

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
31 December 2017

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Contents

Introduction.....	2
Technical notes	3
Northland coverage	4
Northland coverage by ethnicity in the two years ending 31 December 2017.....	4
Northland coverage trends by ethnicity	5
DHB coverage comparisons	6
DHB coverage by ethnicity in the two years ending 31 December 2017	6
DHB coverage comparison trends by ethnicity	12
List of tables	
Table 1: BSA coverage (%) in the two years ending 31 December 2017 by ethnicity, women aged 50–69 years, Total Coverage	4
Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 4 2016 –Quarter 4 2017	5
Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 31 December 2017 by District Health Board.....	11
Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December, 2015, 2016, 2017, by ethnicity and District Health Board.....	12
List of figures	
Figure 1: BSA coverage (%) in the two years ending 31 December 2017 by ethnicity, women aged 50–69 years, Total Coverage	4
Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by ethnicity, Total Coverage	5
Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2017 by District Health Board	6
Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2017 by District Health Board	6
Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by District Health Board	7
Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2017.....	8
Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2017.....	9
Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by District Health Board	10

Introduction

BreastScreen Aotearoa (BSA) is a national public health screening programme funded by the Government to offer free Mammography every two years to women aged 45–69 years of age. The aim of BSA is to reduce morbidity and mortality from breast cancer by the early detection and treatment of the disease.

BSA's target is to screen 70 percent of eligible women aged 50–69 every two years. BSA does not have a target for women aged 45–49 years because there is less evidence of the benefits of this age group's participation in a population health breast screening programme.

Improving uptake of the breast cancer screening programme by Māori and Pacific women is a key priority of the National Screening Unit (NSU) as part of its commitment to achieving equity. Coverage rates are monitored closely for these two groups.

While the majority (15) of District Health Boards (DHBs) are not directly contracted by the Ministry of Health to provide breast screening services, it is expected that all DHBs will have linkages to breast screening activities. The programme is delivered throughout the country by eight lead providers, their sub-contracted providers (where applicable), and mobile units that deliver services to rural and some urban communities. Working alongside the lead providers are 13 independent service providers in defined geographical areas providing recruitment and retention, and support services for Māori and Pacific women.

The purpose of this quarterly report is to demonstrate by DHB if the programme coverage targets are being met for the region.

Technical notes

The data for the period ending 31 December 2017 was extracted from the national BreastScreen Aotearoa database (the Database) on 10 January 2018.

Screened women are included in the coverage calculations based on their age at the time of their screen. This means that coverage for women aged 50–69 years includes women who may have turned 70 or 71 during the monitoring period.

For both women screened and in the denominator, women have been prioritised to a single ethnicity using the following priority order: Māori, Pacific, Other. This means that if a woman chooses more than one category, and one of these is Māori, she is counted as Māori. For screened women with no ethnicity recorded in the Database, her screen contributes to overall coverage but not to any particular ethnicity. This means that the total number of women screened may be greater than the sum of women screened by ethnicity.

The denominators used for calculating coverage for the periods ending 31 December 2015, December 2016 and December 2017 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2016 update, based on the 2013 Census.

From December 2016, the National Screening Unit (NSU) began reporting using the latest 2013 domicile codes and daily data loading process, compared to previous reports which used a monthly data loading process and were based on 2006 domicile codes. This may result in variances across time series.

The denominator is the projected population for the mid-point of the monitoring period.

This means that for the two-year period ending:

- 31 December 2015, the denominator is the projected population for 31 December 2014
- 31 December 2016, the denominator is the projected population for 31 December 2015
- 31 December 2017, the denominator is the projected population for 31 December 2016

Delivery of BSA services through mobile units may also result in fluctuations in the number of women screened in a quarter which may impact on coverage from year to year depending on the mobile unit schedule.

Additional detail on the methodology can be obtained via a request made to screening@moh.govt.nz.

