

BSA New Zealand All District Health Board Coverage Report

For the period ending
31 December 2016

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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 December 2016 was extracted from the national BreastScreen Aotearoa database (the Database) on 17 January 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 December 2014, 31 December 2015 and 31 December 2016 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 December 2014, the denominator is the population estimate for 31 December 2013
- 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

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.

All coverage

All coverage by ethnicity in the two years ending 31 December 2016

Figure 1: BSA coverage (%) in the two years ending 31 December 2016 by ethnicity, women aged 50–69 years, Total Coverage

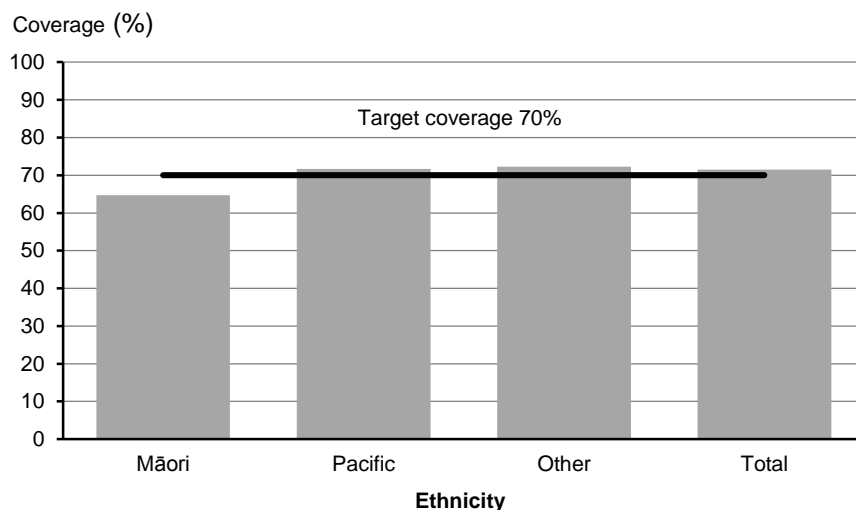


Table 1: BSA coverage (%) in the two years ending 31 December 2016 by ethnicity, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	60,465	39,106	64.70%	3,219
Pacific	23,170	16,606	71.70%	
Other	481,189	347,676	72.30%	
Unspecified		628		
Total	564,824	404,016	71.50%	

*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%.

All coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2016 by ethnicity, Total Coverage

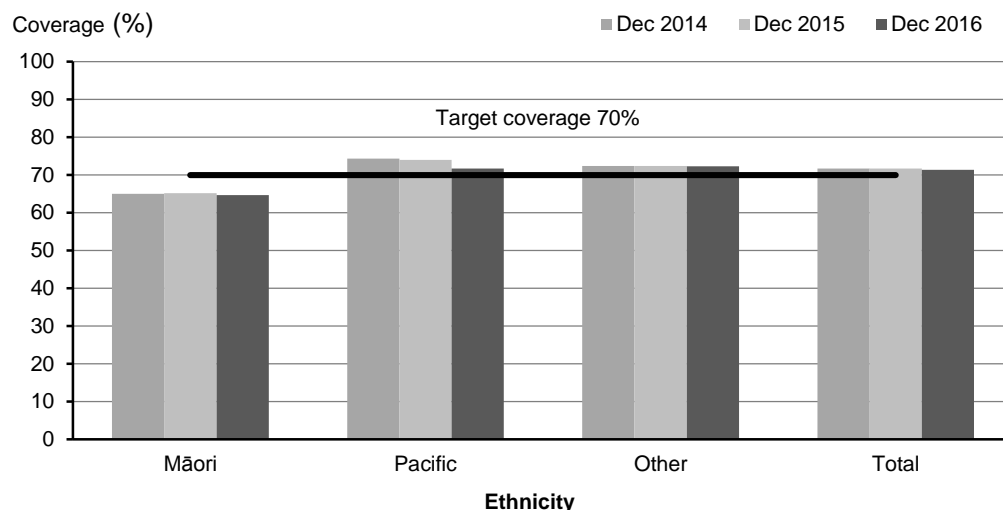


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 4 2015 –Quarter 4 2016, All District Health Boards

