



National  
Cervical  
Screening  
Programme

# **NCSP New Zealand Waikato District Health Board Coverage Report**

For the period ending  
31 December 2018

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## Introduction

Well-organised cervical cancer screening programmes can significantly reduce the incidence and mortality of the disease. The National Cervical Screening Programme (NCSP) was established in New Zealand in 1990, and since that time, the number of women who develop cervical cancer, and the number of women who die from it, has reduced by 60 percent. Having regular cervical smear tests continues to be a woman's best protection against the development of invasive cervical cancer.

One of the main performance measures of NCSP is coverage. Coverage is defined as the proportion of women eligible for screening who have been screened in the previous three years. Our target is to reach 80 percent screening coverage for all eligible women. While we have met this target nationally for European/ Other women, coverage rates for Maori, and Asian women remain at under 70 percent.

The incidence of cervical cancer among Māori, Pacific and Asian women remains higher than that among European/Other ethnicities. One of the primary reasons for this is lower rates of screening coverage among these groups.

This NCSP District Health Board Coverage Report is intended to support those working in increasing coverage and improving equity in cervical screening. Tihei mauri ora!

## Technical notes

The data for the period ending 31 December 2018 was extracted from the Ministry of Health NCSP Datamart on 24 January 2019.

Screened women (the ‘numerator’) are included in the coverage calculations based on their age at the end of the monitoring period. This means that coverage for women aged 25-69 years includes women who were aged 22, 23 or 24 at the start of the monitoring period. Since February 2016 the ethnicity and domicile of a screened woman is that recorded on the Ministry of Health’s National Health Index (NHI). Prior to this date, demographic information was obtained from the NCSP Register. The impact of this change can be found in the comparison document re: December 2015 coverage: <https://www.nsu.govt.nz/health-professionals/national-cervical-screening-programme/cervical-screening-coverage>

Any time series data produced from February 2016 will use demographic information from the NHI across all time periods.

For both women screened and in the denominator, women have been prioritised to a single ethnicity using the following priority order: Māori, Pacific, Asian, European/Other. This means that if a woman chooses more than one category, and one of these is Māori, she is counted as Māori. The ethnicity recorded on the Ministry of Health’s National Health Index has been used for any screened woman with no ethnicity recorded on the Register.

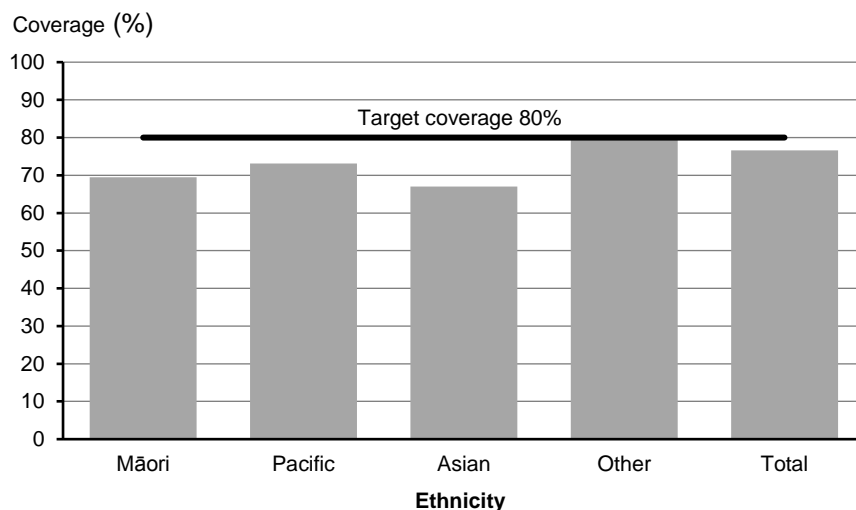
The denominators used for calculating coverage are derived from Statistics New Zealand’s District Health Board (DHB) population projections 30 June 2017 update based on the 2013 Census. The population update may result in changes to historic denominators (from the last census year to the date of this report), this means that the denominators in this report may differ from those published in previous years. The population projections have been adjusted for the prevalence of hysterectomy.

Additional detail on the methodology can be obtained via a request made to [screening@moh.govt.nz](mailto:screening@moh.govt.nz).

## Waikato coverage

### Waikato coverage by ethnicity in the three years ending 31 December 2018

**Figure 1: NCSP coverage (%) in the three years ending 31 December 2018 by ethnicity, women aged 25–69 years, Total Coverage**



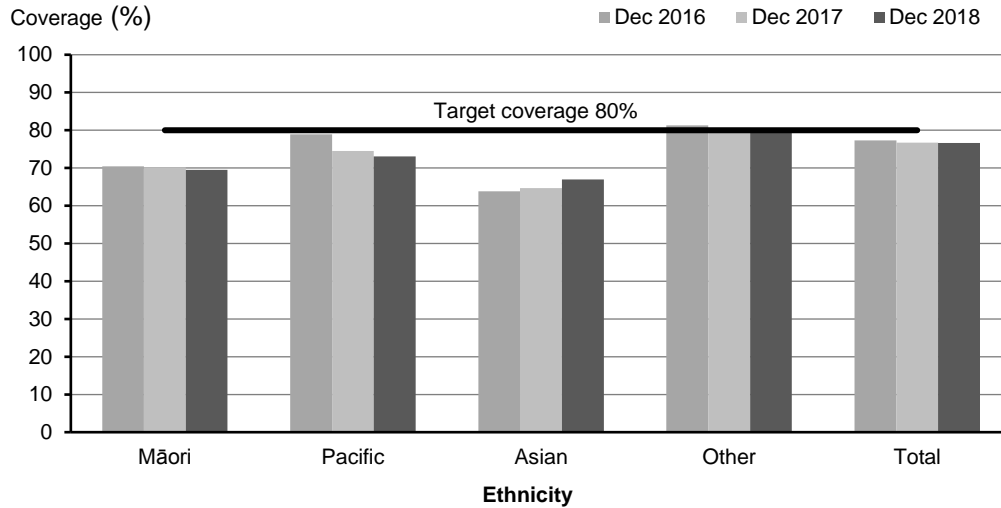
**Table 1: NCSP coverage (%) in the three years ending 31 December 2018 by ethnicity, women aged 25–69 years, Total Coverage**

