

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
31 March 2017

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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 March 2017 was extracted from the national BreastScreen Aotearoa database (the Database) on 20 April 2017.

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 March 2015, 31 March 2016 and 31 March 2017 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2015 update, based on the 2013 Census.

From June 2016, the National Screening Unit (NSU) begins 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 March 2015, the denominator is the population estimate for 31 March 2014
- 31 March 2016, the denominator is the projected population for 31 March 2015
- 31 March 2017, the denominator is the projected population for 31 March 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 March 2017

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

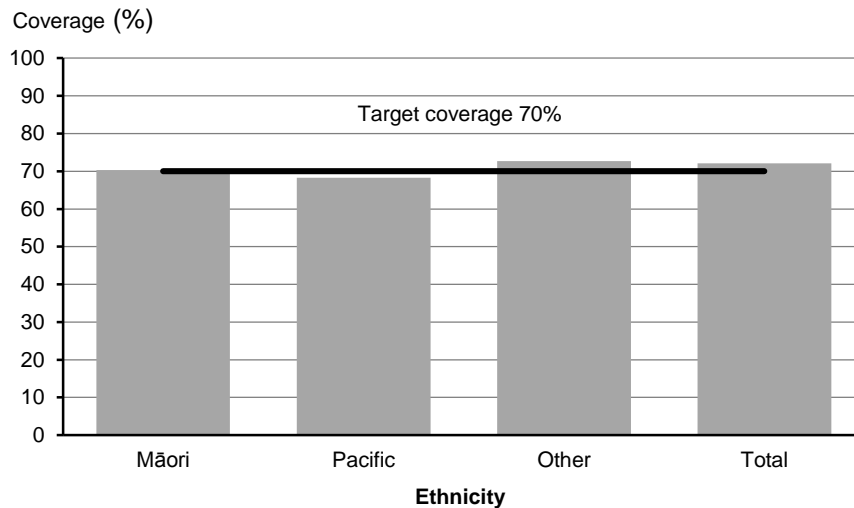


Table 1: BSA coverage (%) in the two years ending 31 March 2017 by ethnicity, women aged 50–69 years, Northland Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	5,739	4,036	70.30%	
Pacific	259	177	68.30%	4
Other	18,227	13,257	72.70%	
Unspecified		8		
Total	24,225	17,478	72.10%	

*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 March 2017 by ethnicity, Northland Coverage

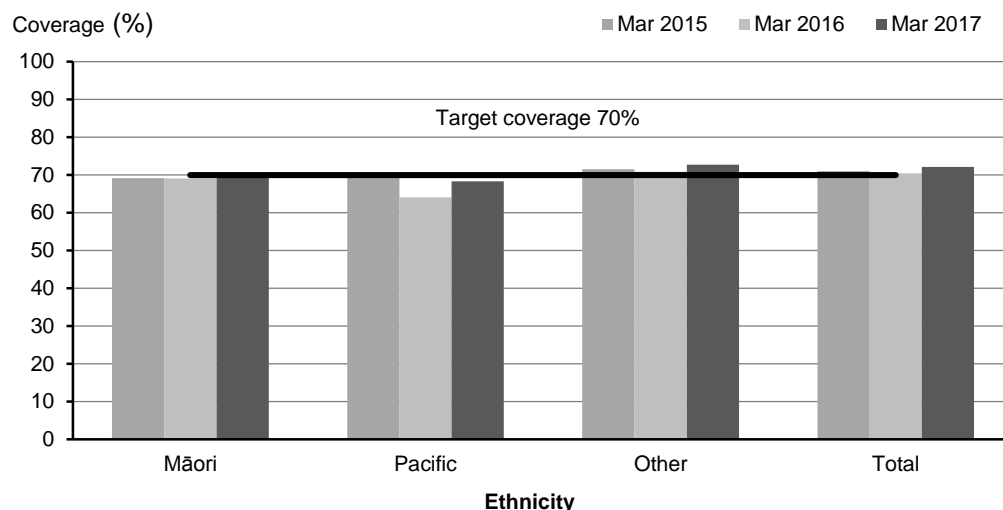


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 1 2016 –Quarter 1 2017

Ethnicity	Number of screens by quarter				
	Q1 (Jan - Mar) 2016	Q2 (Apr - Jun) 2016	Q3 (Jul - Sep) 2016	Q4 (Oct - Dec) 2016	Q1 (Jan-Mar) 2017
Māori	519	623	462	439	537
Pacific	24	24	23	21	23
Other	1,488	2,019	1,872	1,363	1,448
Total	2,031	2,666	2,357	1,823	2,008