Northland coverage

Northland coverage by ethnicity in the two years ending 31 December 2017

Figure 1: BSA coverage (%) in the two years ending 31 December 2017 by ethnicity, women aged 50–69 years, Total Coverage

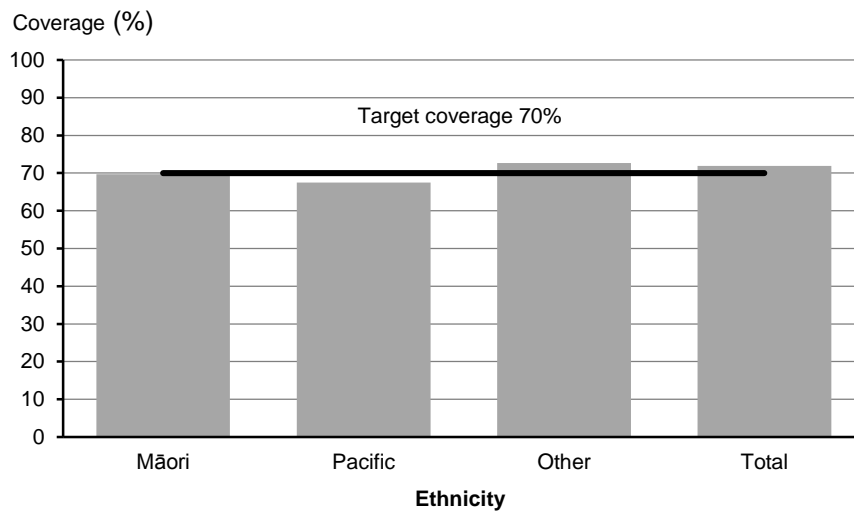


Table 1: BSA coverage (%) in the two years ending 31 December 2017 by ethnicity, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	5,890	4,104	69.70%	19
Pacific	280	189	67.50%	7
Other	18,215	13,239	72.70%	
Unspecified		8		
Total	24,385	17,540	71.90%	

*For the total population the number of additional screens is the number required to move from the total population coverage to 70%. This may not be the same as the sum of additional screens required for each ethnic group to reach 70%.

Northland coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by ethnicity, Total Coverage

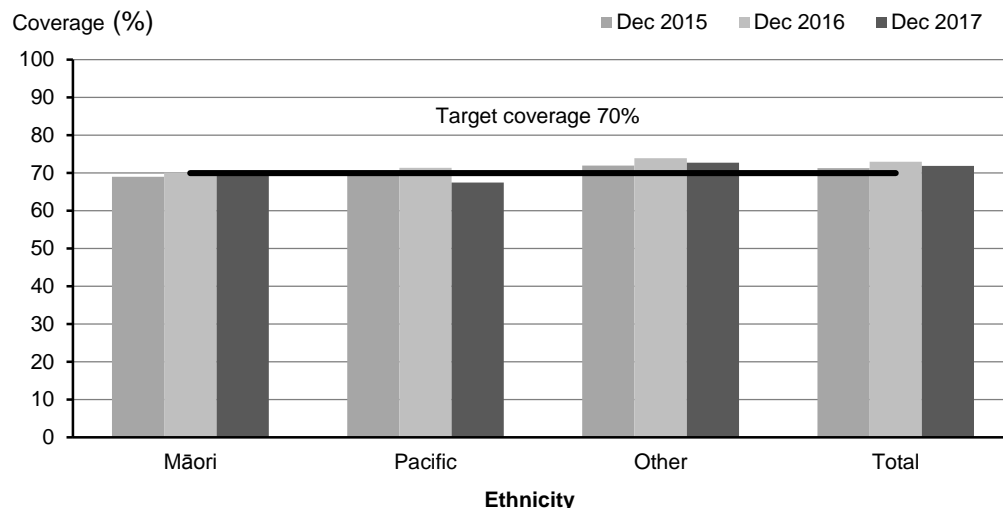


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 4 2016 –Quarter 4 2017

Ethnicity	Number of screens by quarter				
	Q4 (Oct - Dec) 2016	Q1 (Jan-Mar) 2017	Q2 (Apr - Jun) 2017	Q3 (Jun - Sep) 2017	Q4 (Oct - Dec) 2017
Māori	439	537	468	655	445
Pacific	21	23	21	26	26
Other	1,363	1,448	1,815	1,772	1,771
Total	1,823	2,008	2,304	2,453	2,242

