

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
31 March 2018

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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 screening support service providers in defined geographical areas providing recruitment and retention, and support services for Māori, Pacific and other priority group 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 2018 was extracted from the national BreastScreen Aotearoa database (the Database) on 20 April 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 March 2016, March 2017 and March 2018 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) 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. 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 2016, the denominator is the projected population for 31 March 2015
- 31 March 2017, the denominator is the projected population for 31 March 2016
- 31 March 2018, the denominator is the projected population for 31 March 2017

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 2018

Figure 1: BSA coverage (%) in the two years ending 31 March 2018 by ethnicity, women aged 50–69 years, Total Coverage

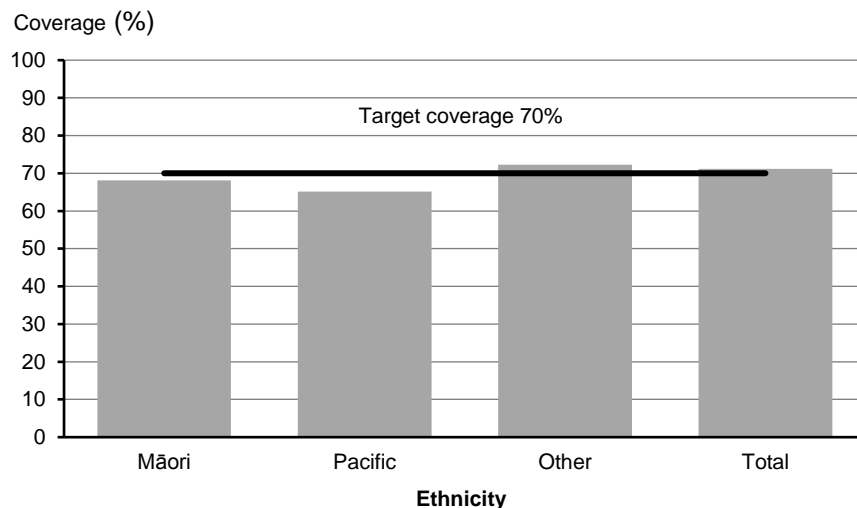


Table 1: BSA coverage (%) in the two years ending 31 March 2018 by ethnicity, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	5,936	4,041	68.10%	114
Pacific	292	190	65.10%	14
Other	18,255	13,194	72.30%	
Unspecified		10		
Total	24,483	17,435	71.20%	

*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 2018 by ethnicity, Total Coverage

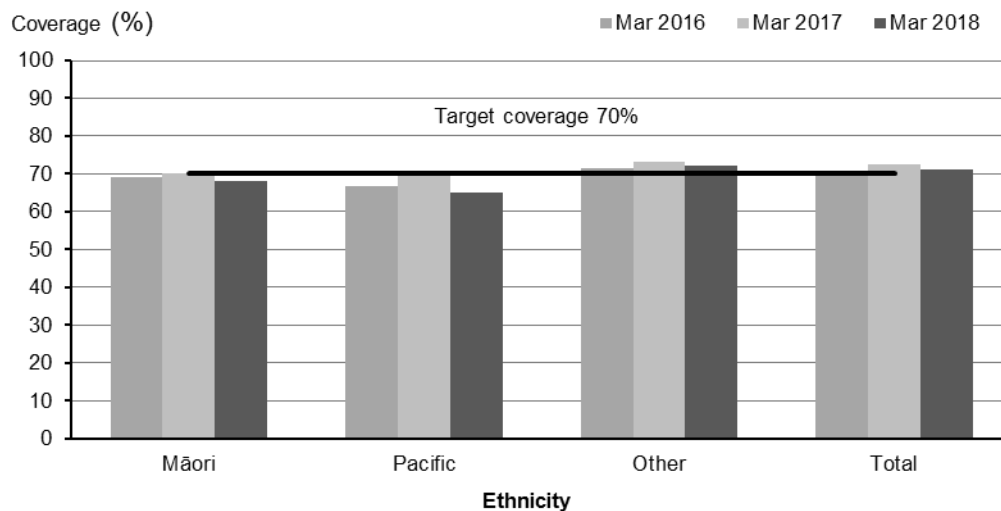


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 1 2017 –Quarter 1 2018

Ethnicity	Number of screens by quarter				
	Q1 (Jan-Mar) 2017	Q2 (Apr - Jun) 2017	Q3 (Jun - Sep) 2017	Q4 (Oct- Dec) 2017	Q1 (Jan - Mar) 2018
Māori	537	468	655	445	472
Pacific	23	21	26	26	25
Other	1,448	1,815	1,772	1,771	1,532
Total	2,008	2,304	2,453	2,242	2,029

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 31 March 2018

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 March 2018 by District Health Board

