



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

For the period ending  
31 December 2016

Citation: Ministry of Health. January 2017. *NCSP New Zealand District Health Board Coverage Report: period ending 31 December 2016*. Wellington: Ministry of Health.

Published in January 2017 by the  
Ministry of Health  
PO Box 5013, Wellington 6145, New Zealand  
2422-9148 (online)

This document is available at [www.nsu.govt.nz](http://www.nsu.govt.nz)

# Contents

Introduction .....	2
Technical notes.....	3
Northland coverage.....	4
Northland coverage by ethnicity in the three years ending 31 December 2016 .....	4
Northland coverage trends by ethnicity.....	5
DHB coverage comparisons .....	5
DHB coverage by ethnicity in the three years ending 31 December 2016 .....	5
DHB coverage comparison trends by ethnicity .....	13
<b>List of tables</b>	
Table 1: NCSP coverage (%) in the three years ending 31 December 2016 by ethnicity, women aged 25–69 years, Total Coverage.....	4
Table 2: NCSP number of screens and coverage (%) in women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	12
Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December, 2014, 2015, 2016, by ethnicity and District Health Board .....	13
<b>List of figures</b>	
Figure 1: NCSP coverage (%) in the three years ending 31 December 2016 by ethnicity, women aged 25–69 years, Total Coverage.....	4
Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2016 by ethnicity, Total Coverage.....	5
Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	5
Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	6
Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	6
Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	7
Figure 7: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2016 .....	8
Figure 8: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2016 .....	9
Figure 9: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	10
Figure 10: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2016 by District Health Board .....	11

## 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 2016 was extracted from the Ministry of Health NCSP Datamart on 20 January 2017.

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.

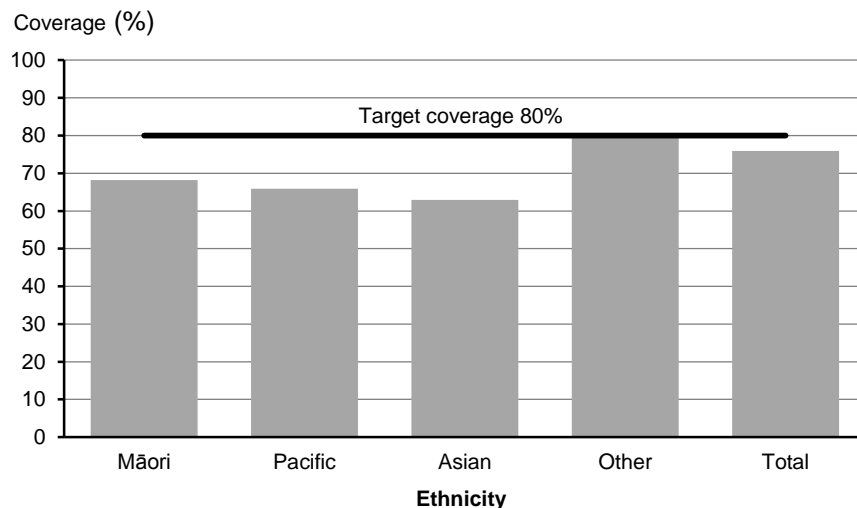
The denominators used for calculating coverage are derived from Statistics New Zealand’s District Health Board (DHB) population projections 30 June 2015 update based on the 2013 Census. The population projections have been adjusted for the prevalence of hysterectomy.

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

## Northland coverage

### Northland coverage by ethnicity in the three years ending 31 December 2016

**Figure 1: NCSP coverage (%) in the three years ending 31 December 2016 by ethnicity, women aged 25–69 years, Total Coverage**



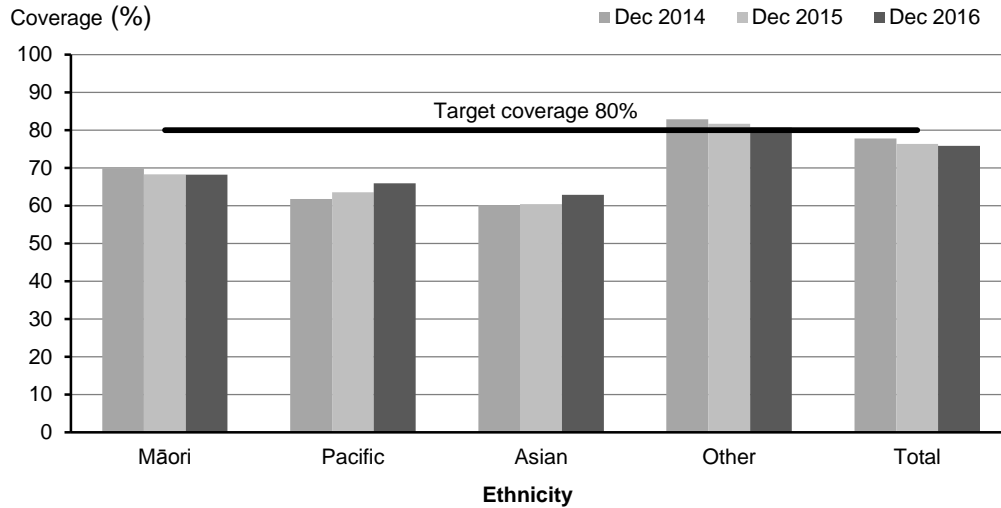
**Table 1: NCSP coverage (%) in the three years ending 31 December 2016 by ethnicity, women aged 25–69 years, Total Coverage**