| Ethnicity    | Population     | Women screened in last 3 years | 3-year coverage | Additional screens to reach target* |
|--------------|----------------|--------------------------------|-----------------|-------------------------------------|
| Māori        | 20,705         | 14,385                         | 69.50%          | 2,179                               |
| Pacific      | 2,821          | 2,061                          | 73.10%          | 195                                 |
| Asian        | 11,776         | 7,887                          | 67.00%          | 1,533                               |
| Other        | 68,871         | 55,450                         | 80.50%          |                                     |
| <b>Total</b> | <b>104,173</b> | <b>79,783</b>                  | <b>76.60%</b>   | <b>3,555</b>                        |

\*For the total population the number of additional screens is the number required to move from the total population coverage to 80%. This may not be the same as the sum of additional screens required for each ethnic group to reach 80%.

## Waikato coverage trends by ethnicity

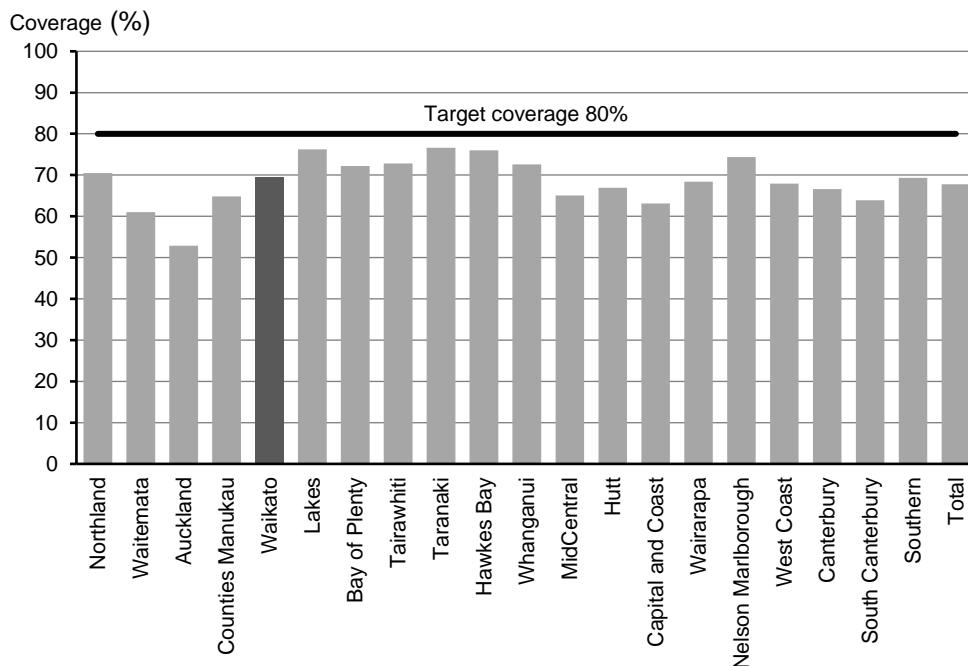
**Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by ethnicity, Total Coverage**