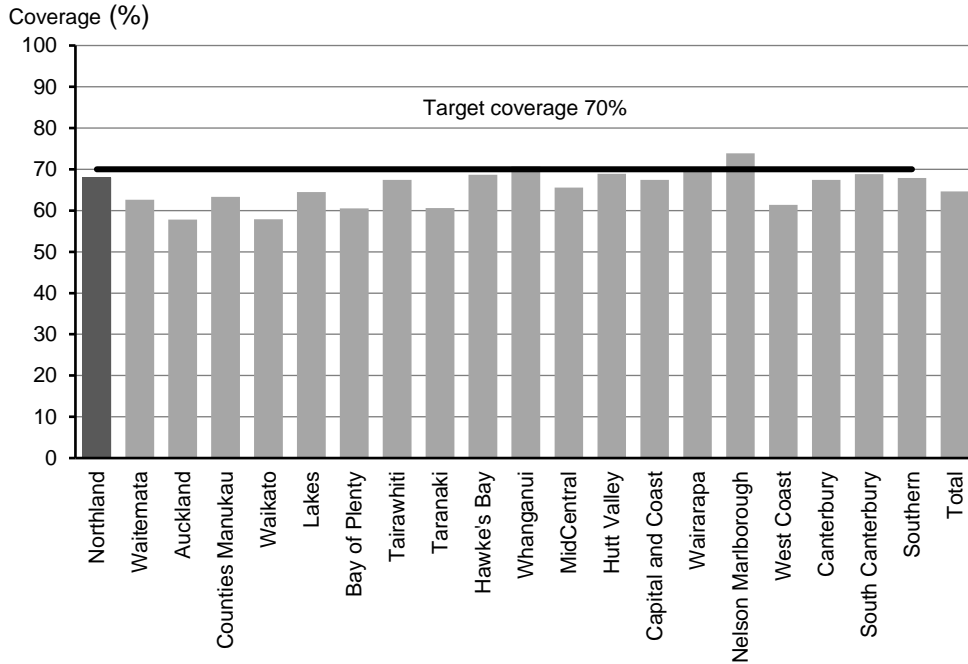


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2018 by District Health Board

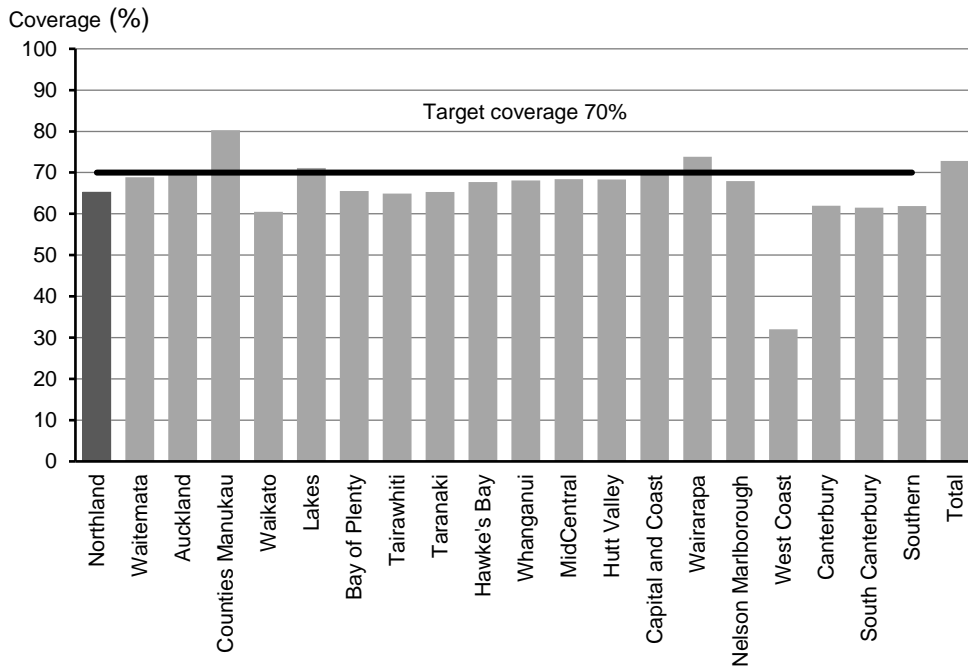


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2018 by District Health Board