Ethnicity	Number of screens by quarter				
	Q4 (Oct - Dec) 2015	Q1 (Jan - Mar) 2016	Q2 (Apr - Jun) 2016	Q3 (Jul - Sep) 2016	Q4 (Oct - Dec) 2016
Māori	4,289	5,064	5,512	4,762	4,334
Pacific	1,963	1,823	2,135	2,186	2,084
Other	37,051	40,823	49,360	47,008	37,882
Total	43,303	47,710	57,007	53,956	44,300

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 31 December 2016

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2016 by District Health Board

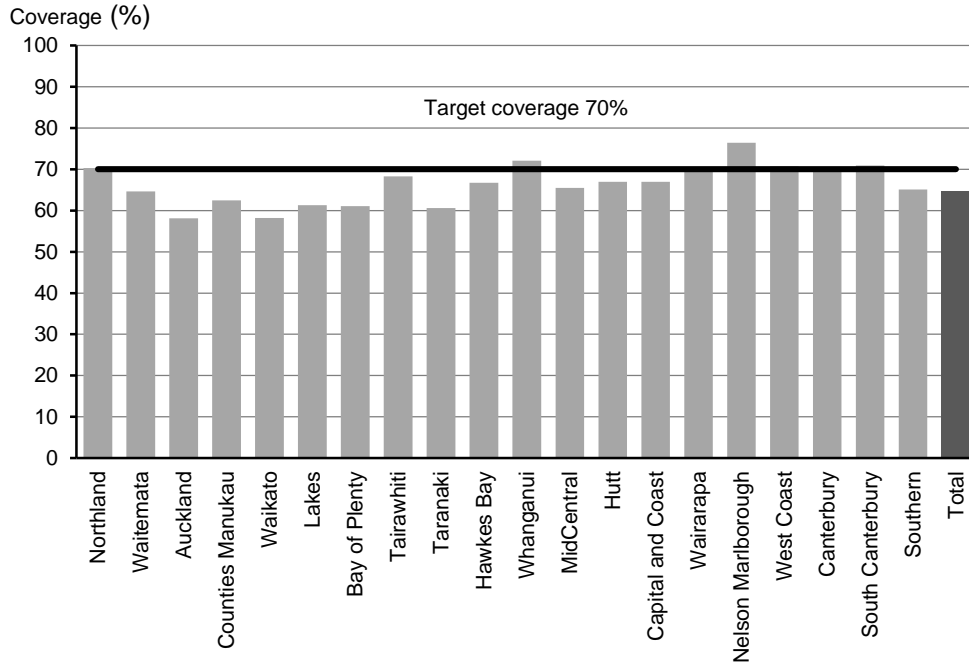


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2016 by District Health Board

