

# **NCSP Southern District Health Board Coverage Report**

For the period ending 31 March  
2016



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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, Asian and Pacific 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 number of women screened for the three year periods ending 31 March 2014 and 31 March 2015 were extracted from the NCSP Datamart on 29 April 2016. The data for the period ending 31 March 2016 was extracted from the Ministry of Health NCSP Datamart on 15 April 2016.

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.

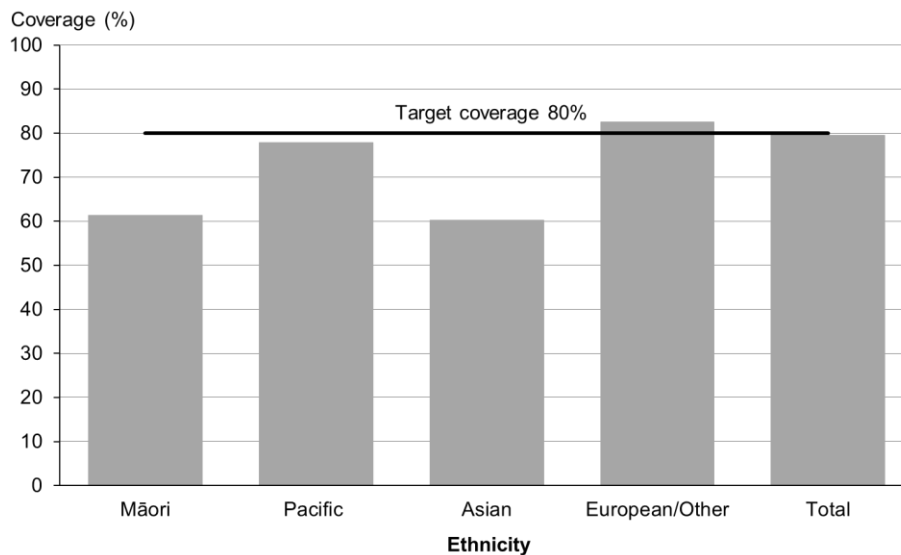
The denominators used for calculating coverage are derived from Statistics New Zealand’s District Health Board (DHB) population projections 30 June 2014 update based on the 2013 Census. The population projections have been adjusted for the prevalence of hysterectomy.

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

## Southern DHB coverage

### Southern DHB coverage by ethnicity in the three years ending 31 March 2016

**Figure 1: NCSP coverage (%) in the three years ending 31 March 2016 by ethnicity, women aged 25–69 years, Southern District Health Board**



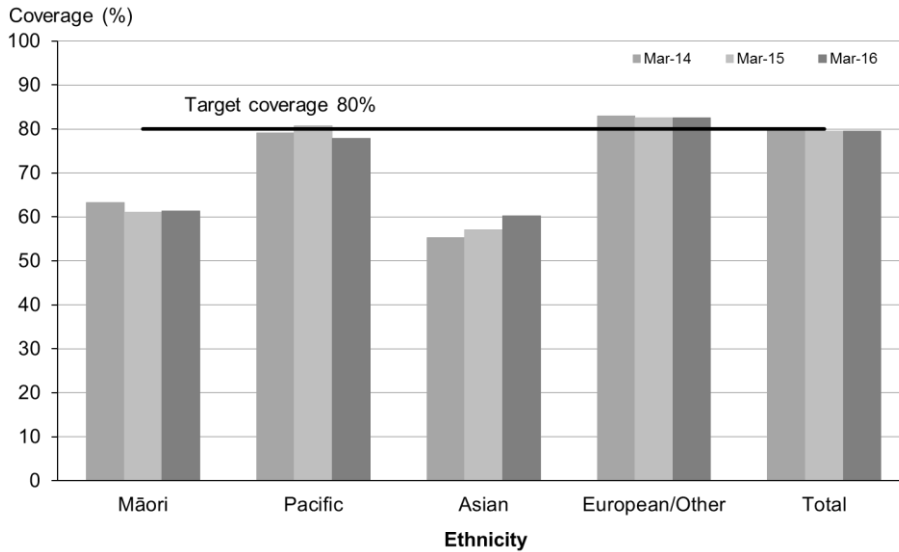
**Table 1: NCSP coverage (%) in the three years ending 31 March 2016 by ethnicity, women aged 25–69 years, Southern District Health Board**