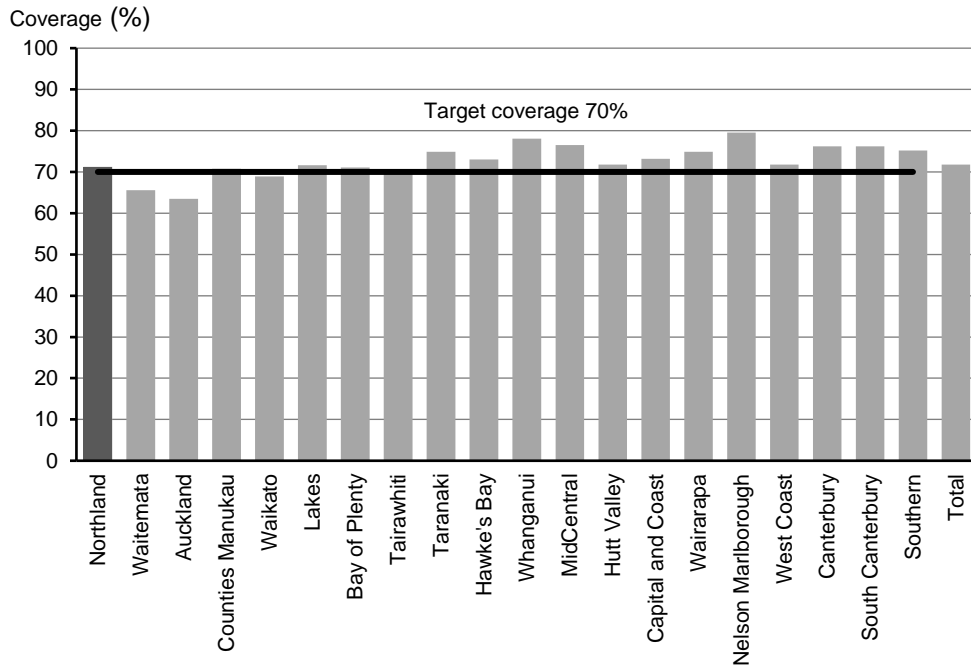


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 March 2018

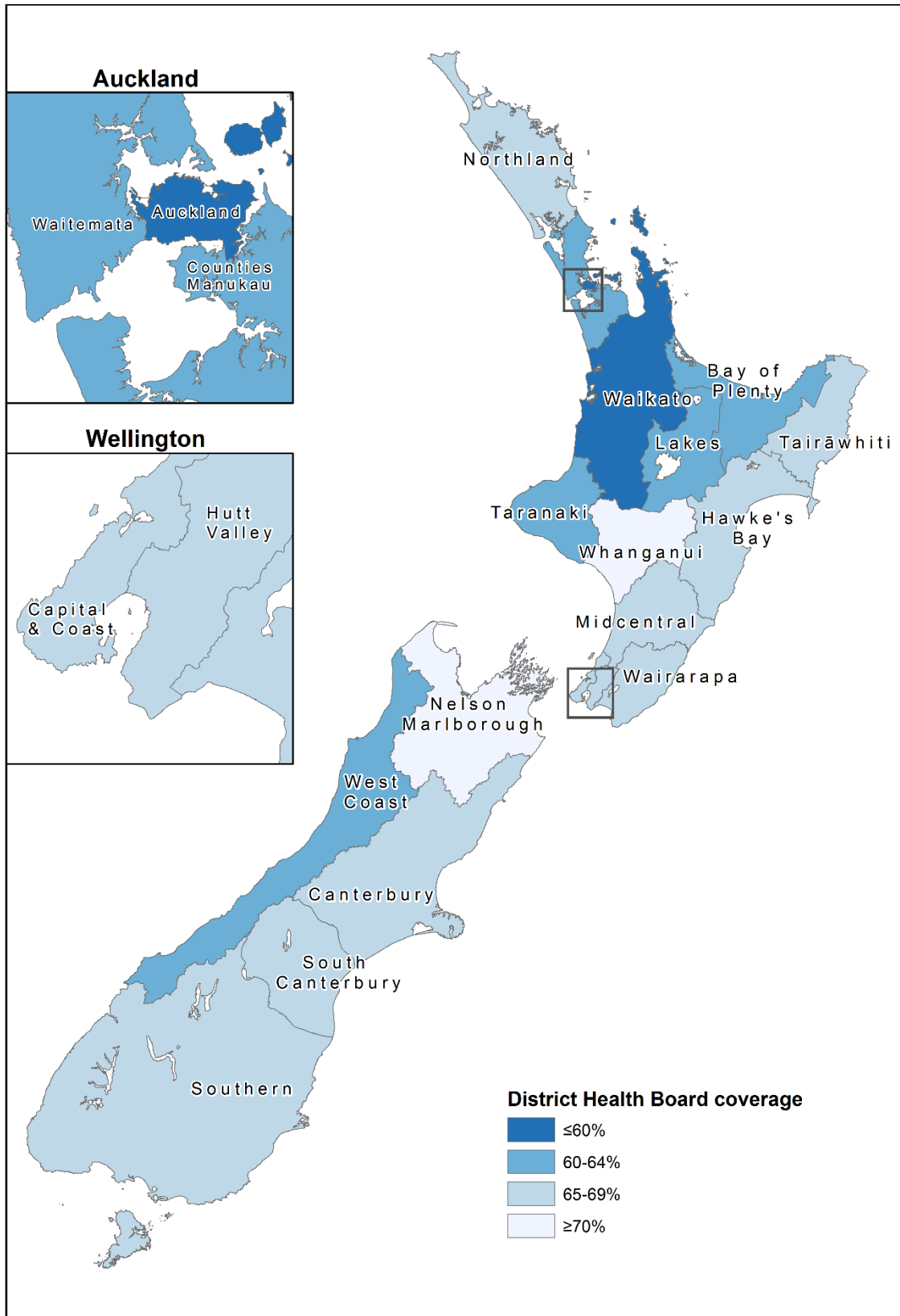