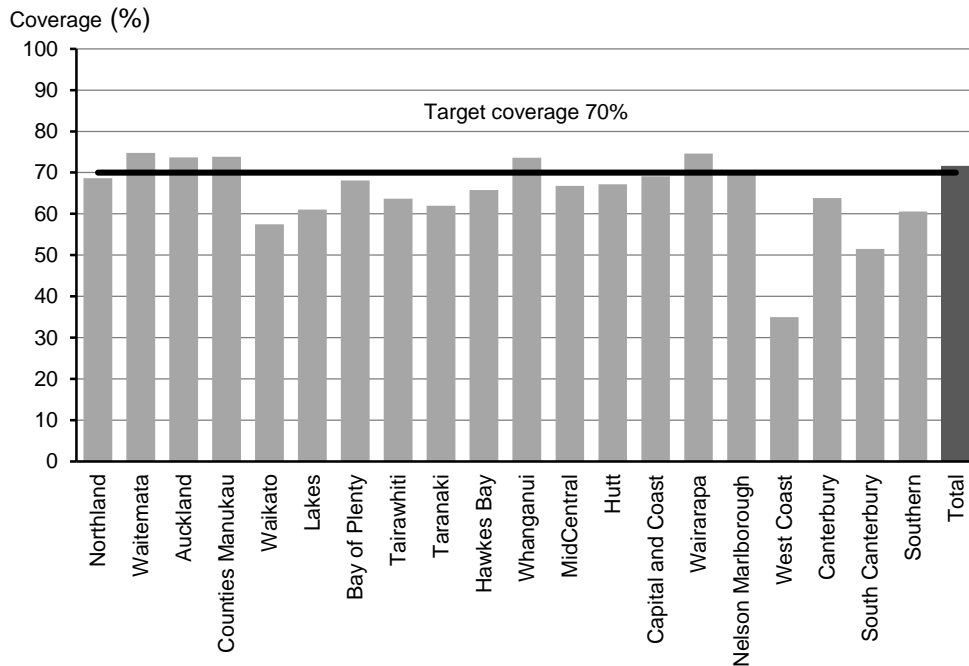


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2016 by District Health Board