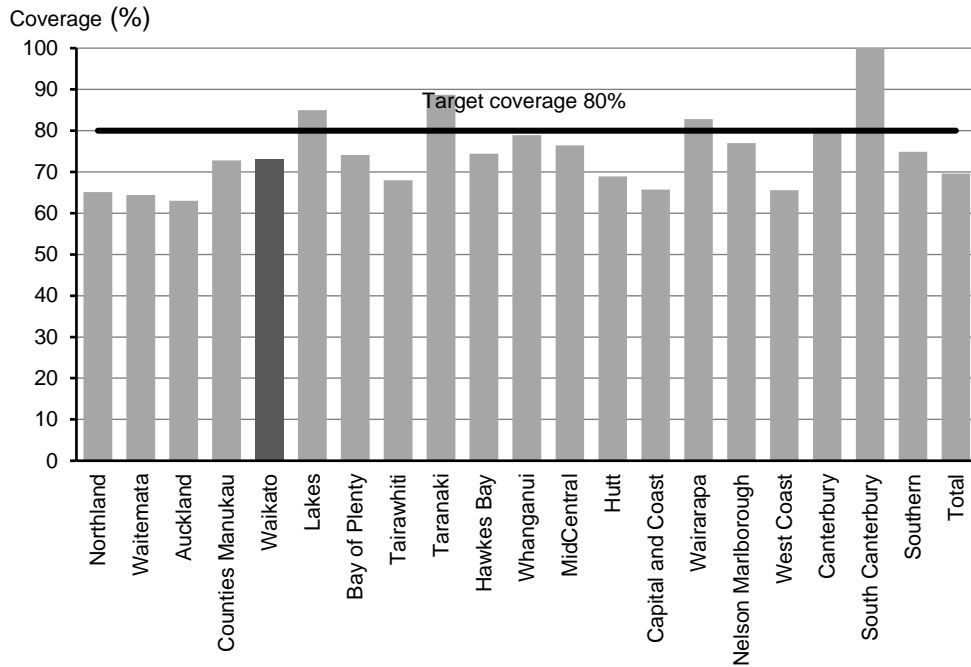
## DHB coverage comparisons

### DHB coverage by ethnicity in the three years ending 31 December 2018

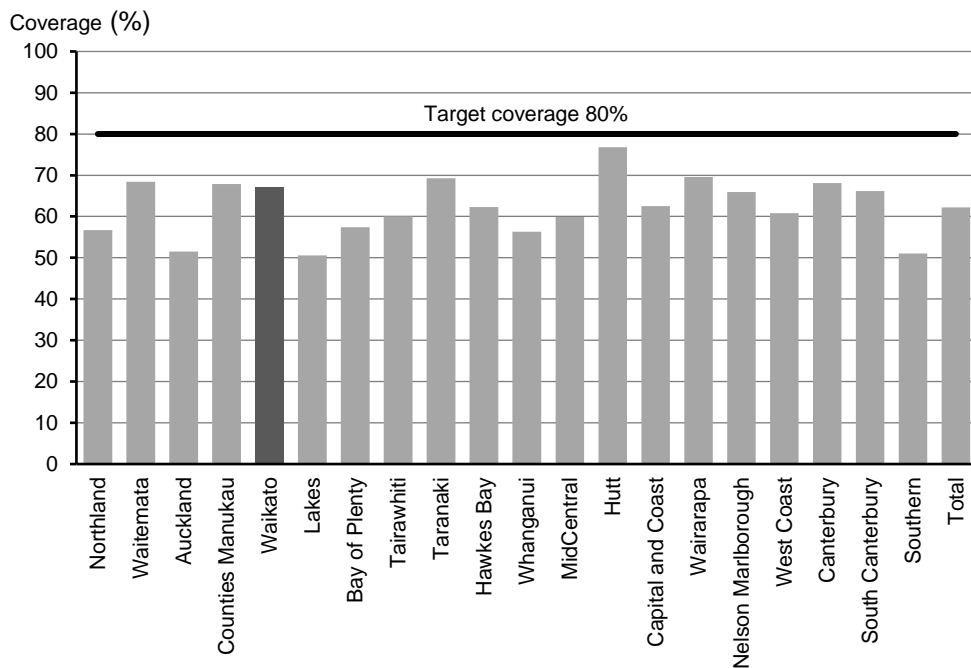
**Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**



**Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**

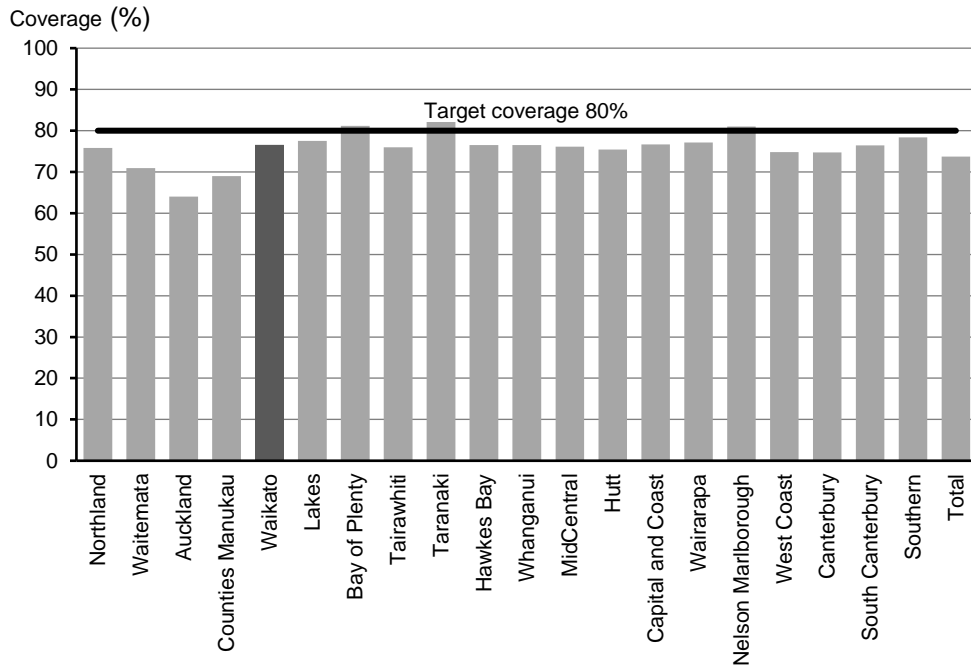


**Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**

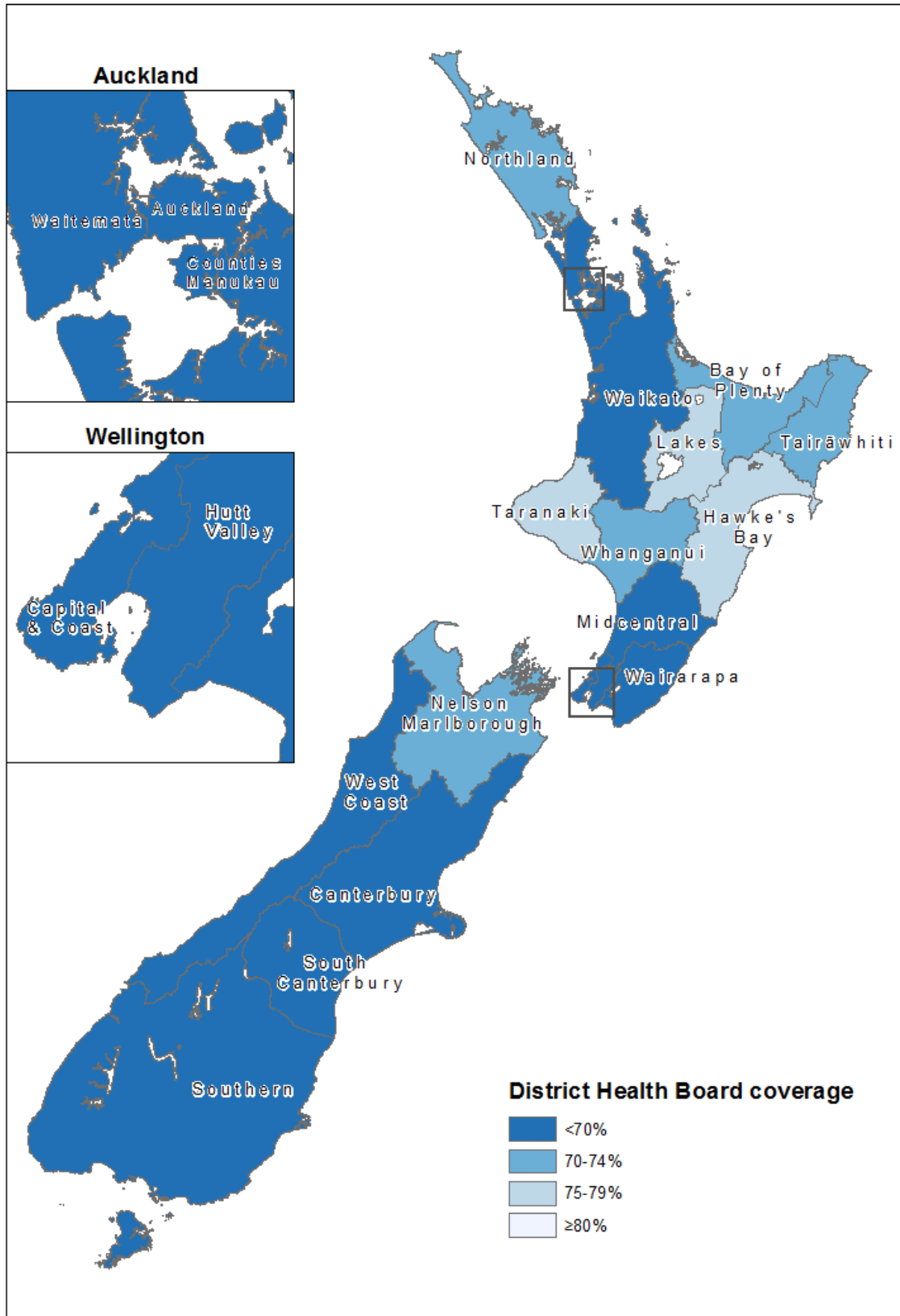




