | |
| NZ total | 58.6% | 53.3% | 34.7% | 43.2% | 62.4% | 55.3% | 91.2% | 70.9% | 80.6% | 64.1% | 59.3% | 54.7% | | 57.2% |

Notes: Tairawhiti and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15