Ethnicity	Population	Women screened in last 3 years	3-year coverage	Additional screens to reach target*
Māori	12,982	8,860	68.20%	1,525
Pacific	701	462	65.90%	98
Asian	1,753	1,102	62.90%	300
Other	26,491	21,378	80.70%	
<b>Total</b>	<b>41,927</b>	<b>31,802</b>	<b>75.90%</b>	<b>1,739</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%.

## Northland coverage trends by ethnicity

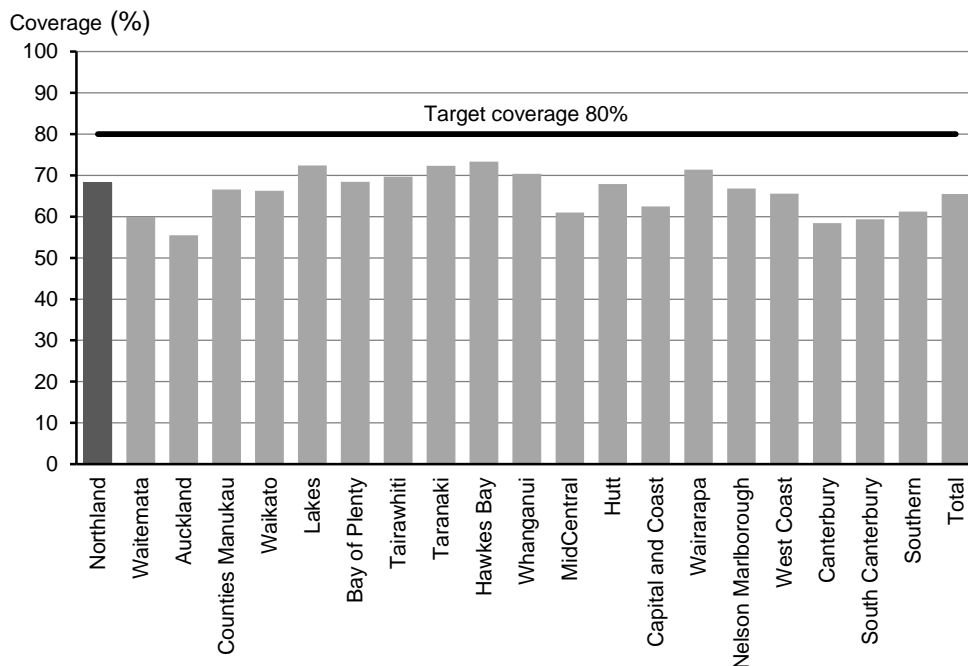
**Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2016 by ethnicity, Total Coverage**