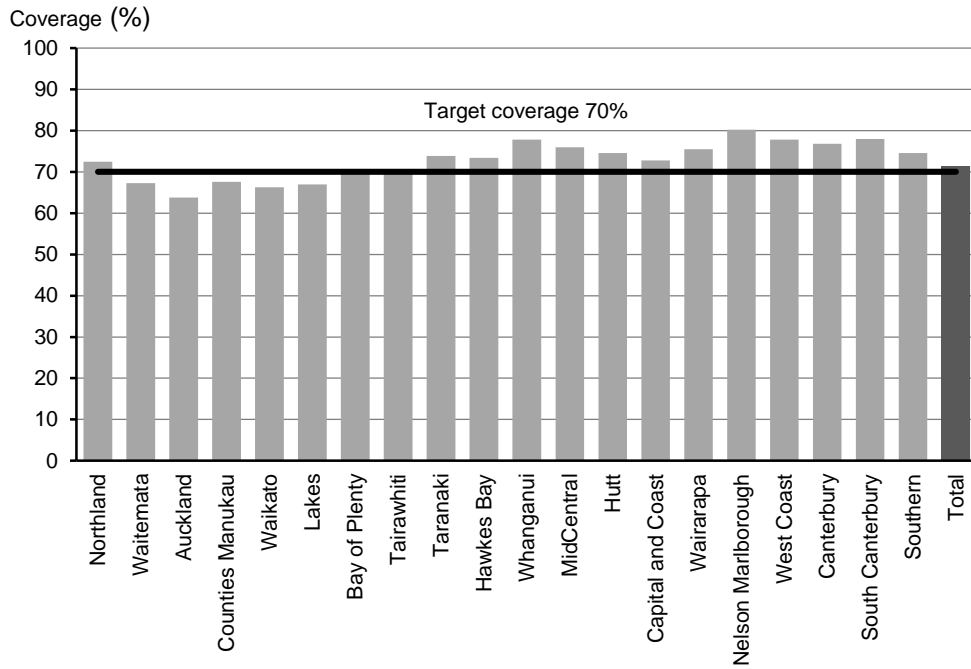


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2016

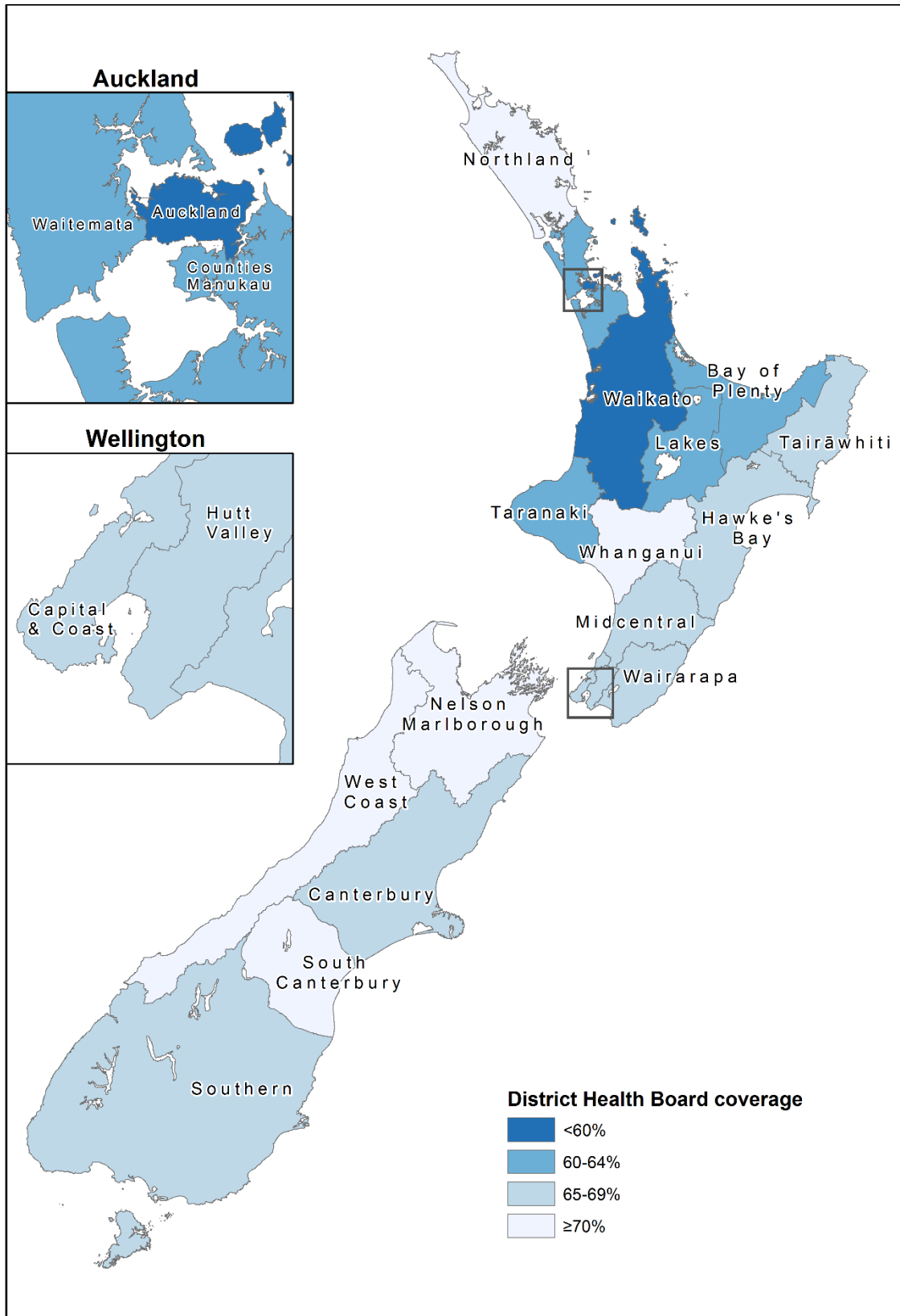