DHB coverage comparisons

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

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

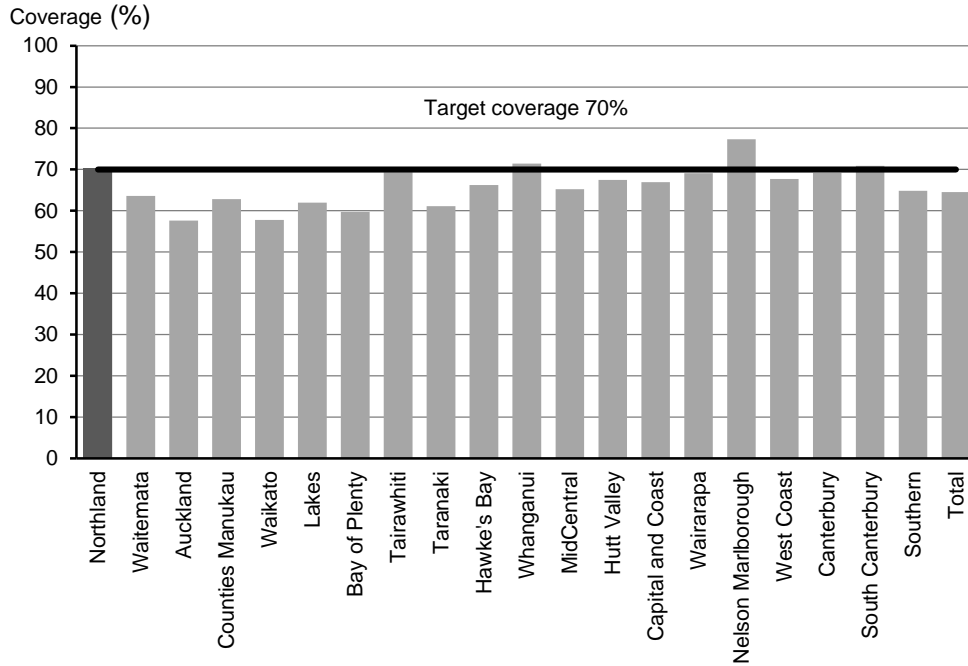


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2017 by District Health Board