| Ethnicity      | Population    | Women screened in last 3 years | 3-year coverage | Additional screens to reach 80% target* |
|----------------|---------------|--------------------------------|-----------------|---|
| Māori          | 6,293         | 3,857                          | 61.3%           | 1,177                                   |
| Pacific        | 1,131         | 880                            | 77.8%           | 25                                      |
| Asian          | 4,458         | 2,688                          | 60.3%           | 878                                     |
| European/Other | 66,461        | 54,826                         | 82.5%           |   |
| <b>Total</b>   | <b>78,343</b> | <b>62,251</b>                  | <b>79.5%</b>    | <b>423</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%.

## Southern coverage trends by ethnicity

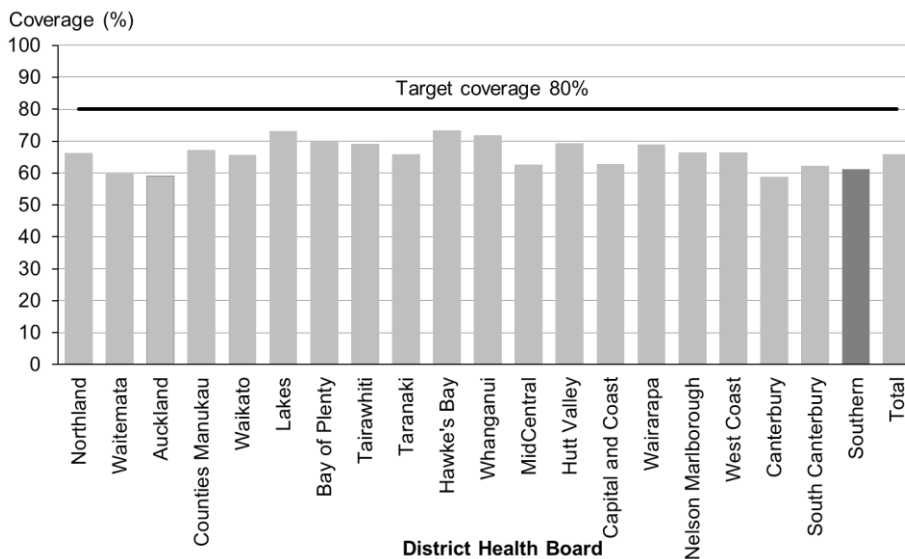
**Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 March 2014, 2015 and 2016 by ethnicity, Southern District Health Board**