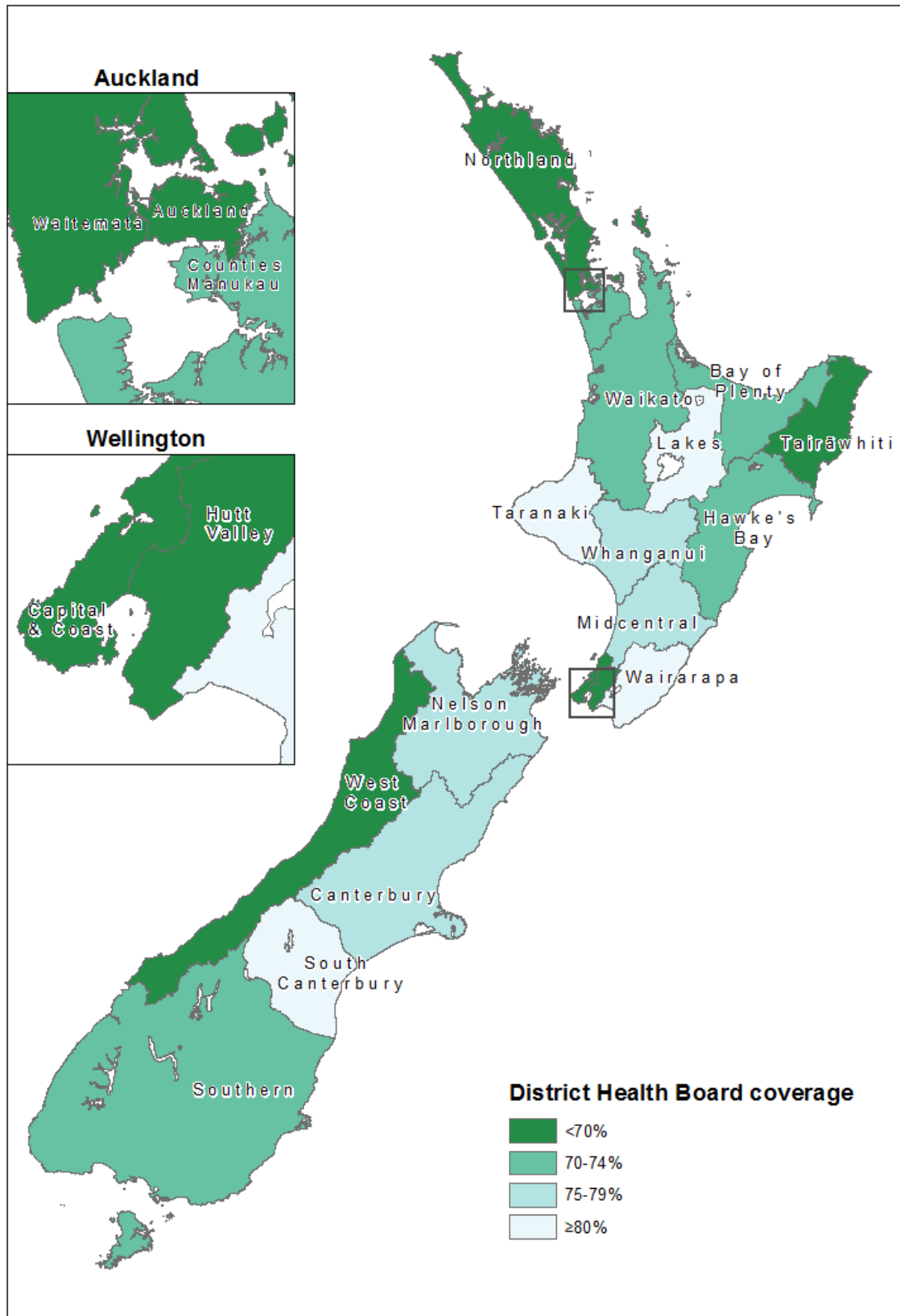
**Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**



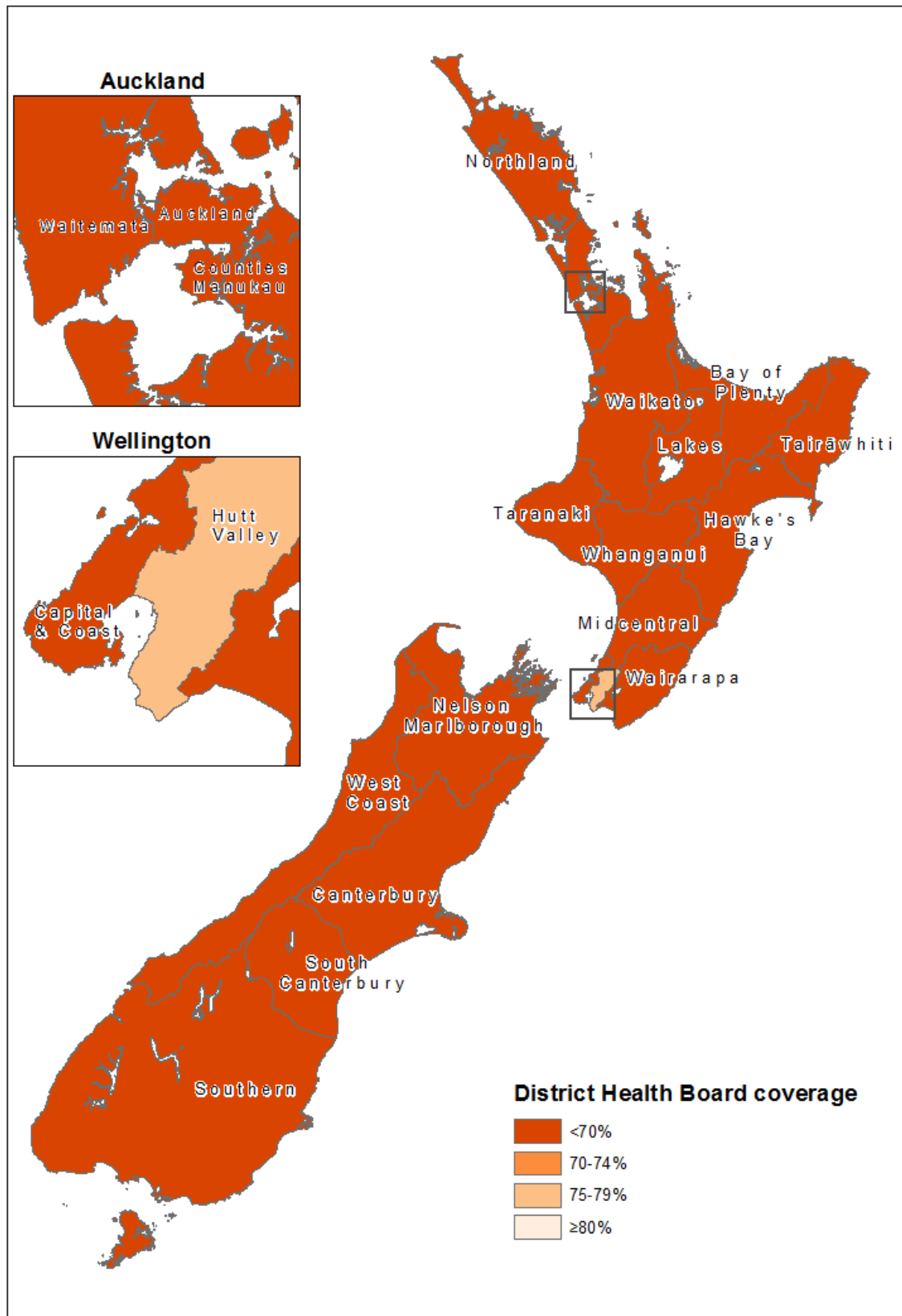
**Figure 7: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2018**