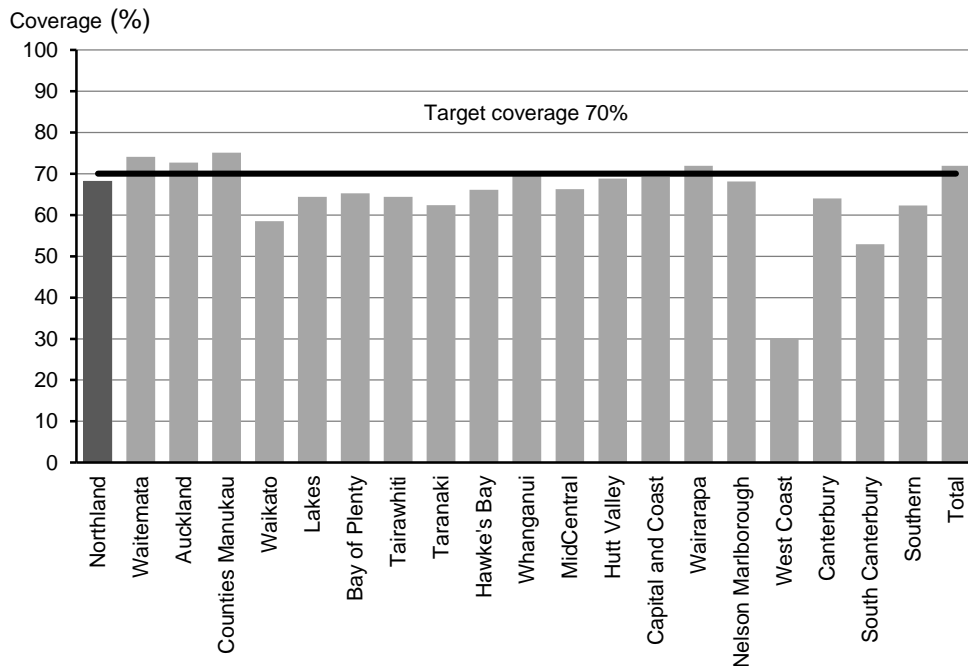


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2017 by District Health Board