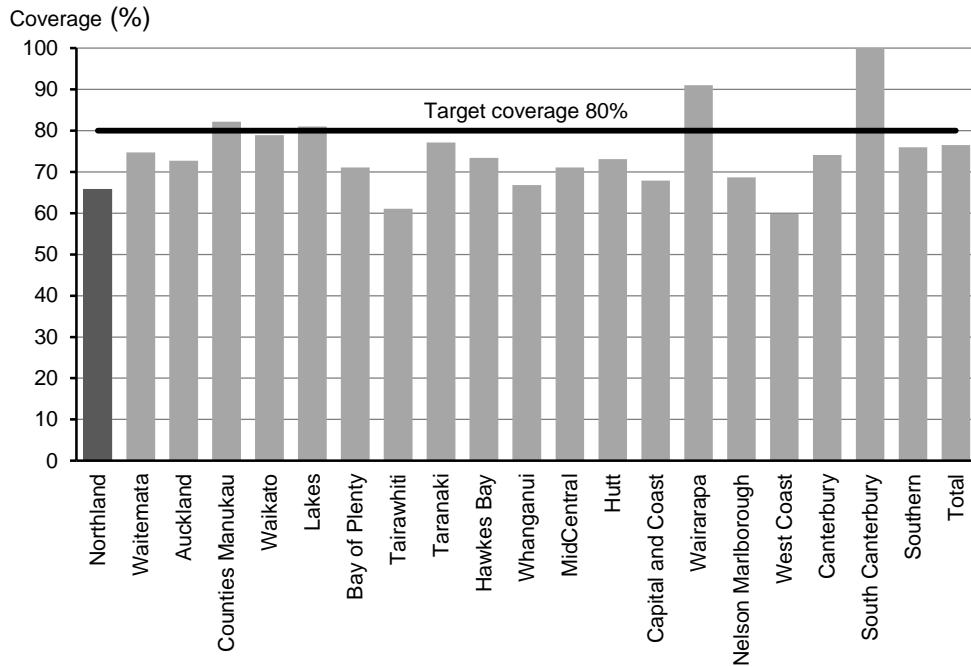
## DHB coverage comparisons

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

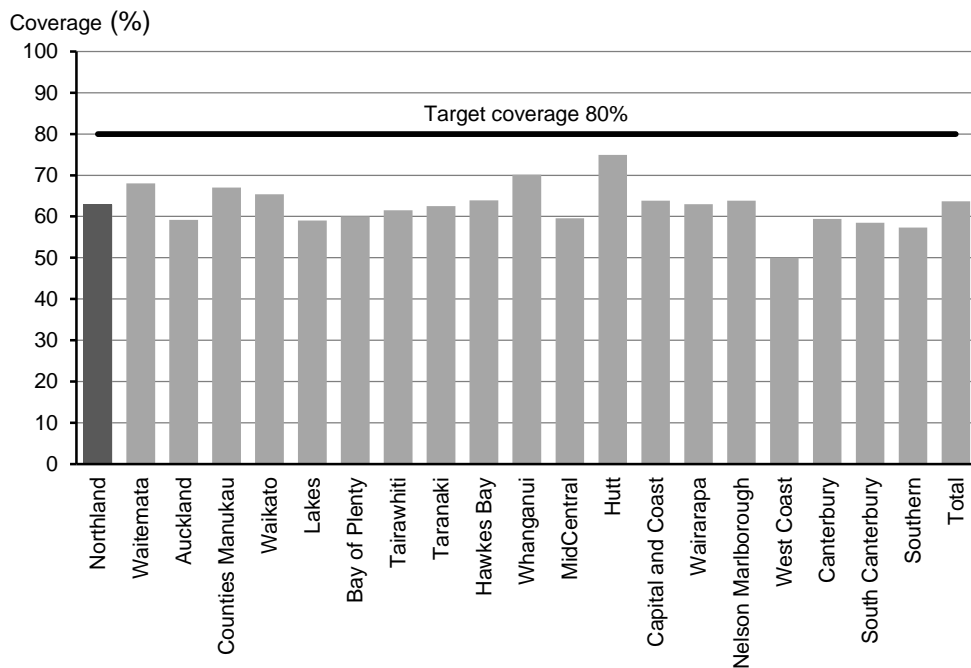
**Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2016 by District Health Board**