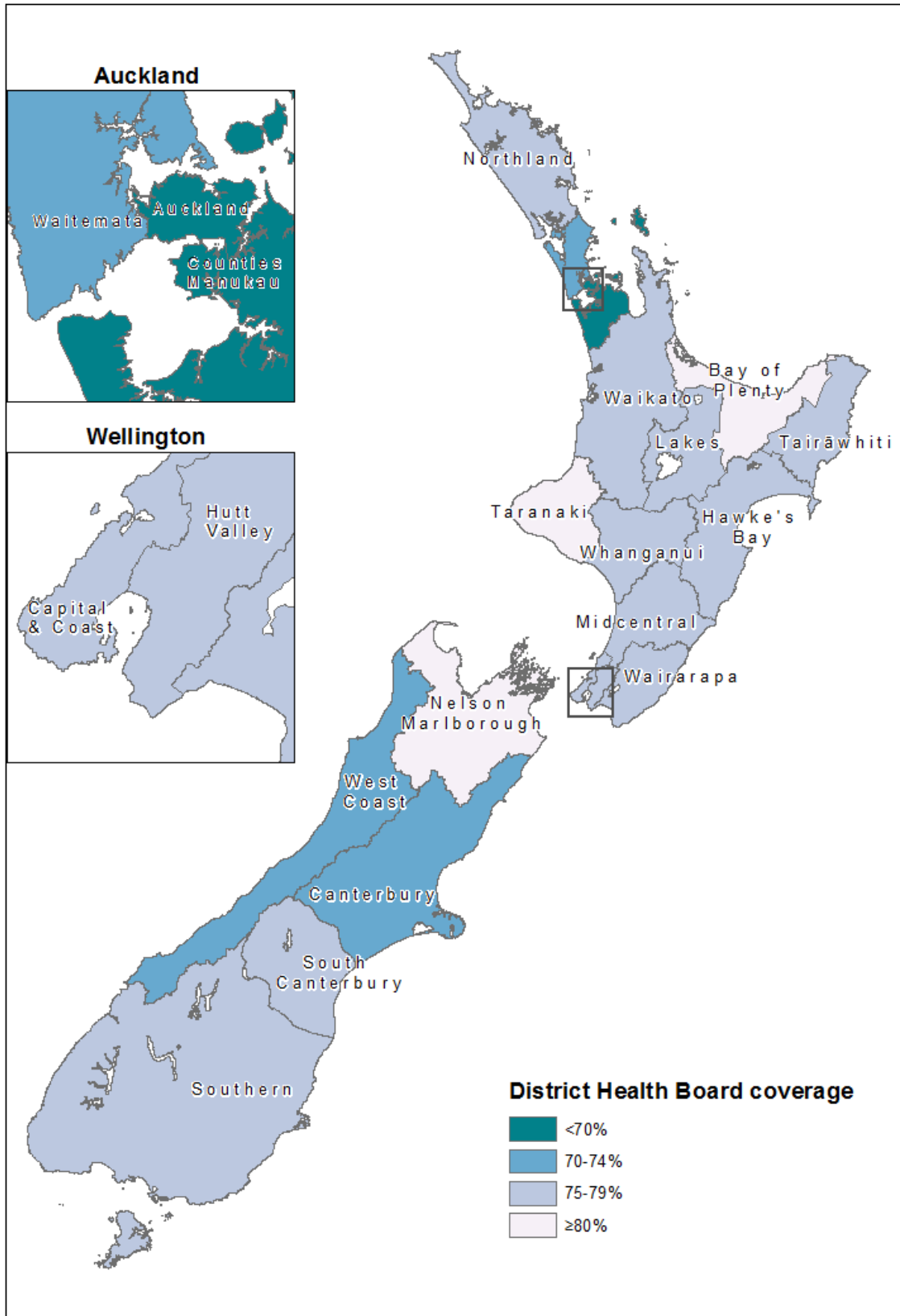
**Figure 8: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2018**



**Figure 9: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**



**Figure 10: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**



**Table 2: NCSP number of screens and coverage (%) in women aged 25–69 years in the three years ending 31 December 2018 by District Health Board**