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2016

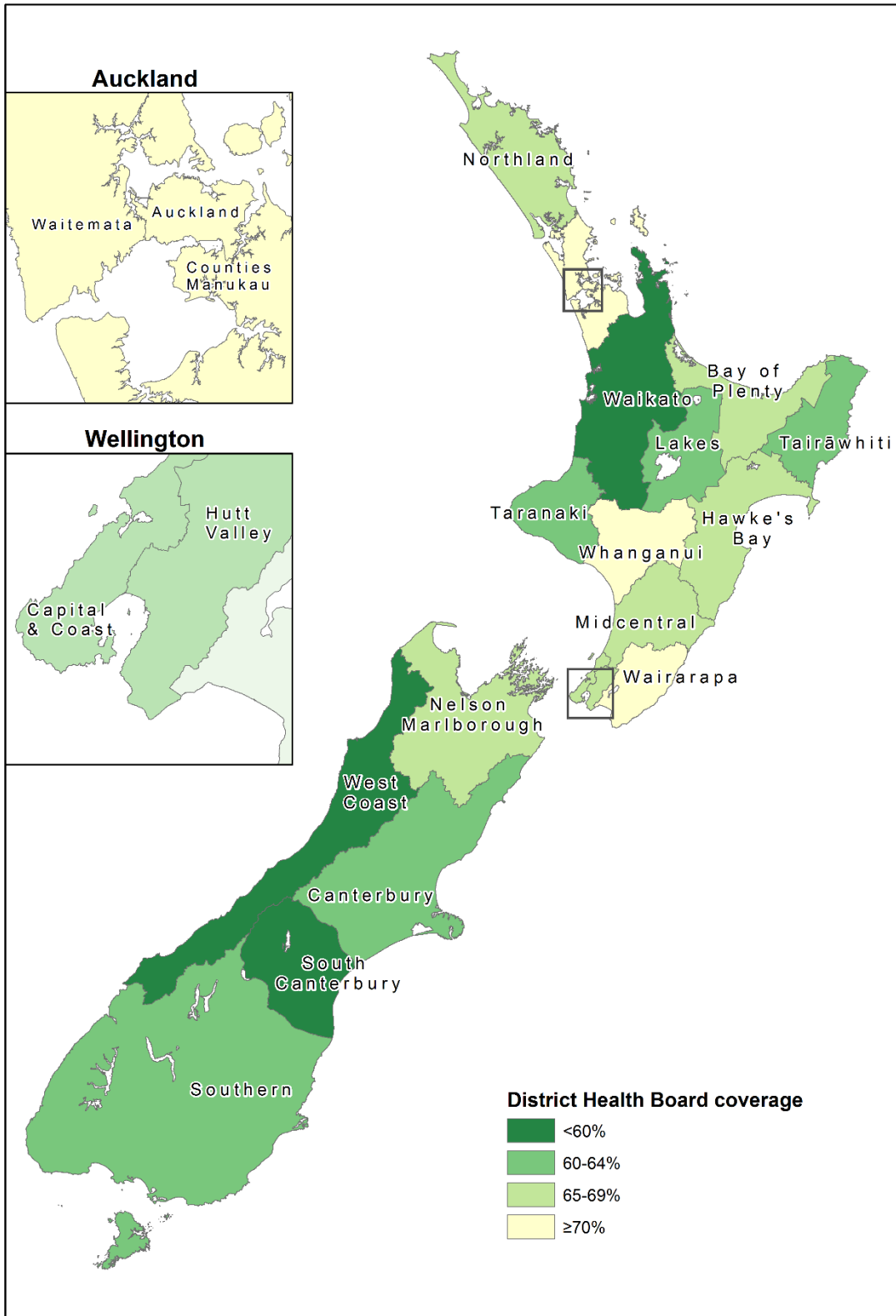


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2016 by District Health Board