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 31 December 2017

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2017 by District Health Board

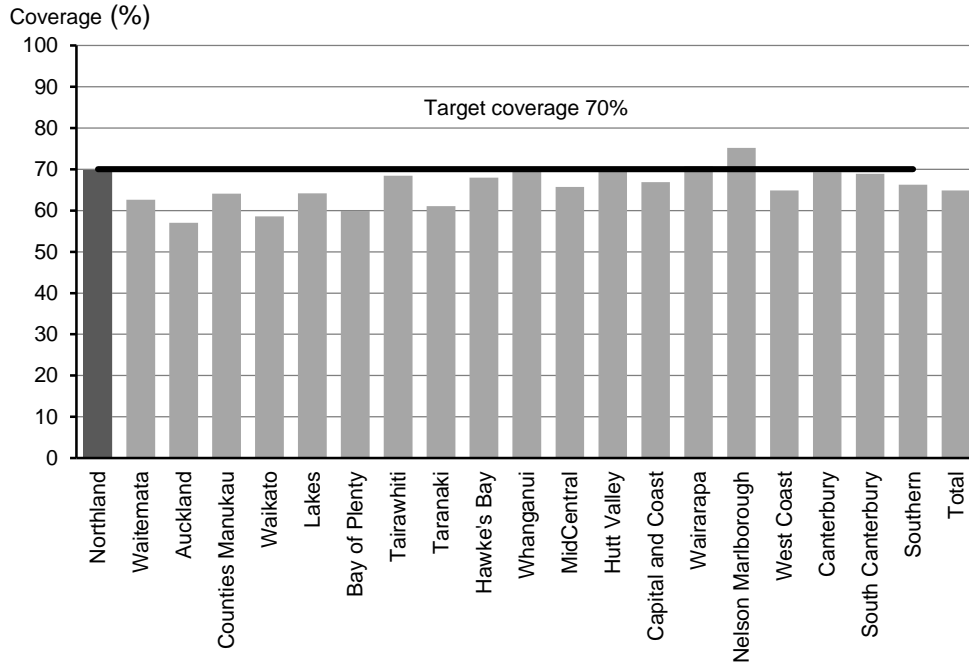


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2017 by District Health Board