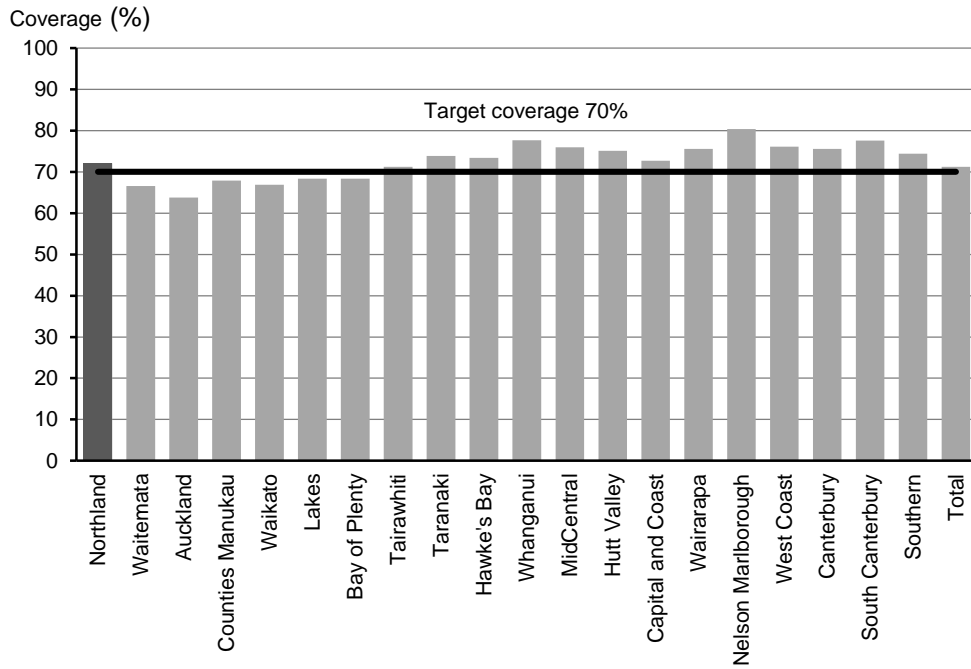


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 March 2017

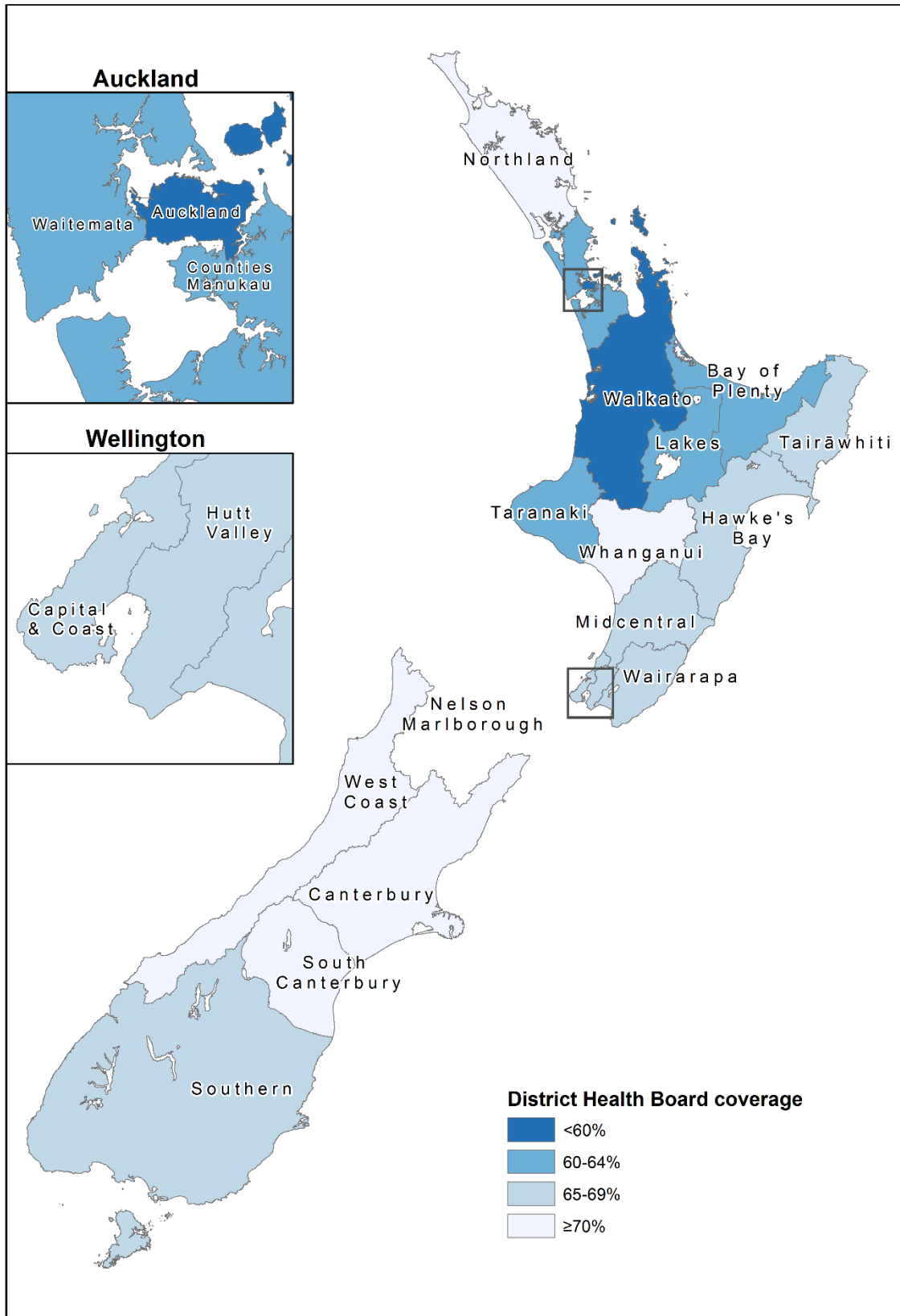