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

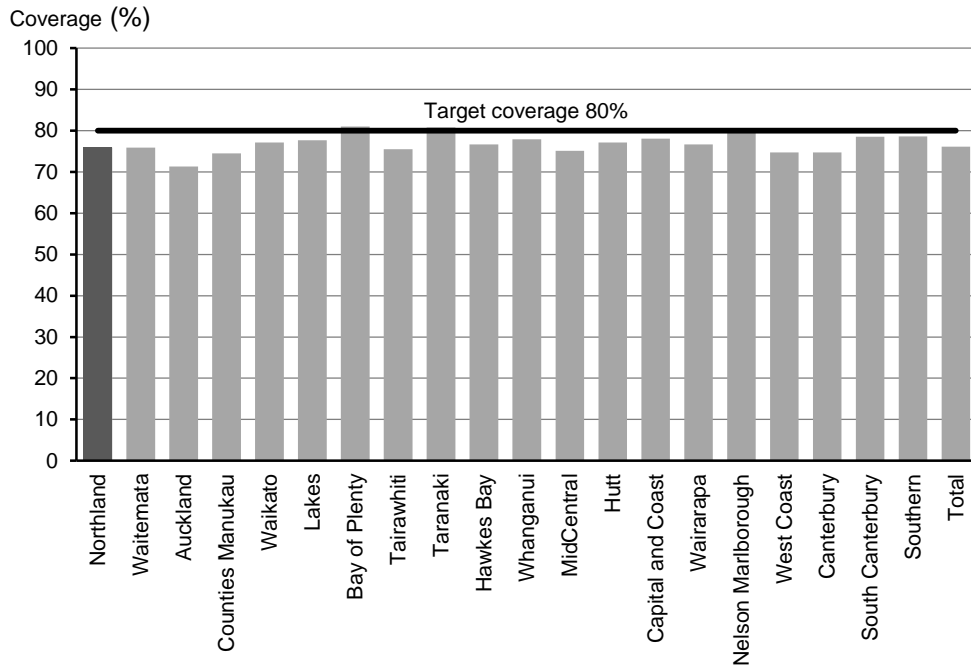


**Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2016 by District Health