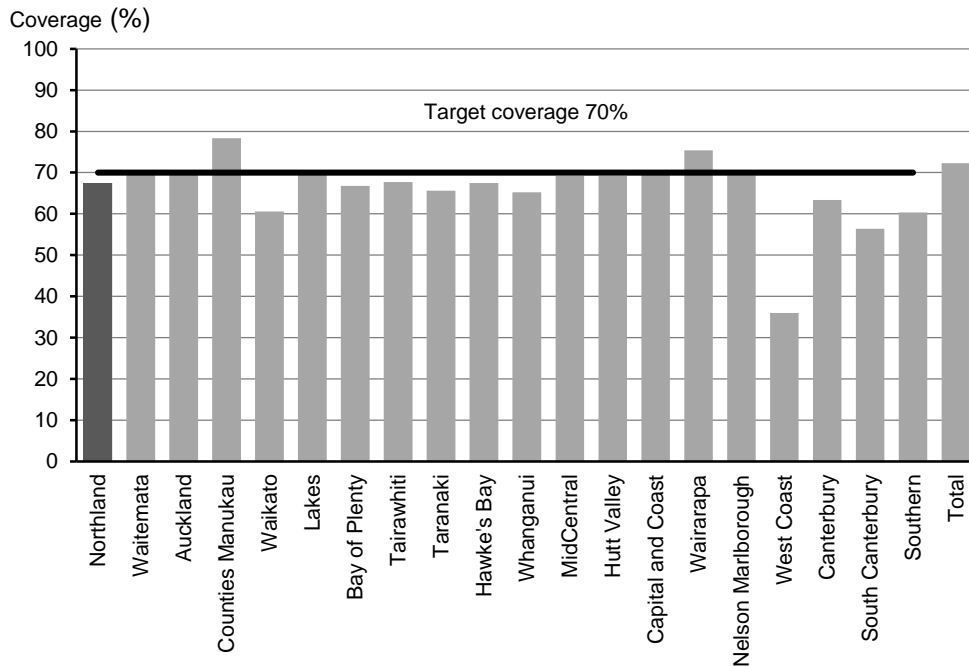


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by District Health Board

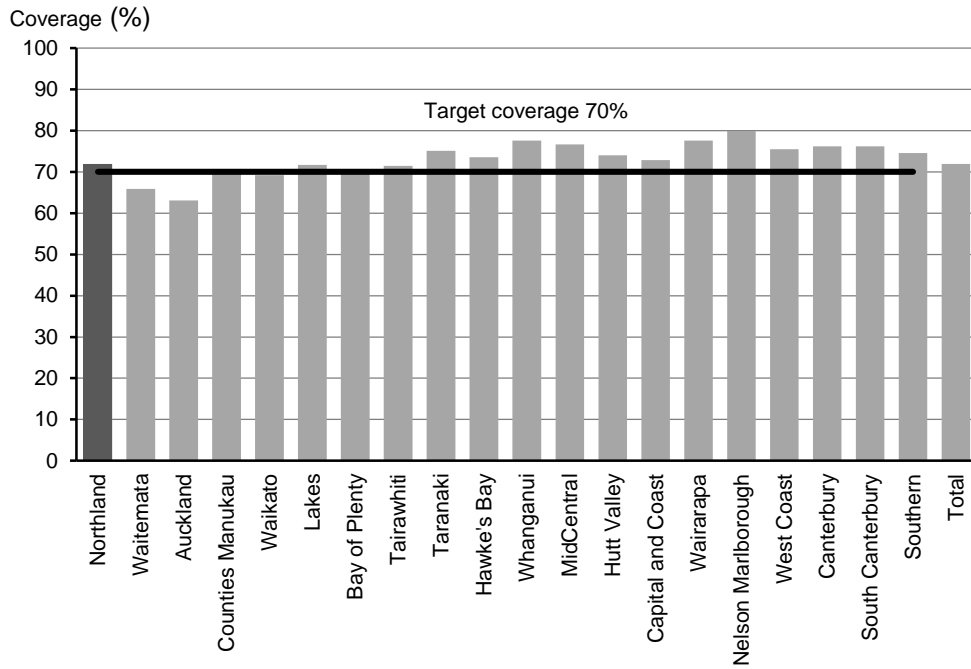