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2017

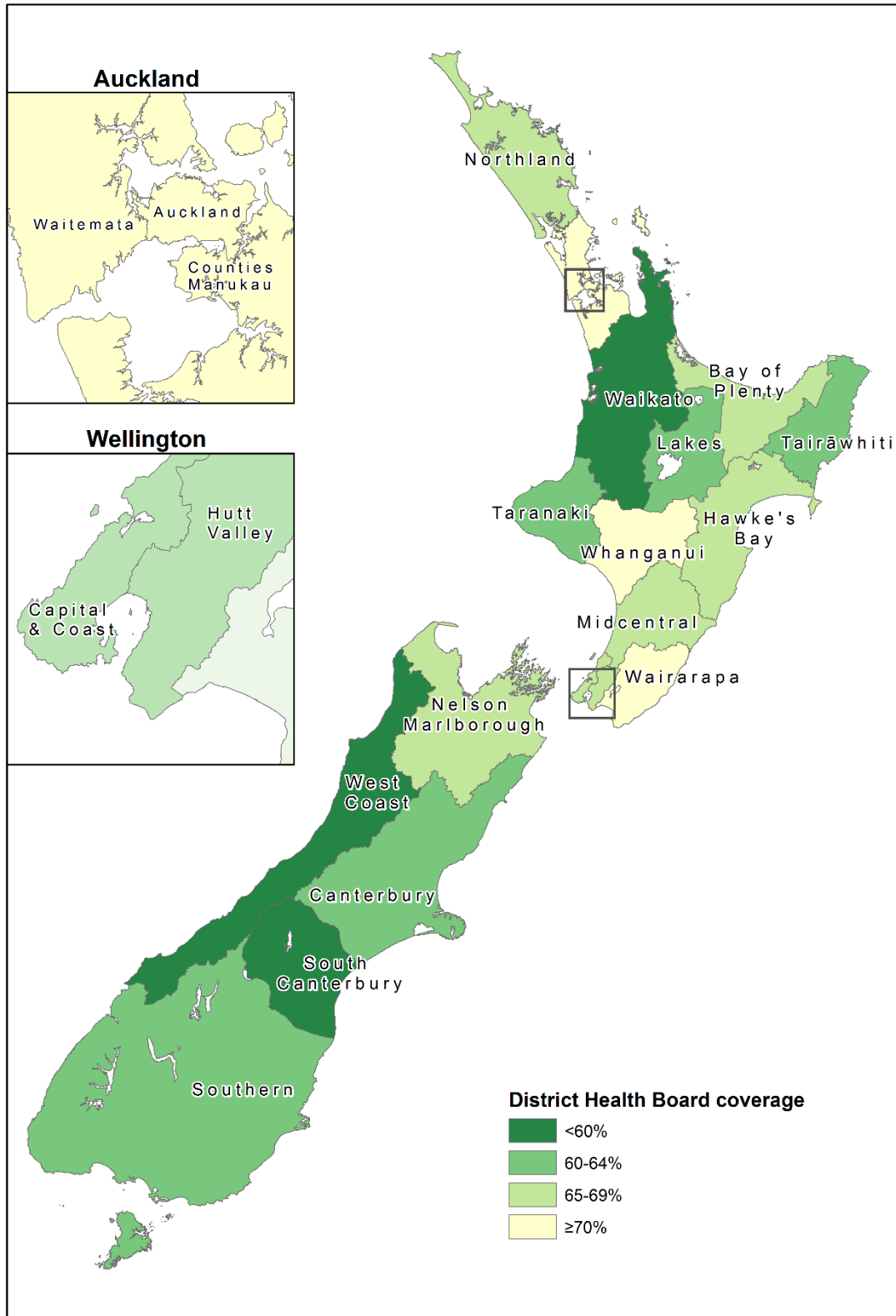


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2017 by District Health Board