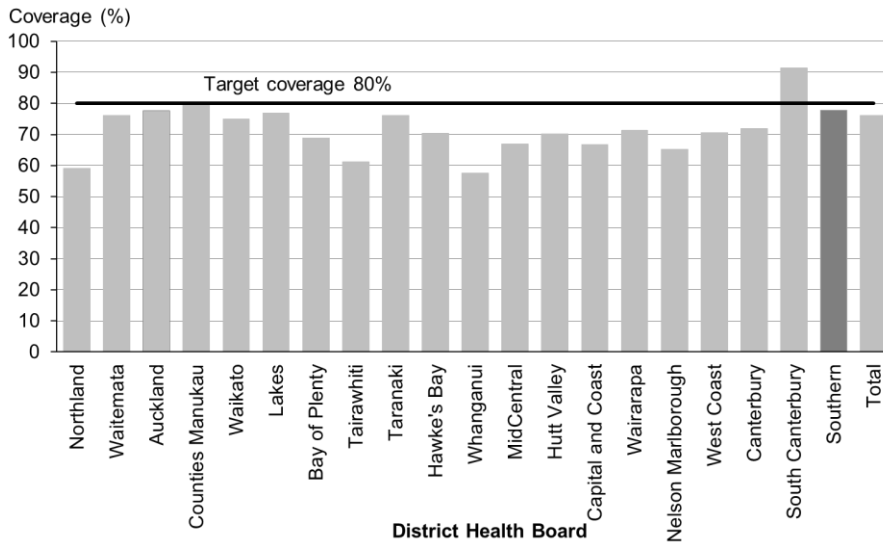
## DHB coverage comparisons

### DHB coverage by ethnicity in the three years ending 31 March 2016

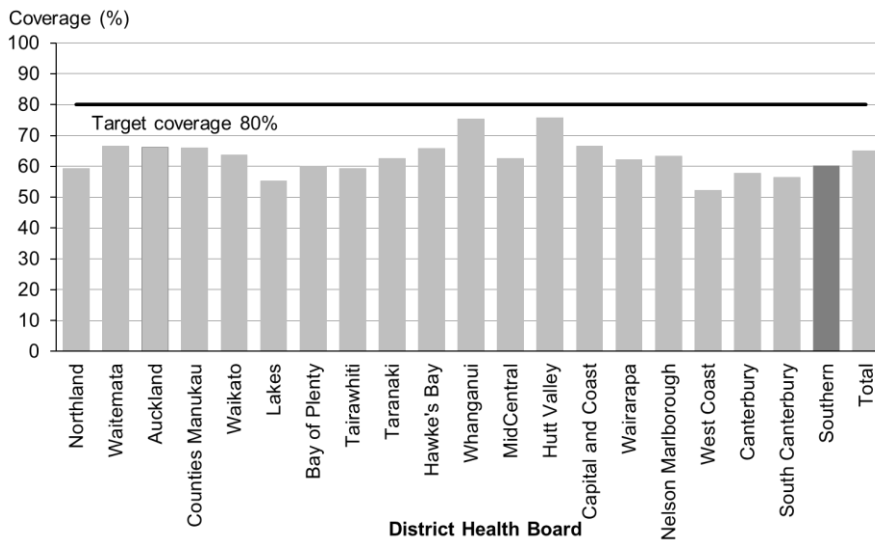
**Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 March 2016 by District Health Board**



**Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 March 2016 by District Health Board**

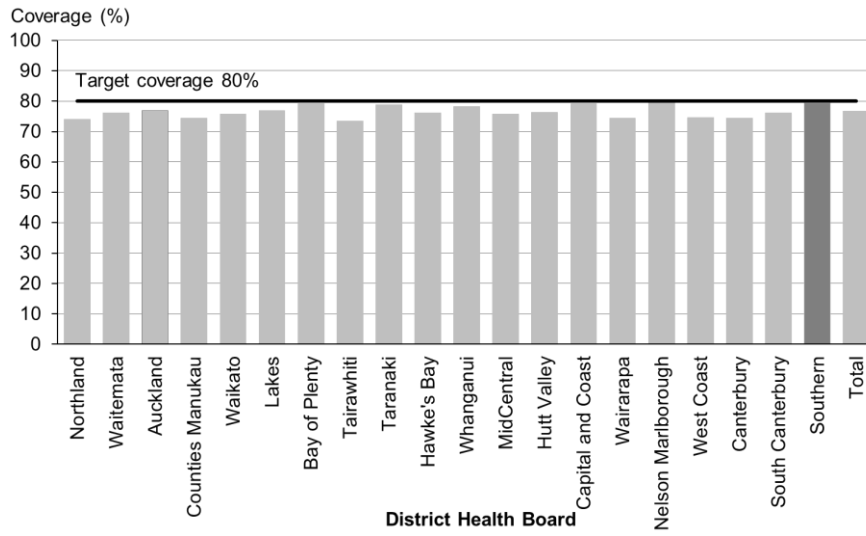


**Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 March 2016 by District Health Board**





**Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 March 2016 by District Health Board**



**Table 2: NCSP number of screens and coverage (%) in women aged 25–69 years in the three years ending 31 March 2016 by District Health Board**