| DHB                | Eligible Population |               |                |                |                  | Screens        |               |                |                |                | Coverage     |              |              |              |              |
|--------------------|---------------------|---------------|----------------|----------------|------------------|----------------|---------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|
|                    | Māori               | Pacific       | Asian          | Other          | Total            | Māori          | Pacific       | Asian          | Other          | Total          | Māori        | Pacific      | Asian        | Other        | Total        |
| Northland          | 13,342              | 812           | 2,366          | 27,346         | 43,866           | 9,405          | 529           | 1,342          | 21,953         | 33,229         | 70.5%        | 65.1%        | 56.7%        | 80.3%        | 75.8%        |
| Waitemata          | 13,629              | 10,476        | 42,734         | 103,011        | 169,850          | 8,308          | 6,745         | 29,251         | 76,119         | 120,423        | 61.0%        | 64.4%        | 68.4%        | 73.9%        | 70.9%        |
| Auckland           | 10,867              | 14,098        | 56,527         | 74,466         | 155,958          | 5,753          | 8,880         | 29,089         | 56,151         | 99,873         | 52.9%        | 63.0%        | 51.5%        | 75.4%        | 64.0%        |
| Counties Manukau   | 19,948              | 27,944        | 42,597         | 57,121         | 147,610          | 12,925         | 20,337        | 28,920         | 39,706         | 101,888        | 64.8%        | 72.8%        | 67.9%        | 69.5%        | 69.0%        |
| Waikato            | 20,705              | 2,821         | 11,776         | 68,871         | 104,173          | 14,385         | 2,061         | 7,887          | 55,450         | 79,783         | 69.5%        | 73.1%        | 67.0%        | 80.5%        | 76.6%        |
| Lakes              | 8,661               | 555           | 2,871          | 15,748         | 27,835           | 6,604          | 472           | 1,452          | 13,050         | 21,578         | 76.2%        | 85.0%        | 50.6%        | 82.9%        | 77.5%        |
| Bay of Plenty      | 13,075              | 887           | 5,108          | 40,621         | 59,691           | 9,446          | 657           | 2,931          | 35,428         | 48,462         | 72.2%        | 74.1%        | 57.4%        | 87.2%        | 81.2%        |
| Tairāwhiti         | 5,701               | 256           | 400            | 5,714          | 12,071           | 4,148          | 174           | 240            | 4,616          | 9,178          | 72.8%        | 68.0%        | 60.0%        | 80.8%        | 76.0%        |
| Taranaki           | 4,724               | 301           | 1,557          | 23,521         | 30,103           | 3,618          | 267           | 1,079          | 19,739         | 24,703         | 76.6%        | 88.7%        | 69.3%        | 83.9%        | 82.1%        |
| Hawke's Bay        | 9,311               | 1,178         | 2,389          | 28,186         | 41,064           | 7,075          | 877           | 1,489          | 21,957         | 31,398         | 76.0%        | 74.4%        | 62.3%        | 77.9%        | 76.5%        |
| Whanganui          | 3,788               | 324           | 792            | 10,719         | 15,623           | 2,755          | 252           | 446            | 8,482          | 11,935         | 72.7%        | 77.8%        | 56.3%        | 79.1%        | 76.4%        |
| MidCentral         | 7,574               | 1,045         | 4,042          | 31,102         | 43,763           | 4,931          | 798           | 2,423          | 25,145         | 33,297         | 65.1%        | 76.4%        | 59.9%        | 80.8%        | 76.1%        |
| Hutt Valley        | 5,769               | 2,716         | 5,156          | 25,666         | 39,307           | 3,859          | 1,872         | 3,960          | 19,935         | 29,626         | 66.9%        | 68.9%        | 76.8%        | 77.7%        | 75.4%        |
| Capital and Coast  | 8,679               | 5,403         | 14,178         | 56,668         | 84,928           | 5,473          | 3,548         | 8,859          | 47,222         | 65,102         | 63.1%        | 65.7%        | 62.5%        | 83.3%        | 76.7%        |
| Wairarapa          | 1,667               | 169           | 395            | 8,982          | 11,213           | 1,141          | 140           | 275            | 7,093          | 8,649          | 68.4%        | 82.8%        | 69.6%        | 79.0%        | 77.1%        |
| Nelson Marlborough | 3,375               | 491           | 2,132          | 32,423         | 38,421           | 2,510          | 378           | 1,405          | 26,847         | 31,140         | 74.4%        | 77.0%        | 65.9%        | 82.8%        | 81.0%        |
| West Coast         | 893                 | 93            | 347            | 6,980          | 8,313            | 606            | 61            | 211            | 5,338          | 6,216          | 67.9%        | 65.6%        | 60.8%        | 76.5%        | 74.8%        |
| Canterbury         | 10,570              | 2,911         | 16,558         | 113,129        | 143,168          | 7,036          | 2,312         | 11,270         | 86,326         | 106,944        | 66.6%        | 79.4%        | 68.1%        | 76.3%        | 74.7%        |
| South Canterbury   | 1,063               | 121           | 678            | 13,018         | 14,880           | 679            | 124           | 449            | 10,121         | 11,373         | 63.9%        | 102.5%       | 66.2%        | 77.7%        | 76.4%        |
| Southern           | 6,847               | 1,330         | 6,662          | 66,877         | 81,716           | 4,743          | 996           | 3,399          | 54,925         | 64,063         | 69.3%        | 74.9%        | 51.0%        | 82.1%        | 78.4%        |
| <b>National</b>    | <b>170,188</b>      | <b>73,931</b> | <b>219,265</b> | <b>810,169</b> | <b>1,273,553</b> | <b>115,400</b> | <b>51,480</b> | <b>136,377</b> | <b>635,603</b> | <b>938,860</b> | <b>67.8%</b> | <b>69.6%</b> | <b>62.2%</b> | <b>78.5%</b> | <b>73.7%</b> |