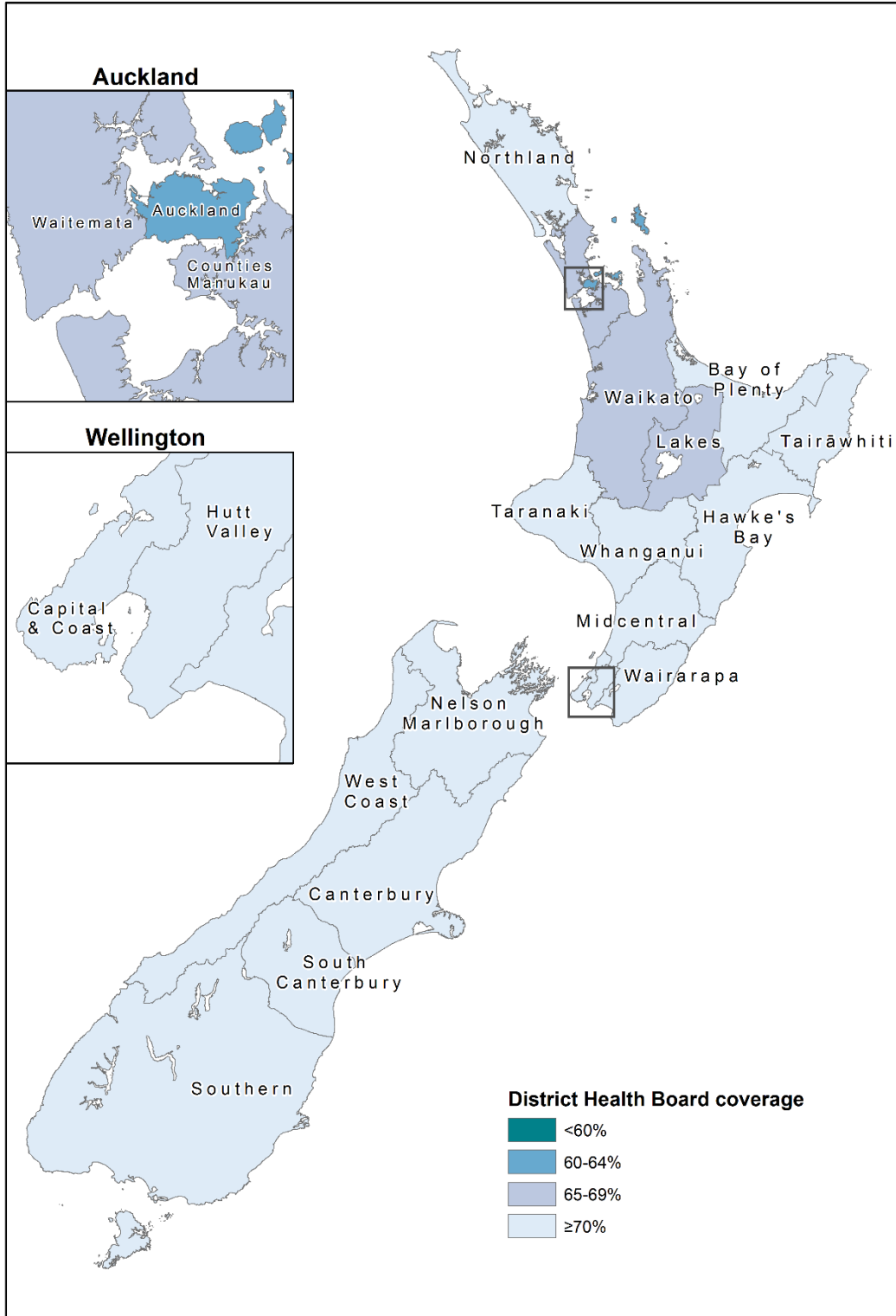


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 31 December 2016 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A	Total	Māori	Pacific	Other	Total
Northland	5,695	255	18,190	24,140	4,003	175	13,313	8	17,499	70.3%	68.6%	73.2%	72.5%
Waitemata	4,500	3,380	60,585	68,465	2,907	2,528	40,661	27	46,123	64.6%	74.8%	67.1%	67.4%
Auckland	3,490	4,595	44,045	52,130	2,028	3,388	27,850	113	33,379	58.1%	73.7%	63.2%	64.0%
Counties Manukau	6,400	8,435	41,860	56,695	3,998	6,227	28,115	32	38,372	62.5%	73.8%	67.2%	67.7%
Waikato	7,350	795	39,490	47,635	4,276	457	26,830	108	31,671	58.2%	57.5%	67.9%	66.5%
Lakes	3,345	205	9,965	13,515	2,049	125	6,886	27	9,087	61.3%	61.0%	69.1%	67.2%
Bay of Plenty	5,120	260	24,830	30,210	3,126	177	17,851	50	21,204	61.1%	68.1%	71.9%	70.2%
Tairāwhiti	2,275	91	3,518	5,884	1,553	58	2,522	1	4,134	68.3%	63.7%	71.7%	70.3%
Taranaki	1,680	92	13,140	14,912	1,018	57	9,941	5	11,021	60.6%	62.0%	75.7%	73.9%
Hawkes Bay	3,545	395	17,930	21,870	2,363	260	13,433	6	16,062	66.7%	65.8%	74.9%	73.4%
Whanganui	1,500	106	6,933	8,539	1,081	78	5,483	1	6,643	72.1%	73.6%	79.1%	77.8%
MidCentral	2,625	355	18,920	21,900	1,719	237	14,697	5	16,658	65.5%	66.8%	77.7%	76.1%
Hutt Valley	2,000	930	14,750	17,680	1,339	625	11,222	18	13,204	67.0%	67.2%	76.1%	74.7%
Capital and Coast	2,630	1,865	29,785	34,280	1,763	1,288	21,900	44	24,995	67.0%	69.1%	73.5%	72.9%
Wairarapa	655	63	5,601	6,319	458	47	4,268	3	4,776	69.9%	74.6%	76.2%	75.6%
Nelson Marlborough	1,285	135	20,235	21,655	982	94	16,281	36	17,393	76.4%	69.6%	80.5%	80.3%
West Coast	375	20	4,191	4,586	265	7	3,294	26	3,592	70.7%	35.0%	78.6%	78.3%
Canterbury	3,355	845	61,900	66,100	2,347	539	47,888	69	50,843	70.0%	63.8%	77.4%	76.9%
South Canterbury	385	33	8,011	8,429	273	17	6,284	2	6,576	70.9%	51.5%	78.4%	78.0%
Southern	2,255	315	37,310	39,880	1,469	191	28,100	44	29,804	65.1%	60.6%	75.3%	74.7%
Unspecified					89	31	857	3					
Total	60,465	23,170	481,189	564,824	39,106	16,606	347,676	347,676	404,016	64.7%	71.7%	72.3%	71.5%