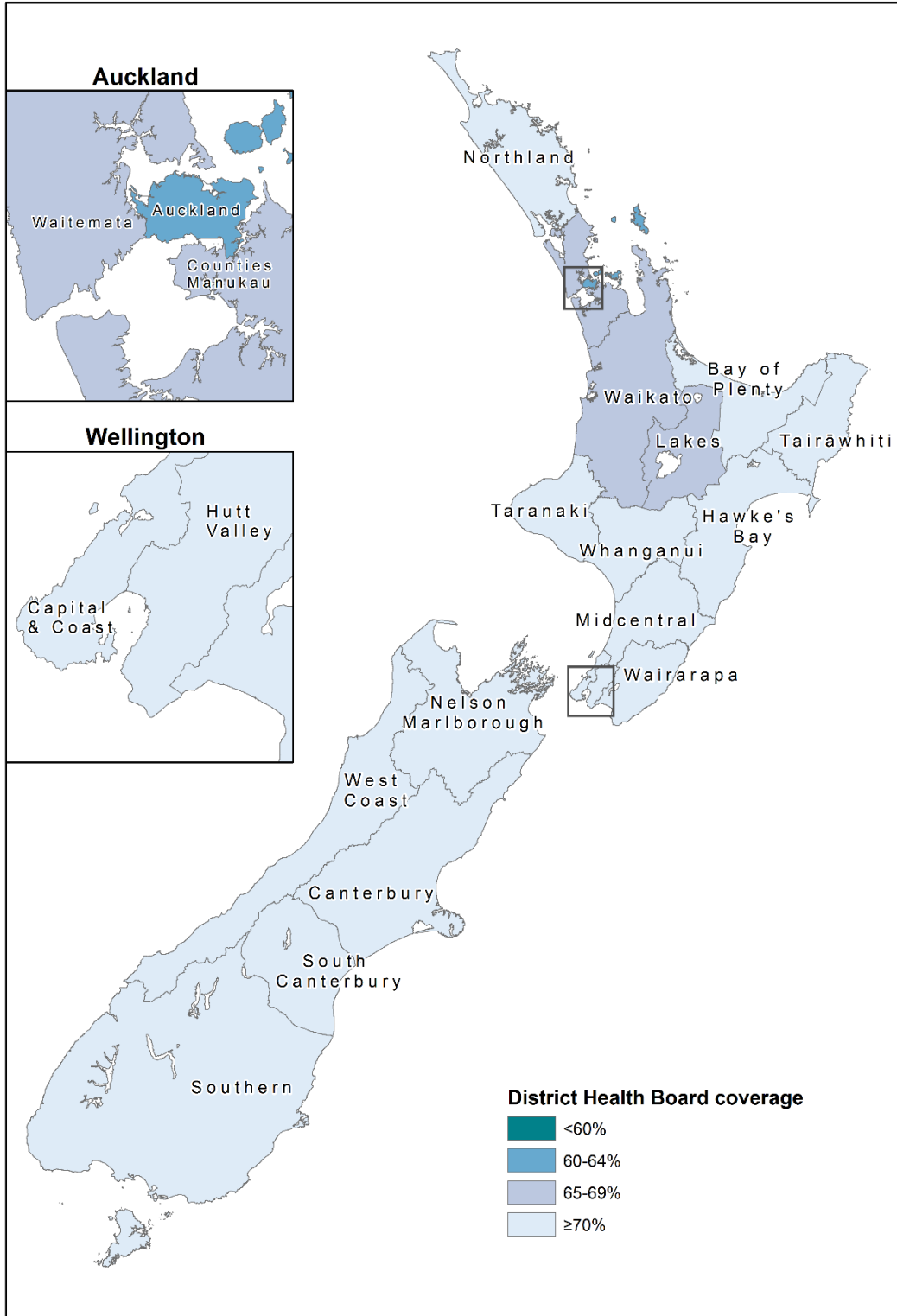


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 31 March 2017 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	Unspecified	Total	Māori	Pacific	Other	Total
Northland	5,739	259	18,227	24,225	4,036	177	13,257	8	17,478	70.3%	68.3%	72.7%	72.1%
Waitemata	4,551	3,416	60,999	68,966	2,893	2,531	40,456	29	45,909	63.6%	74.1%	66.3%	66.6%
Auckland	3,520	4,634	44,434	52,588	2,027	3,370	28,063	112	33,572	57.6%	72.7%	63.2%	63.8%
Counties Manukau	6,466	8,513	42,153	57,132	4,058	6,390	28,292	39	38,779	62.8%	75.1%	67.1%	67.9%
Waikato	7,411	803	39,692	47,906	4,286	470	27,176	114	32,046	57.8%	58.5%	68.5%	66.9%
Lakes	3,374	208	9,980	13,562	2,092	134	7,031	26	9,283	62.0%	64.4%	70.5%	68.4%
Bay of Plenty	5,161	271	24,997	30,429	3,082	177	17,495	51	20,805	59.7%	65.3%	70.0%	68.4%
Tairāwhiti	2,294	90	3,525	5,909	1,590	58	2,559	1	4,208	69.3%	64.4%	72.6%	71.2%
Taranaki	1,695	93	13,181	14,969	1,036	58	9,954	7	11,055	61.1%	62.4%	75.5%	73.9%
Hawke's Bay	3,573	398	17,987	21,958	2,366	263	13,481	7	16,117	66.2%	66.1%	74.9%	73.4%
Whanganui	1,516	105	6,935	8,556	1,082	74	5,486	3	6,645	71.4%	70.5%	79.1%	77.7%
MidCentral	2,659	359	18,977	21,995	1,734	238	14,731	8	16,711	65.2%	66.3%	77.6%	76.0%
Hutt Valley	2,026	935	14,801	17,762	1,367	643	11,302	19	13,331	67.5%	68.8%	76.4%	75.1%
Capital and Coast	2,655	1,868	29,999	34,522	1,776	1,292	21,983	47	25,098	66.9%	69.2%	73.3%	72.7%
Wairarapa	663	64	5,616	6,343	458	46	4,287	4	4,795	69.1%	71.9%	76.3%	75.6%
Nelson Marlborough	1,298	138	20,320	21,756	1,003	94	16,367	30	17,494	77.3%	68.1%	80.5%	80.4%
West Coast	378	20	4,204	4,602	256	6	3,220	21	3,503	67.7%	30.0%	76.6%	76.1%
Canterbury	3,403	859	62,312	66,574	2,355	550	47,326	70	50,301	69.2%	64.0%	76.0%	75.6%
South Canterbury	388	34	8,043	8,465	275	18	6,270	5	6,568	70.9%	52.9%	78.0%	77.6%
Southern	2,289	318	37,457	40,064	1,484	198	28,092	48	29,822	64.8%	62.3%	75.0%	74.4%
Total	61,059	23,385	483,839	568,283	39,372	16,822	347,961	652	404,807	64.5%	71.9%	71.9%	71.2%