| DHB name           | Eligible population |               |                |                    |                  | Screens        |               |                |                    |                | Coverage     |              |              |                    |              |
|--------------------|---------------------|---------------|----------------|--------------------|------------------|----------------|---------------|----------------|--------------------|----------------|--------------|--------------|--------------|--------------------|--------------|
|                    | Māori               | Pacific       | Asian          | European/<br>Other | Total            | Māori          | Pacific       | Asian          | European/<br>Other | Total          | Māori        | Pacific      | Asian        | European/<br>Other | Total        |
| Northland          | 12,680              | 691           | 1,692          | 26,874             | 41,937           | 8,398          | 408           | 1,004          | 21,208             | 31,018         | 66.2%        | 59.0%        | 59.3%        | 78.9%              | 74.0%        |
| Waitemata          | 12,589              | 9,296         | 35,121         | 97,914             | 154,920          | 7,516          | 7,083         | 23,381         | 79,934             | 117,914        | 59.7%        | 76.2%        | 66.6%        | 81.6%              | 76.1%        |
| Auckland           | 9,658               | 12,322        | 42,153         | 69,709             | 133,842          | 5,706          | 9,576         | 27,877         | 59,739             | 102,898        | 59.1%        | 77.7%        | 66.1%        | 85.7%              | 76.9%        |
| Counties Manukau   | 18,118              | 25,163        | 36,191         | 54,310             | 133,782          | 12,171         | 20,151        | 23,887         | 43,352             | 99,561         | 67.2%        | 80.1%        | 66.0%        | 79.8%              | 74.4%        |
| Waikato            | 19,193              | 2,400         | 8,885          | 67,491             | 97,969           | 12,596         | 1,800         | 5,657          | 54,079             | 74,132         | 65.6%        | 75.0%        | 63.7%        | 80.1%              | 75.7%        |
| Lakes              | 8,145               | 552           | 2,021          | 15,725             | 26,443           | 5,948          | 424           | 1,117          | 12,861             | 20,350         | 73.0%        | 76.8%        | 55.3%        | 81.8%              | 77.0%        |
| Bay of Plenty      | 12,249              | 810           | 3,580          | 39,511             | 56,150           | 8,533          | 558           | 2,151          | 33,193             | 44,435         | 69.7%        | 68.9%        | 60.1%        | 84.0%              | 79.1%        |
| Tairāwhiti         | 5,345               | 253           | 351            | 5,876              | 11,825           | 3,686          | 155           | 208            | 4,633              | 8,682          | 69.0%        | 61.3%        | 59.3%        | 78.8%              | 73.4%        |
| Taranaki           | 4,449               | 276           | 1,388          | 24,050             | 30,163           | 2,924          | 210           | 869            | 19,764             | 23,767         | 65.7%        | 76.1%        | 62.6%        | 82.2%              | 78.8%        |
| Hawke's Bay        | 8,937               | 1,162         | 1,821          | 28,536             | 40,456           | 6,546          | 818           | 1,197          | 22,236             | 30,797         | 73.2%        | 70.4%        | 65.7%        | 77.9%              | 76.1%        |