DHB coverage comparison trends by ethnicity

Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December, 2014, 2015, 2016, by ethnicity and District Health Board

DHB	Māori			Pacific			Other		
	Dec 2014	Dec 2015	Dec 2016	Dec 2014	Dec 2015	Dec 2016	Dec 2014	Dec 2015	Dec 2016
Northland	69.0%	69.0%	70.3%	70.4%	66.9%	68.6%	71.0%	71.3%	73.2%
Waitemata	65.4%	65.9%	64.6%	76.7%	77.9%	74.8%	67.6%	68.5%	67.1%
Auckland	63.7%	61.7%	58.1%	77.0%	75.3%	73.7%	65.6%	64.5%	63.2%
Counties Manukau	69.0%	65.8%	62.5%	80.7%	78.4%	73.8%	69.0%	68.0%	67.2%
Waikato	57.0%	59.8%	58.2%	63.7%	63.7%	57.5%	69.1%	69.5%	67.9%
Lakes	63.1%	62.2%	61.3%	49.0%	53.5%	61.0%	70.4%	70.0%	69.1%
Bay of Plenty	58.1%	59.5%	61.1%	72.9%	71.1%	68.1%	68.4%	72.4%	71.9%
Tairāwhiti	64.1%	65.2%	68.3%	56.4%	58.0%	63.7%	71.4%	71.6%	71.7%
Taranaki	61.5%	61.3%	60.6%	59.5%	65.4%	62.0%	75.3%	75.4%	75.7%
Hawkes Bay	64.9%	67.3%	66.7%	66.4%	67.2%	65.8%	73.6%	74.6%	74.9%
Whanganui	68.8%	71.4%	72.1%	67.7%	71.8%	73.6%	76.1%	78.4%	79.1%
MidCentral	62.9%	65.1%	65.5%	67.4%	66.9%	66.8%	75.8%	77.1%	77.7%
Hutt Valley	66.3%	65.5%	67.0%	66.0%	64.5%	67.2%	74.9%	72.6%	76.1%
Capital and Coast	60.3%	64.8%	67.0%	58.7%	67.1%	69.1%	70.0%	72.3%	73.5%
Wairarapa	66.0%	69.8%	69.9%	77.4%	81.0%	74.6%	73.0%	75.8%	76.2%
Nelson Marlborough	78.8%	76.3%	76.4%	62.6%	64.0%	69.6%	80.2%	79.4%	80.5%
West Coast	73.5%	72.5%	70.7%	30.4%	40.0%	35.0%	77.1%	76.3%	78.6%
Canterbury	75.2%	72.8%	70.0%	63.7%	63.6%	63.8%	79.9%	78.8%	77.4%
South Canterbury	72.2%	74.3%	70.9%	46.7%	53.3%	51.5%	79.0%	79.2%	78.4%
Southern	65.5%	63.1%	65.1%	59.2%	60.7%	60.6%	73.7%	71.1%	75.3%
Total	64.7%	65.0%	64.5%	74.1%	73.9%	71.5%	72.1%	72.1%	72.1%