DHB coverage comparison trends by ethnicity

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

DHB	Māori			Pacific			Other		
	Mar 2015	Mar 2016	Mar 2017	Mar 2015	Mar 2016	Mar 2017	Mar 2015	Mar 2016	Mar 2017
Northland	69.2%	69.1%	70.3%	70.3%	64.1%	68.3%	71.5%	70.9%	72.7%
Waitemata	64.7%	64.1%	63.6%	76.2%	75.2%	74.1%	67.6%	67.5%	66.3%
Auckland	63.4%	60.2%	57.6%	76.1%	75.1%	72.7%	65.3%	63.6%	63.2%
Counties Manukau	67.8%	65.2%	62.8%	79.5%	77.8%	75.1%	68.5%	67.9%	67.1%
Waikato	58.1%	59.8%	57.8%	63.4%	62.9%	58.5%	69.4%	69.1%	68.5%
Lakes	65.0%	61.6%	62.0%	47.8%	51.5%	64.4%	71.3%	69.1%	70.5%
Bay of Plenty	59.1%	59.9%	59.7%	77.3%	70.8%	65.3%	71.0%	72.2%	70.0%
Tairāwhiti	65.2%	66.2%	69.3%	54.9%	56.2%	64.4%	70.8%	71.7%	72.6%
Taranaki	62.2%	61.3%	61.1%	58.1%	62.7%	62.4%	75.2%	75.3%	75.5%
Hawke's Bay	64.6%	67.4%	66.2%	67.3%	65.9%	66.1%	73.6%	74.2%	74.9%
Whanganui	70.2%	71.8%	71.4%	71.1%	75.0%	70.5%	76.5%	78.5%	79.1%
MidCentral	62.2%	64.4%	65.2%	68.7%	66.0%	66.3%	76.1%	77.0%	77.6%
Hutt Valley	66.1%	65.7%	67.5%	66.3%	64.7%	68.8%	75.3%	74.1%	76.4%
Capital and Coast	61.7%	65.5%	66.9%	62.7%	67.2%	69.2%	71.2%	72.8%	73.3%
Wairarapa	65.1%	70.3%	69.1%	79.6%	81.4%	71.9%	73.2%	75.0%	76.3%
Nelson Marlborough	75.2%	72.9%	77.3%	61.0%	64.8%	68.1%	78.7%	79.2%	80.5%
West Coast	76.3%	70.5%	67.7%	36.8%	35.0%	30.0%	76.4%	77.7%	76.6%
Canterbury	74.9%	71.5%	69.2%	65.0%	62.9%	64.0%	79.9%	78.6%	76.0%
South Canterbury	73.7%	73.1%	70.9%	50.0%	56.7%	52.9%	79.2%	79.2%	78.0%
Southern	66.2%	62.5%	64.8%	61.0%	56.5%	62.3%	74.3%	72.3%	75.0%
Total	65.2%	64.8%	64.5%	74.2%	73.2%	71.9%	72.6%	72.1%	71.9%