Board**

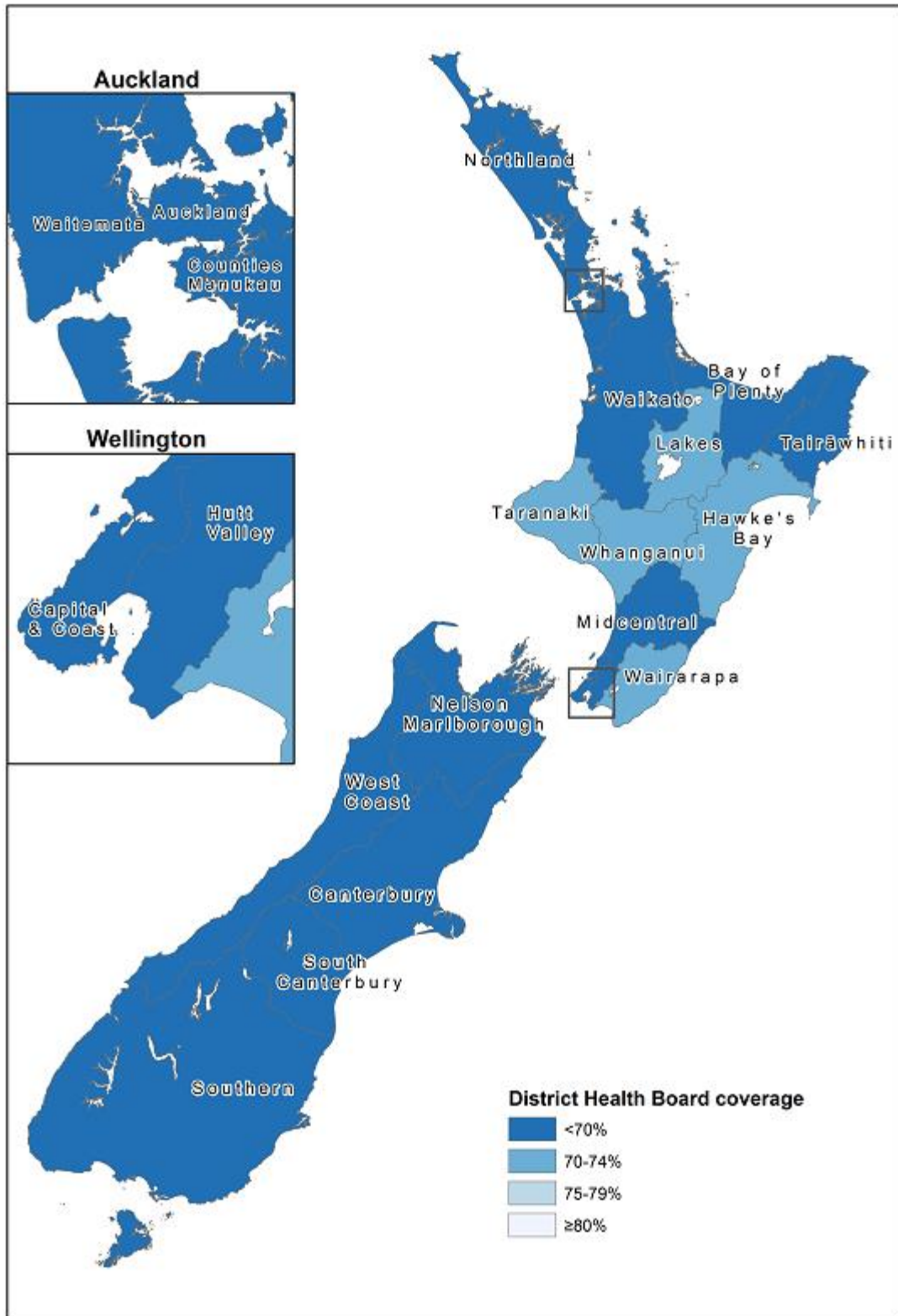




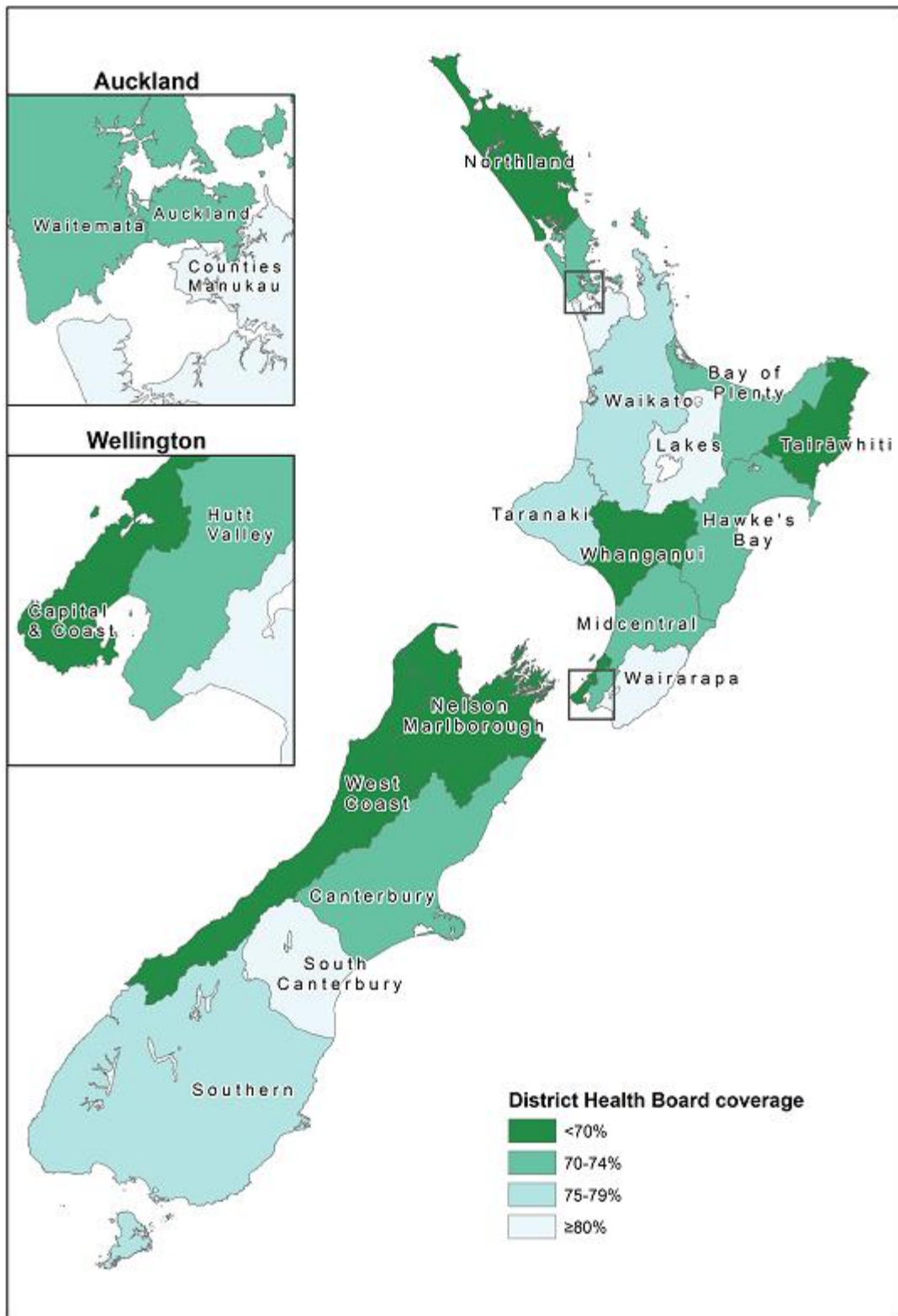
**Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2016 by District Health Board**