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2017

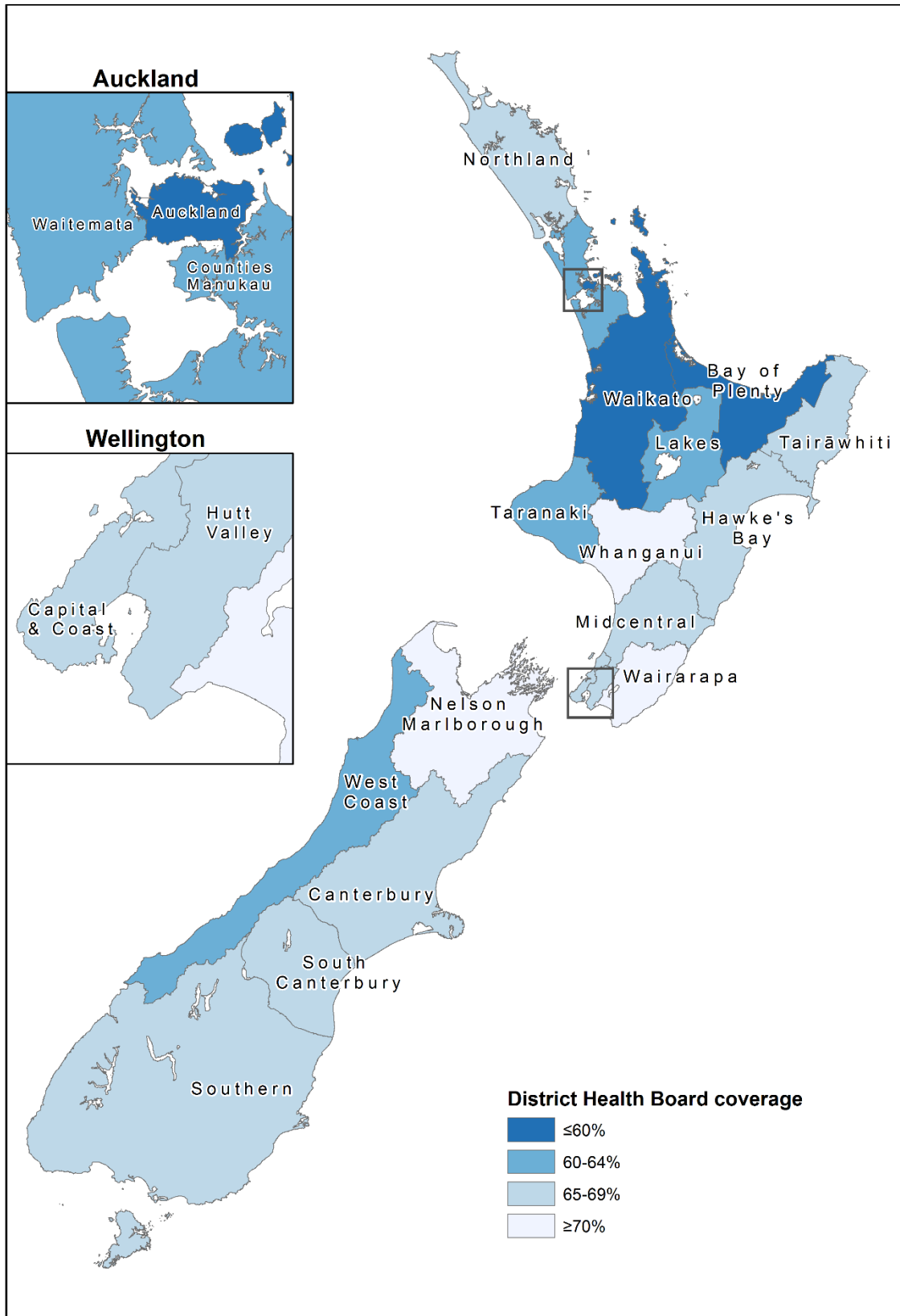


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