## DHB coverage comparison trends by ethnicity

**Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December, 2016, 2017, 2018, by ethnicity and District Health Board**

| DHB                | Māori        |              |              | Pacific      |              |              | Asian        |              |              | Other        |              |              |
|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                    | Dec-16       | Dec-17       | Dec-18       | Dec-16       | Dec-17       | Dec-18       | Dec-16       | Dec-17       | Dec-18       | Dec-16       | Dec-17       | Dec-18       |
| Northland          | 73.3%        | 70.8%        | 70.5%        | 70.6%        | 67.4%        | 65.1%        | 57.3%        | 55.8%        | 56.7%        | 83.7%        | 80.9%        | 80.3%        |
| Waitemata          | 63.1%        | 62.1%        | 61.0%        | 72.3%        | 69.5%        | 64.4%        | 70.7%        | 69.8%        | 68.4%        | 76.5%        | 75.1%        | 73.9%        |
| Auckland           | 56.0%        | 54.4%        | 52.9%        | 68.1%        | 66.1%        | 63.0%        | 54.1%        | 52.1%        | 51.5%        | 75.1%        | 75.1%        | 75.4%        |
| Counties Manukau   | 68.0%        | 66.4%        | 64.8%        | 81.8%        | 78.3%        | 72.8%        | 69.6%        | 68.9%        | 67.9%        | 71.9%        | 70.7%        | 69.5%        |
| Waikato            | 70.4%        | 70.2%        | 69.5%        | 78.9%        | 74.5%        | 73.1%        | 63.8%        | 64.7%        | 67.0%        | 81.3%        | 80.6%        | 80.5%        |
| Lakes              | 72.8%        | 73.7%        | 76.2%        | 77.4%        | 79.4%        | 85.0%        | 49.4%        | 48.5%        | 50.6%        | 82.5%        | 81.9%        | 82.9%        |
| Bay of Plenty      | 72.6%        | 71.9%        | 72.2%        | 73.9%        | 74.5%        | 74.1%        | 57.6%        | 56.2%        | 57.4%        | 89.1%        | 87.8%        | 87.2%        |
| Tairāwhiti         | 71.8%        | 72.2%        | 72.8%        | 66.3%        | 70.0%        | 68.0%        | 57.0%        | 58.8%        | 60.0%        | 81.7%        | 81.7%        | 80.8%        |
| Taranaki           | 76.5%        | 76.3%        | 76.6%        | 79.9%        | 86.1%        | 88.7%        | 68.6%        | 68.7%        | 69.3%        | 84.9%        | 84.5%        | 83.9%        |
| Hawke's Bay        | 76.9%        | 76.7%        | 76.0%        | 73.1%        | 74.5%        | 74.4%        | 62.7%        | 62.8%        | 62.3%        | 80.3%        | 79.1%        | 77.9%        |
| Whanganui          | 73.1%        | 71.1%        | 72.7%        | 72.3%        | 74.1%        | 77.8%        | 58.8%        | 55.3%        | 56.3%        | 82.2%        | 79.8%        | 79.1%        |
| MidCentral         | 65.8%        | 65.3%        | 65.1%        | 74.7%        | 73.5%        | 76.4%        | 58.2%        | 57.4%        | 59.9%        | 81.0%        | 80.1%        | 80.8%        |
| Hutt Valley        | 67.8%        | 65.7%        | 66.9%        | 71.2%        | 67.1%        | 68.9%        | 78.1%        | 77.7%        | 76.8%        | 78.8%        | 77.5%        | 77.7%        |
| Capital and Coast  | 64.1%        | 62.5%        | 63.1%        | 64.3%        | 63.6%        | 65.7%        | 62.4%        | 61.6%        | 62.5%        | 81.1%        | 81.8%        | 83.3%        |
| Wairarapa          | 73.9%        | 72.9%        | 68.4%        | 91.0%        | 87.0%        | 82.8%        | 71.5%        | 69.8%        | 69.6%        | 82.3%        | 80.1%        | 79.0%        |
| Nelson Marlborough | 74.7%        | 74.3%        | 74.4%        | 71.4%        | 73.6%        | 77.0%        | 63.7%        | 65.1%        | 65.9%        | 85.1%        | 83.6%        | 82.8%        |
| West Coast         | 70.0%        | 69.3%        | 67.9%        | 50.0%        | 59.3%        | 65.6%        | 53.7%        | 56.7%        | 60.8%        | 77.5%        | 78.3%        | 76.5%        |
| Canterbury         | 67.5%        | 65.7%        | 66.6%        | 76.4%        | 77.6%        | 79.4%        | 62.3%        | 64.4%        | 68.1%        | 77.2%        | 76.3%        | 76.3%        |
| South Canterbury   | 66.3%        | 65.3%        | 63.9%        | 114.9%       | 100.8%       | 102.5%       | 61.7%        | 66.1%        | 66.2%        | 80.2%        | 79.5%        | 77.7%        |
| Southern           | 69.6%        | 69.3%        | 69.3%        | 74.7%        | 76.2%        | 74.9%        | 50.0%        | 50.0%        | 51.0%        | 81.6%        | 81.1%        | 82.1%        |
| <b>Total</b>       | <b>69.1%</b> | <b>68.1%</b> | <b>67.8%</b> | <b>75.1%</b> | <b>72.7%</b> | <b>69.6%</b> | <b>63.1%</b> | <b>62.3%</b> | <b>62.2%</b> | <b>79.5%</b> | <b>78.6%</b> | <b>78.5%</b> |