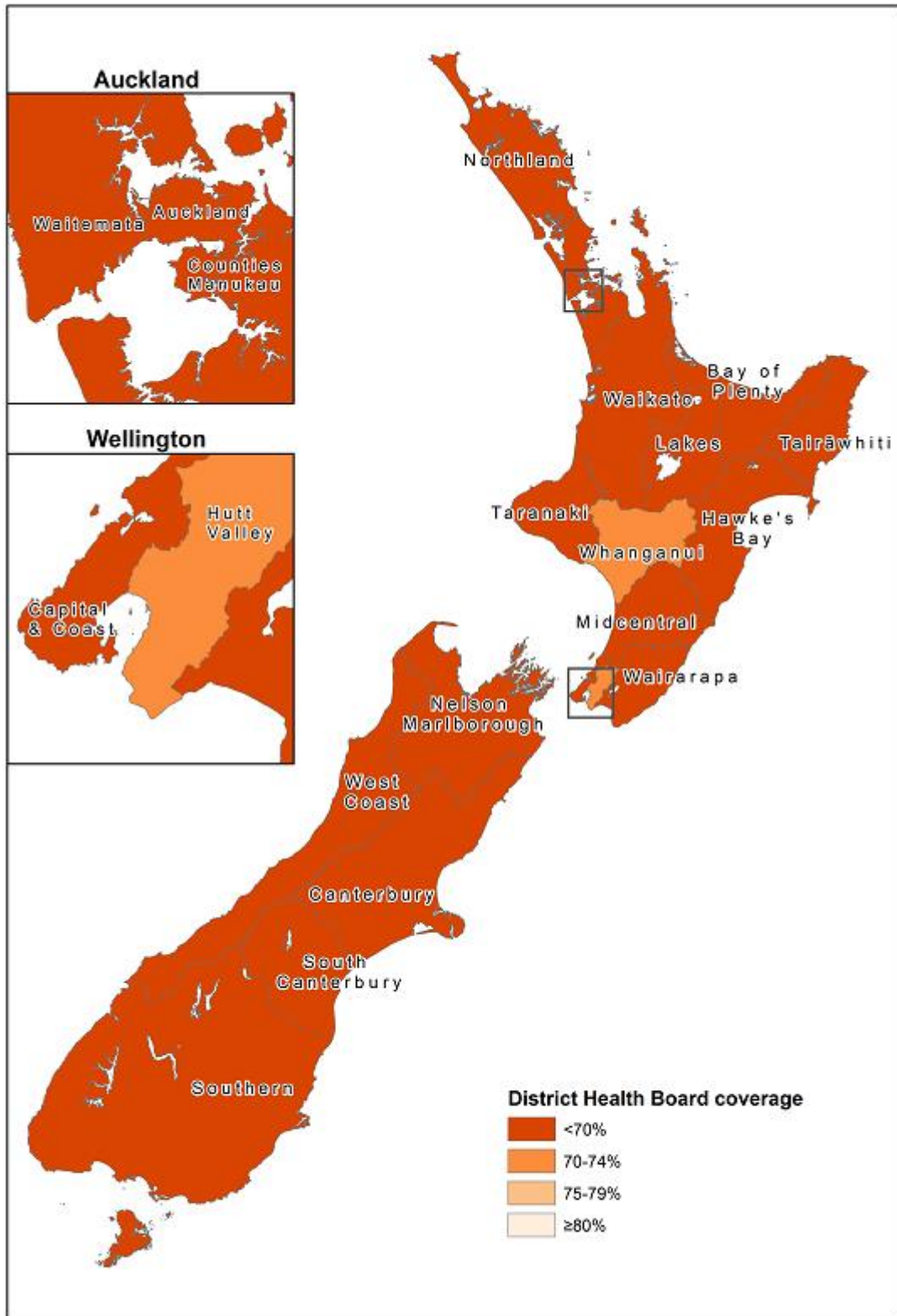
**Figure 7: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2016**



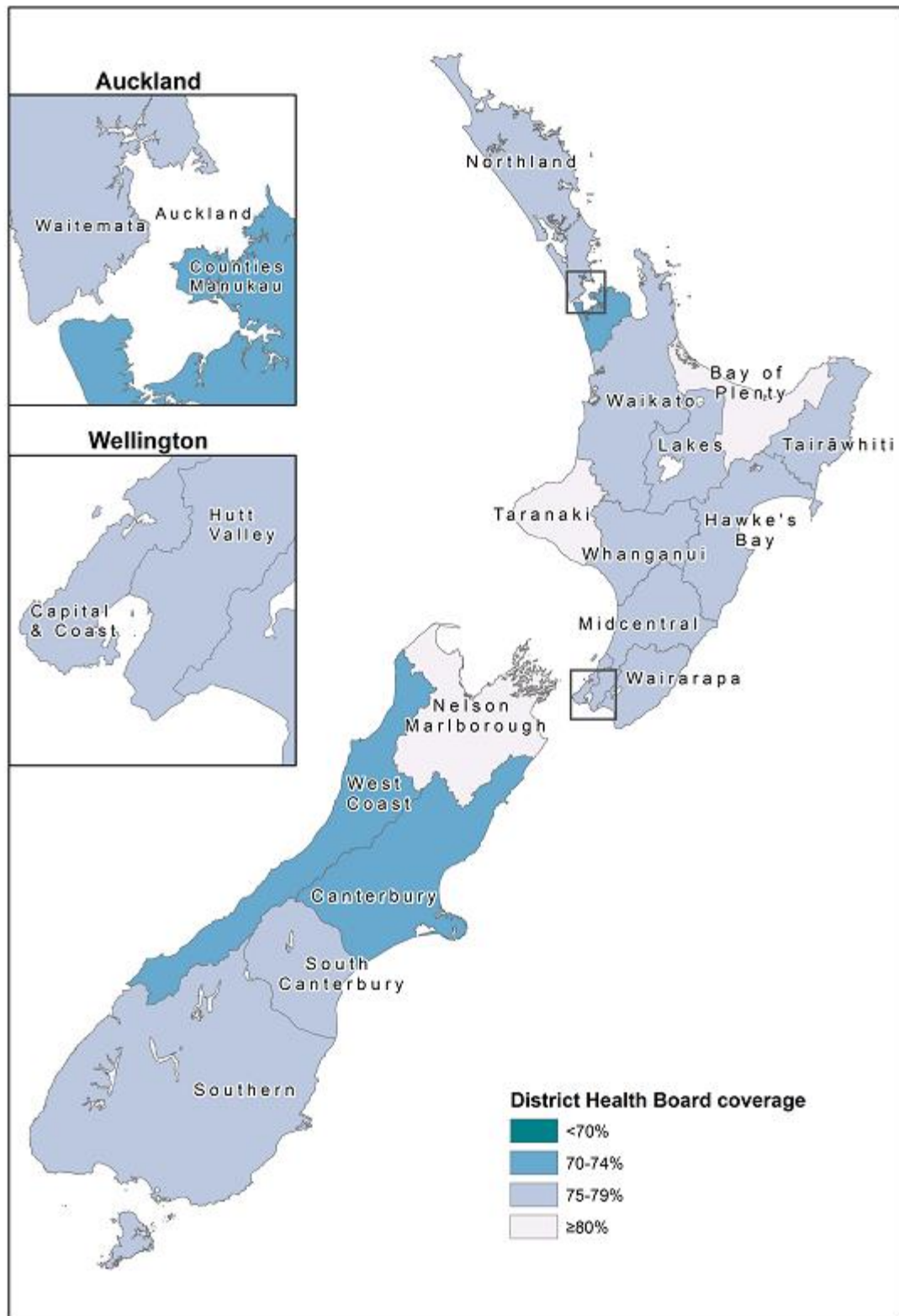
**Figure 8: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2016**