2017

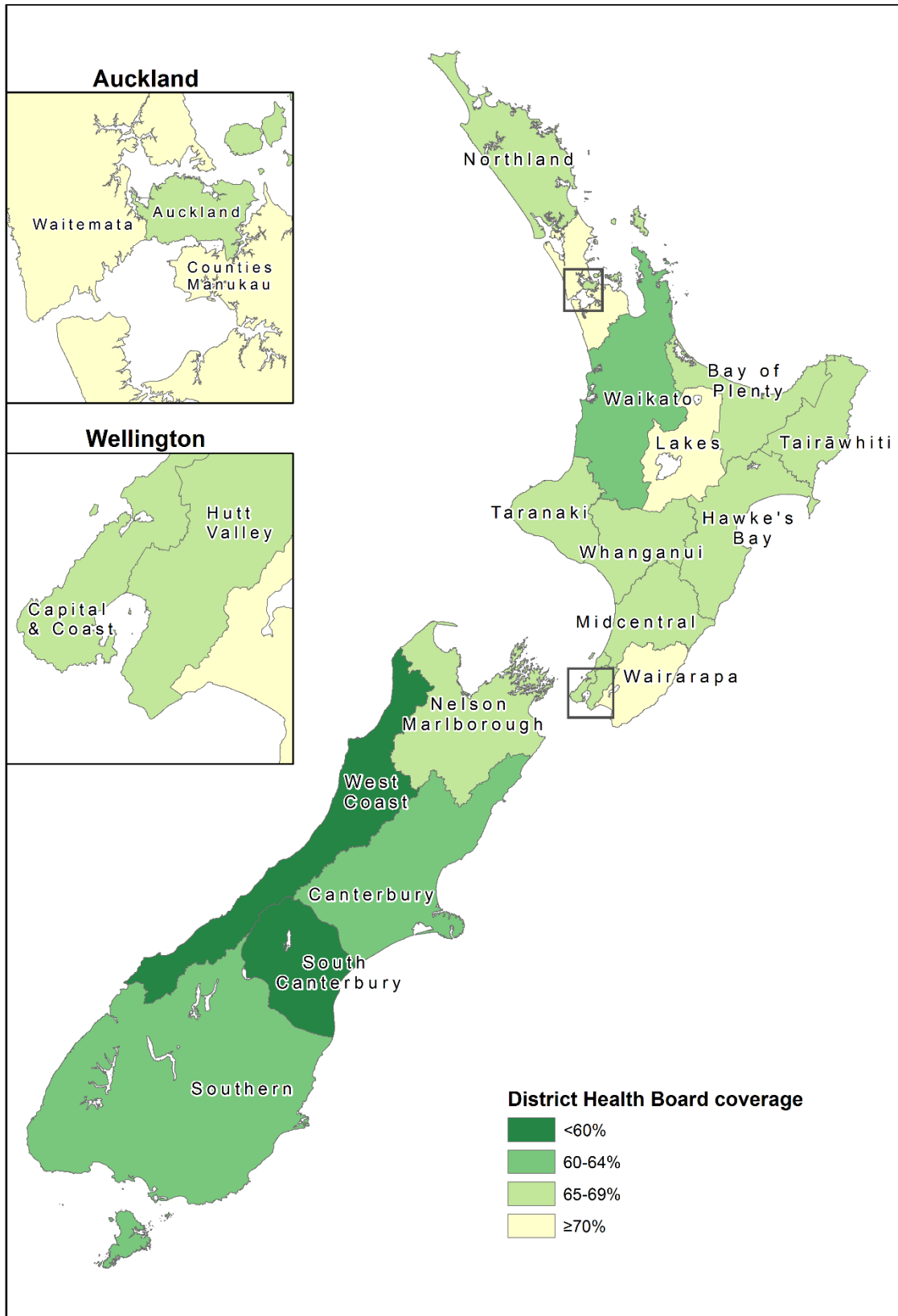


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2017 by District Health Board