| Whanganui          | 3,515               | 323           | 472            | 10,937             | 15,247           | 2,519          | 186           | 356            | 8,856              | 11,917         | 71.7%        | 57.6%        | 75.4%        | 81.0%              | 78.2%        |
| MidCentral         | 6,979               | 982           | 3,167          | 31,280             | 42,408           | 4,365          | 658           | 1,980          | 25,117             | 32,120         | 62.5%        | 67.0%        | 62.5%        | 80.3%              | 75.7%        |
| Hutt Valley        | 5,456               | 2,620         | 4,429          | 25,665             | 38,170           | 3,778          | 1,841         | 3,356          | 20,153             | 29,128         | 69.2%        | 70.3%        | 75.8%        | 78.5%              | 76.3%        |
| Capital and Coast  | 7,798               | 5,120         | 11,521         | 55,957             | 80,396           | 4,894          | 3,416         | 7,659          | 47,720             | 63,689         | 62.8%        | 66.7%        | 66.5%        | 85.3%              | 79.2%        |
| Wairarapa          | 1,580               | 174           | 336            | 9,039              | 11,129           | 1,088          | 124           | 209            | 6,866              | 8,287          | 68.9%        | 71.3%        | 62.2%        | 76.0%              | 74.5%        |
| Nelson Marlborough | 3,202               | 457           | 1,723          | 32,855             | 38,237           | 2,123          | 298           | 1,092          | 27,215             | 30,728         | 66.3%        | 65.2%        | 63.4%        | 82.8%              | 80.4%        |
| West Coast         | 844                 | 78            | 348            | 7,479              | 8,749            | 560            | 55            | 182            | 5,734              | 6,531          | 66.4%        | 70.5%        | 52.3%        | 76.7%              | 74.6%        |
| Canterbury         | 9,417               | 2,684         | 13,411         | 111,110            | 136,622          | 5,531          | 1,932         | 7,757          | 86,418             | 101,638        | 58.7%        | 72.0%        | 57.8%        | 77.8%              | 74.4%        |
| South Canterbury   | 984                 | 104           | 573            | 13,238             | 14,899           | 611            | 95            | 323            | 10,321             | 11,350         | 62.1%        | 91.3%        | 56.4%        | 78.0%              | 76.2%        |
| <b>Southern</b>    | <b>6,293</b>        | <b>1,131</b>  | <b>4,458</b>   | <b>66,461</b>      | <b>78,343</b>    | <b>3,857</b>   | <b>880</b>    | <b>2,688</b>   | <b>54,826</b>      | <b>62,251</b>  | <b>61.3%</b> | <b>77.8%</b> | <b>60.3%</b> | <b>82.5%</b>       | <b>79.5%</b> |
| Unspecified        |                     |               |                |                    |                  | 192            | 88            | 123            | 1,398              | 1,801          |              |              |              |                    |              |
| <b>Total</b>       | <b>157,431</b>      | <b>66,598</b> | <b>173,641</b> | <b>794,017</b>     | <b>1,191,687</b> | <b>103,542</b> | <b>50,756</b> | <b>113,073</b> | <b>645,623</b>     | <b>912,994</b> | <b>65.8%</b> | <b>76.2%</b> | <b>65.1%</b> | <b>81.3%</b>       | <b>76.6%</b> |