**Figure 9: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2016 by District Health Board**



**Figure 10: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 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 December 2016 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	12,982	701	1,753	26,491	41,927	8,860	462	1,102	21,378	31,802	68.2%	65.9%	62.9%	80.7%	75.9%
Waitemata	13,006	9,591	37,528	97,787	157,912	7,786	7,163	25,510	79,378	119,837	59.9%	74.7%	68.0%	81.2%	75.9%
Auckland	10,205	12,898	46,739	72,001	141,843	5,668	9,371	27,651	58,437	101,127	55.5%	72.7%	59.2%	81.2%	71.3%
Counties Manukau	19,096	25,517	38,444	54,027	137,084	12,710	20,973	25,775	42,645	102,103	66.6%	82.2%	67.0%	78.9%	74.5%
Waikato	19,851	2,448	9,612	67,212	99,123	13,156	1,931	6,282	55,024	76,393	66.3%	78.9%	65.4%	81.9%	77.1%
Lakes	8,378	538	2,031	15,575	26,522	6,063	436	1,199	12,917	20,615	72.4%	81.0%	59.0%	82.9%	77.7%
Bay of Plenty	12,575	817	3,956	39,393	56,741	8,602	581	2,374	34,410	45,967	68.4%	71.1%	60.0%	87.4%	81.0%
Tairāwhiti	5,544	244	348	5,644	11,780	3,866	149	214	4,665	8,894	69.7%	61.1%	61.5%	82.7%	75.5%
Taranaki	4,587	280	1,532	23,400	29,799	3,315	216	958	19,577	24,066	72.3%	77.1%	62.5%	83.7%	80.8%
Hawkes Bay	9,104	1,122	1,991	28,146	40,363	6,673	823	1,272	22,189	30,957	73.3%	73.4%	63.9%	78.8%	76.7%
Whanganui	3,623	307	541	10,693	15,164	2,551	205	379	8,673	11,808	70.4%	66.8%	70.1%	81.1%	77.9%
MidCentral	7,300	976	3,413	31,095	42,784	4,450	694	2,035	24,931	32,110	61.0%	71.1%	59.6%	80.2%	75.1%
Hutt	5,630	2,569	4,777	25,205	38,181	3,825	1,879	3,580	20,154	29,438	67.9%	73.1%	74.9%	80.0%	77.1%
Capital and Coast	8,123	5,020	12,381	56,152	81,676	5,073	3,408	7,893	47,447	63,821	62.5%	67.9%	63.8%	84.5%	78.1%
Wairarapa	1,623	156	351	8,882	11,012	1,159	142	221	6,923	8,445	71.4%	91.0%	63.0%	77.9%	76.7%
Nelson Marlborough	3,285	454	1,842	32,613	38,194	2,193	312	1,175	27,118	30,798	66.8%	68.7%	63.8%	83.2%	80.6%
West Coast	877	87	370	7,219	8,553	575	52	185	5,579	6,391	65.6%	59.8%	50.0%	77.3%	74.7%
Canterbury	10,076	2,750	14,219	110,612	137,657	5,889	2,038	8,448	86,388	102,763	58.4%	74.1%	59.4%	78.1%	74.7%
South Canterbury	1,035	114	617	13,075	14,841	615	116	361	10,558	11,650	59.4%	101.8%	58.5%	80.7%	78.5%
Southern	6,546	1,158	4,833	66,526	79,063	4,009	880	2,771	54,512	62,172	61.2%	76.0%	57.3%	81.9%	78.6%
<b>Total</b>	<b>163,446</b>	<b>67,747</b>	<b>187,278</b>	<b>791,748</b>	<b>1,210,219</b>	<b>107,038</b>	<b>51,831</b>	<b>119,385</b>	<b>642,903</b>	<b>921,157</b>	<b>65.5%</b>	<b>76.5%</b>	<b>63.7%</b>	<b>81.2%</b>	<b>76.1%</b>