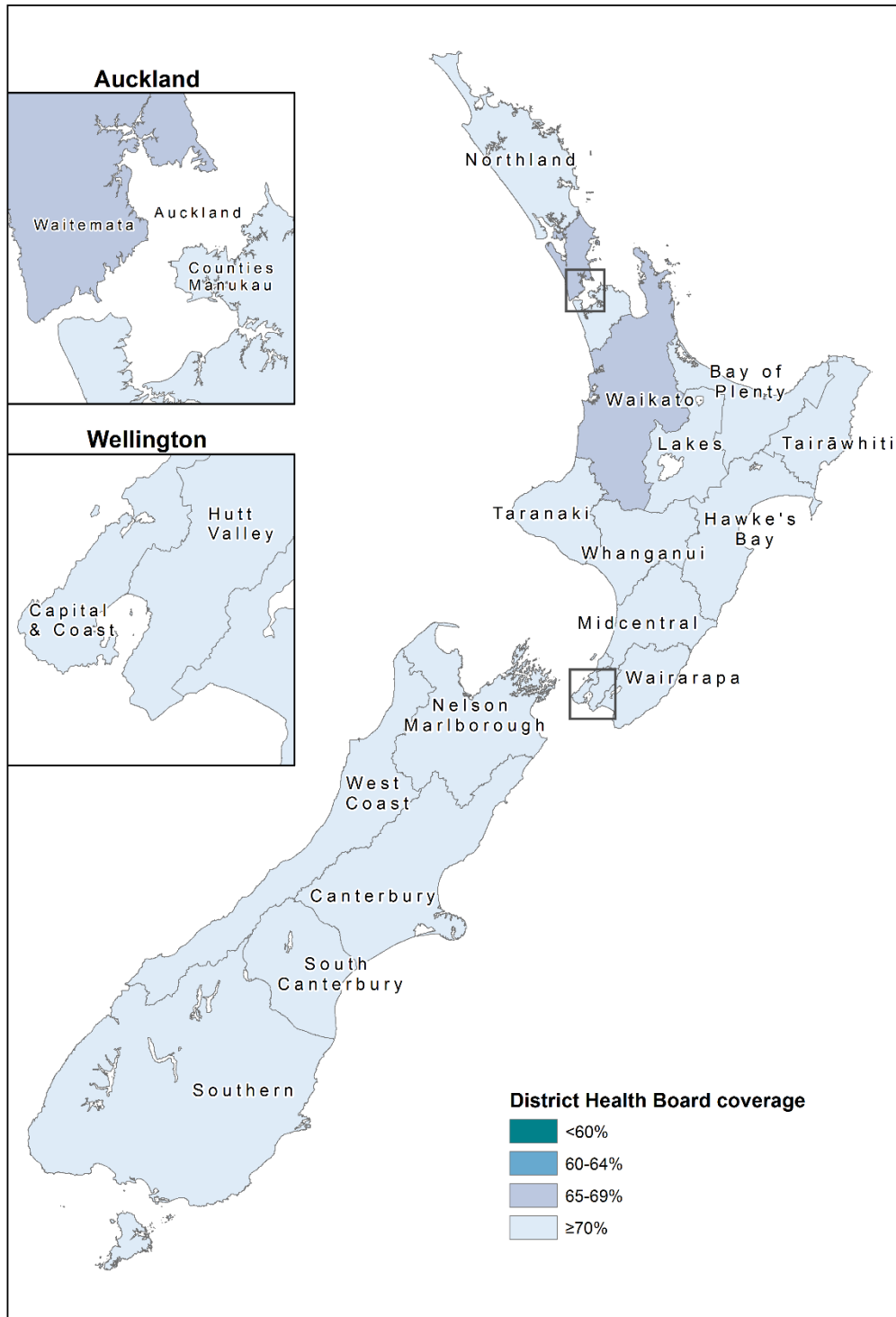


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 31 December 2017 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	Unspec.	Total	Māori	Pacific	Other	Total
Northland	5,890	280	18,215	24,385	4,104	189	13,239	8	17,540	69.7%	67.5%	72.7%	71.9%
Waitemata	4,720	3,495	60,940	69,155	2,956	2,460	40,158	32	45,606	62.6%	70.4%	65.9%	65.9%
Auckland	3,605	4,730	44,555	52,890	2,056	3,308	27,877	111	33,352	57.0%	69.9%	62.6%	63.1%
Counties Manukau	6,715	8,770	41,900	57,385	4,307	6,870	29,074	34	40,285	64.1%	78.3%	69.4%	70.2%
Waikato	7,600	830	39,720	48,150	4,457	503	28,241	132	33,333	58.6%	60.6%	71.1%	69.2%
Lakes	3,485	210	9,975	13,670	2,238	147	7,395	22	9,802	64.2%	70.0%	74.1%	71.7%
Bay of Plenty	5,260	280	24,850	30,390	3,150	187	17,897	45	21,279	59.9%	66.8%	72.0%	70.0%
Tairāwhiti	2,350	93	3,510	5,953	1,607	63	2,582	4	4,256	68.4%	67.7%	73.6%	71.5%
Taranaki	1,765	96	13,115	14,976	1,078	63	10,106	4	11,251	61.1%	65.6%	77.1%	75.1%
Hawke's Bay	3,660	400	18,035	22,095	2,489	270	13,485	12	16,256	68.0%	67.5%	74.8%	73.6%
Whanganui	1,560	112	6,929	8,601	1,095	73	5,508	2	6,678	70.2%	65.2%	79.5%	77.6%
MidCentral	2,735	360	18,915	22,010	1,798	249	14,829	2	16,878	65.7%	69.2%	78.4%	76.7%
Hutt Valley	2,070	950	14,910	17,930	1,442	657	11,160	18	13,277	69.7%	69.2%	74.8%	74.0%
Capital and Coast	2,720	1,880	30,405	35,005	1,820	1,307	22,350	50	25,527	66.9%	69.5%	73.5%	72.9%
Wairarapa	680	65	5,594	6,339	481	49	4,383	3	4,916	70.7%	75.4%	78.4%	77.6%
Nelson Marlborough	1,335	140	20,470	21,945	1,004	97	16,408	30	17,539	75.2%	69.3%	80.2%	79.9%
West Coast	385	25	4,231	4,641	250	9	3,228	19	3,506	64.9%	36.0%	76.3%	75.5%
Canterbury	3,500	895	62,300	66,695	2,424	567	47,754	55	50,800	69.3%	63.4%	76.7%	76.2%
South Canterbury	395	39	8,070	8,504	272	22	6,183	5	6,482	68.9%	56.4%	76.6%	76.2%
Southern	2,365	325	37,555	40,245	1,568	196	28,203	41	30,008	66.3%	60.3%	75.1%	74.6%
Unspecified DHB					150	39	1,606	3	1,798				
Total	62,795	23,975	484,194	570,964	40,746	17,325	351,666	632	410,369	64.9%	72.3%	72.6%	71.9%