## DHB coverage comparison trends by ethnicity

**Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 March 2014, 2015 and 2016 by ethnicity and District Health Board**

| District Health Board | Māori        |              |              | Pacific      |              |              | Asian        |              |              | European/Other |              |              |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|
|                       | Mar-14       | Mar-15       | Mar-16       | Mar-14       | Mar-15       | Mar-16       | Mar-14       | Mar-15       | Mar-16       | Mar-14         | Mar-15       | Mar-16       |
| Northland             | 70.2%        | 67.8%        | 66.2%        | 59.3%        | 58.2%        | 59.0%        | 59.1%        | 58.9%        | 59.3%        | 81.5%          | 80.7%        | 78.9%        |
| Waitemata             | 60.4%        | 59.5%        | 59.7%        | 75.7%        | 75.1%        | 76.2%        | 65.6%        | 65.5%        | 66.6%        | 83.0%          | 82.3%        | 81.6%        |
| Auckland              | 59.1%        | 57.3%        | 59.1%        | 74.4%        | 74.4%        | 77.7%        | 62.7%        | 63.8%        | 66.1%        | 84.6%          | 84.6%        | 85.7%        |
| Counties Manukau      | 66.1%        | 64.1%        | 67.2%        | 79.3%        | 77.3%        | 80.1%        | 64.6%        | 64.4%        | 66.0%        | 81.0%          | 79.7%        | 79.8%        |
| Waikato               | 65.1%        | 64.4%        | 65.6%        | 76.6%        | 75.4%        | 75.0%        | 61.4%        | 62.8%        | 63.7%        | 81.4%          | 80.8%        | 80.1%        |
| Lakes                 | 72.5%        | 72.1%        | 73.0%        | 75.7%        | 74.4%        | 76.8%        | 53.1%        | 53.6%        | 55.3%        | 82.9%          | 82.0%        | 81.8%        |
| Bay of Plenty         | 69.0%        | 69.0%        | 69.7%        | 71.5%        | 70.2%        | 68.9%        | 60.5%        | 61.1%        | 60.1%        | 86.1%          | 85.3%        | 84.0%        |
| Tairāwhiti            | 72.2%        | 68.1%        | 69.0%        | 64.9%        | 59.2%        | 61.3%        | 57.1%        | 59.4%        | 59.3%        | 81.6%          | 77.3%        | 78.8%        |
| Taranaki              | 68.8%        | 67.4%        | 65.7%        | 72.3%        | 78.1%        | 76.1%        | 59.5%        | 61.4%        | 62.6%        | 86.3%          | 84.2%        | 82.2%        |
| Hawke's Bay           | 74.4%        | 73.1%        | 73.2%        | 75.6%        | 69.5%        | 70.4%        | 66.2%        | 64.3%        | 65.7%        | 81.1%          | 79.6%        | 77.9%        |
| Whanganui             | 70.9%        | 69.8%        | 71.7%        | 65.4%        | 65.5%        | 57.6%        | 72.2%        | 72.4%        | 75.4%        | 80.9%          | 80.4%        | 81.0%        |
| MidCentral            | 64.4%        | 63.2%        | 62.5%        | 70.8%        | 68.1%        | 67.0%        | 59.5%        | 62.1%        | 62.5%        | 81.3%          | 81.2%        | 80.3%        |
| Hutt Valley           | 67.8%        | 68.3%        | 69.2%        | 69.8%        | 70.6%        | 70.3%        | 72.1%        | 73.6%        | 75.8%        | 79.7%          | 79.3%        | 78.5%        |
| Capital and Coast     | 65.2%        | 63.3%        | 62.8%        | 69.3%        | 67.8%        | 66.7%        | 65.5%        | 65.2%        | 66.5%        | 85.8%          | 84.9%        | 85.3%        |
| Wairarapa             | 73.0%        | 72.1%        | 68.9%        | 71.3%        | 75.6%        | 71.3%        | 59.3%        | 61.8%        | 62.2%        | 80.1%          | 78.1%        | 76.0%        |
| Nelson Marlborough    | 66.5%        | 65.7%        | 66.3%        | 64.1%        | 62.7%        | 65.2%        | 56.6%        | 59.6%        | 63.4%        | 84.0%          | 83.8%        | 82.8%        |
| West Coast            | 67.6%        | 65.3%        | 66.4%        | 70.4%        | 71.3%        | 70.5%        | 49.4%        | 48.3%        | 52.3%        | 79.9%          | 78.8%        | 76.7%        |
| Canterbury            | 61.7%        | 60.1%        | 58.7%        | 71.3%        | 71.5%        | 72.0%        | 53.4%        | 54.9%        | 57.8%        | 80.2%          | 78.4%        | 77.8%        |
| South Canterbury      | 57.8%        | 61.2%        | 62.1%        | 76.7%        | 86.1%        | 91.3%        | 47.0%        | 51.0%        | 56.4%        | 77.2%          | 78.7%        | 78.0%        |
| <b>Southern</b>       | <b>63.3%</b> | <b>61.1%</b> | <b>61.3%</b> | <b>79.2%</b> | <b>80.8%</b> | <b>77.8%</b> | <b>55.4%</b> | <b>57.1%</b> | <b>60.3%</b> | <b>83.0%</b>   | <b>82.6%</b> | <b>82.5%</b> |
| <b>Total</b>          | <b>66.6%</b> | <b>65.3%</b> | <b>65.8%</b> | <b>75.6%</b> | <b>74.5%</b> | <b>76.2%</b> | <b>62.8%</b> | <b>63.4%</b> | <b>65.1%</b> | <b>82.7%</b>   | <b>81.8%</b> | <b>81.3%</b> |

Key ■ < 70% ■ 70–79.9% ■ ≥ 80%