## DHB coverage comparison trends by ethnicity

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

DHB	Māori			Pacific			Asian			Other		
	Dec 2014	Dec 2015	Dec 2016	Dec 2014	Dec 2015	Dec 2016	Dec 2014	Dec 2015	Dec 2016	Dec 2014	Dec 2015	Dec 2016
Northland	69.9%	68.3%	68.2%	61.8%	63.6%	65.9%	60.2%	60.4%	62.9%	82.9%	81.7%	80.7%
Waitemata	60.0%	60.3%	59.9%	74.6%	75.6%	74.7%	67.5%	67.8%	68.0%	82.2%	82.1%	81.2%
Auckland	54.8%	55.3%	55.5%	71.1%	72.8%	72.7%	58.4%	58.8%	59.2%	80.2%	80.7%	81.2%
Counties Manukau	63.7%	64.5%	66.6%	78.5%	81.0%	82.2%	66.0%	66.9%	67.0%	78.9%	79.4%	78.9%
Waikato	64.7%	66.1%	66.3%	78.2%	79.1%	78.9%	62.8%	63.0%	65.4%	81.9%	81.9%	81.9%
Lakes	71.9%	72.2%	72.4%	77.4%	78.8%	81.0%	55.5%	57.3%	59.0%	82.4%	82.6%	82.9%
Bay of Plenty	68.1%	70.2%	68.4%	73.4%	73.3%	71.1%	61.5%	59.7%	60.0%	88.8%	87.8%	87.4%
Tairāwhiti	67.9%	69.0%	69.7%	62.8%	62.8%	61.1%	57.1%	57.2%	61.5%	80.4%	81.9%	82.7%
Taranaki	72.9%	71.6%	72.3%	77.1%	74.3%	77.1%	60.0%	61.2%	62.5%	85.4%	84.4%	83.7%
Hawkes Bay	73.7%	73.6%	73.3%	72.4%	73.6%	73.4%	64.1%	62.2%	63.9%	81.4%	80.3%	78.8%
Whanganui	69.6%	70.8%	70.4%	62.4%	62.4%	66.8%	67.6%	66.3%	70.1%	80.0%	81.6%	81.1%
MidCentral	63.2%	62.9%	61.0%	71.0%	71.3%	71.1%	59.8%	59.6%	59.6%	81.3%	81.4%	80.2%
Hutt	68.4%	68.4%	67.9%	72.5%	73.4%	73.1%	73.3%	74.5%	74.9%	80.2%	80.3%	80.0%
Capital and Coast	62.6%	61.7%	62.5%	68.2%	68.1%	67.9%	64.0%	63.6%	63.8%	83.6%	84.2%	84.5%
Wairarapa	73.5%	72.4%	71.4%	76.9%	81.1%	91.0%	65.7%	64.2%	63.0%	81.9%	80.4%	77.9%
Nelson Marlborough	67.0%	67.3%	66.8%	64.7%	68.3%	68.7%	58.7%	60.7%	63.8%	85.2%	85.1%	83.2%
West Coast	66.1%	64.4%	65.6%	54.1%	61.2%	59.8%	44.5%	44.7%	50.0%	79.0%	77.5%	77.3%
Canterbury	61.7%	59.8%	58.4%	72.3%	73.4%	74.1%	54.5%	56.3%	59.4%	79.1%	78.8%	78.1%
South Canterbury	60.1%	61.9%	59.4%	88.7%	87.0%	101.8%	53.4%	56.9%	58.5%	80.1%	80.4%	80.7%
Southern	62.3%	61.5%	61.2%	78.4%	76.7%	76.0%	53.8%	55.4%	57.3%	82.2%	82.2%	81.9%
<b>Total</b>	<b>65.4%</b>	<b>65.6%</b>	<b>65.5%</b>	<b>74.5%</b>	<b>76.1%</b>	<b>76.5%</b>	<b>62.5%</b>	<b>63.0%</b>	<b>63.7%</b>	<b>81.8%</b>	<b>81.7%</b>	<b>81.2%</b>