DHB coverage comparison trends by ethnicity

Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December, 2015, 2016, 2017, by ethnicity and District Health Board

DHB	Māori			Pacific			Other		
	Dec 2015	Dec 2016	Dec 2017	Dec 2015	Dec 2016	Dec 2017	Dec 2015	Dec 2016	Dec 2017
Northland	69.0%	70.1%	69.7%	69.8%	71.4%	67.5%	72.0%	73.9%	72.7%
Waitemata	66.0%	64.5%	62.6%	73.6%	71.0%	70.4%	69.3%	68.4%	65.9%
Auckland	61.4%	58.1%	57.0%	75.1%	73.6%	69.9%	65.4%	64.4%	62.6%
Counties Manukau	65.9%	62.4%	64.1%	79.6%	74.9%	78.3%	68.5%	68.2%	69.4%
Waikato	59.8%	58.2%	58.6%	63.2%	57.1%	60.6%	70.1%	68.8%	71.1%
Lakes	62.0%	60.7%	64.2%	52.5%	61.0%	70.0%	70.9%	69.8%	74.1%
Bay of Plenty	59.5%	61.1%	59.9%	72.9%	69.6%	66.8%	73.6%	73.4%	72.0%
Tairāwhiti	65.6%	68.5%	68.4%	59.1%	63.7%	67.7%	72.0%	72.1%	73.6%
Taranaki	61.7%	60.8%	61.1%	65.4%	62.0%	65.6%	75.6%	76.3%	77.1%
Hawke's Bay	67.7%	67.0%	68.0%	66.9%	66.4%	67.5%	74.6%	75.0%	74.8%
Whanganui	71.3%	72.0%	70.2%	70.9%	72.6%	65.2%	78.6%	79.2%	79.5%
MidCentral	65.2%	65.6%	65.7%	66.9%	66.5%	69.2%	77.4%	78.0%	78.4%
Hutt Valley	65.6%	67.2%	69.7%	64.3%	67.1%	69.2%	73.0%	76.4%	74.8%
Capital and Coast	64.9%	67.3%	66.9%	66.6%	68.8%	69.5%	72.5%	73.7%	73.5%
Wairarapa	69.7%	69.8%	70.7%	81.0%	73.0%	75.4%	76.5%	77.1%	78.4%
Nelson Marlborough	75.0%	75.4%	75.2%	60.0%	66.7%	69.3%	79.4%	80.4%	80.2%
West Coast	70.3%	68.8%	64.9%	40.0%	35.0%	36.0%	75.8%	78.2%	76.3%
Canterbury	71.9%	69.6%	69.3%	64.5%	64.0%	63.4%	79.6%	78.5%	76.7%
South Canterbury	70.5%	67.8%	68.9%	53.3%	51.5%	56.4%	79.5%	78.7%	76.6%
Southern	64.5%	66.2%	66.3%	60.7%	60.0%	60.3%	71.3%	75.6%	75.1%
Total	65.2%	64.7%	64.9%	73.7%	71.5%	72.3%	72.9%	73.1%	72.6%