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2018

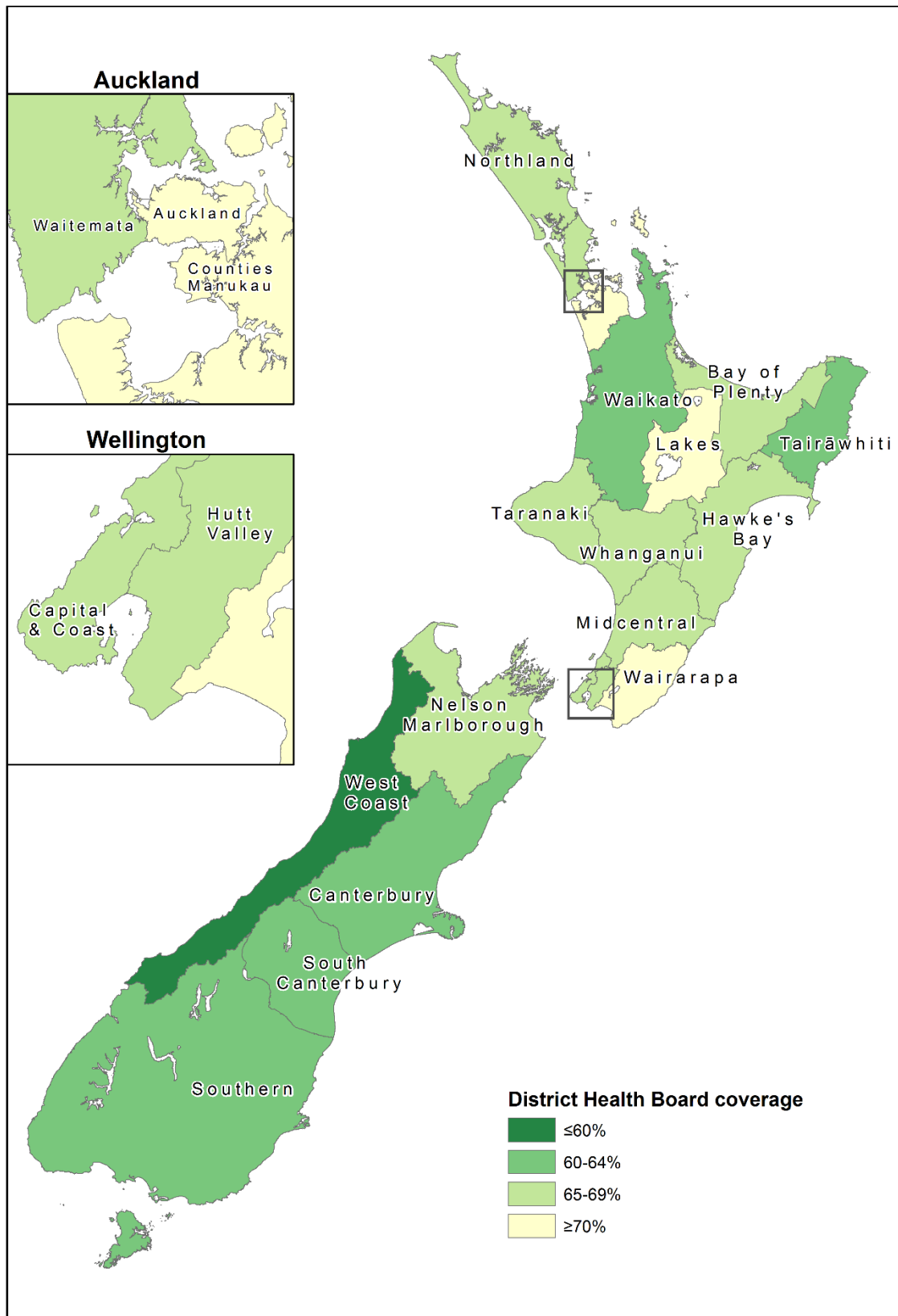


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2018 by District Health Board

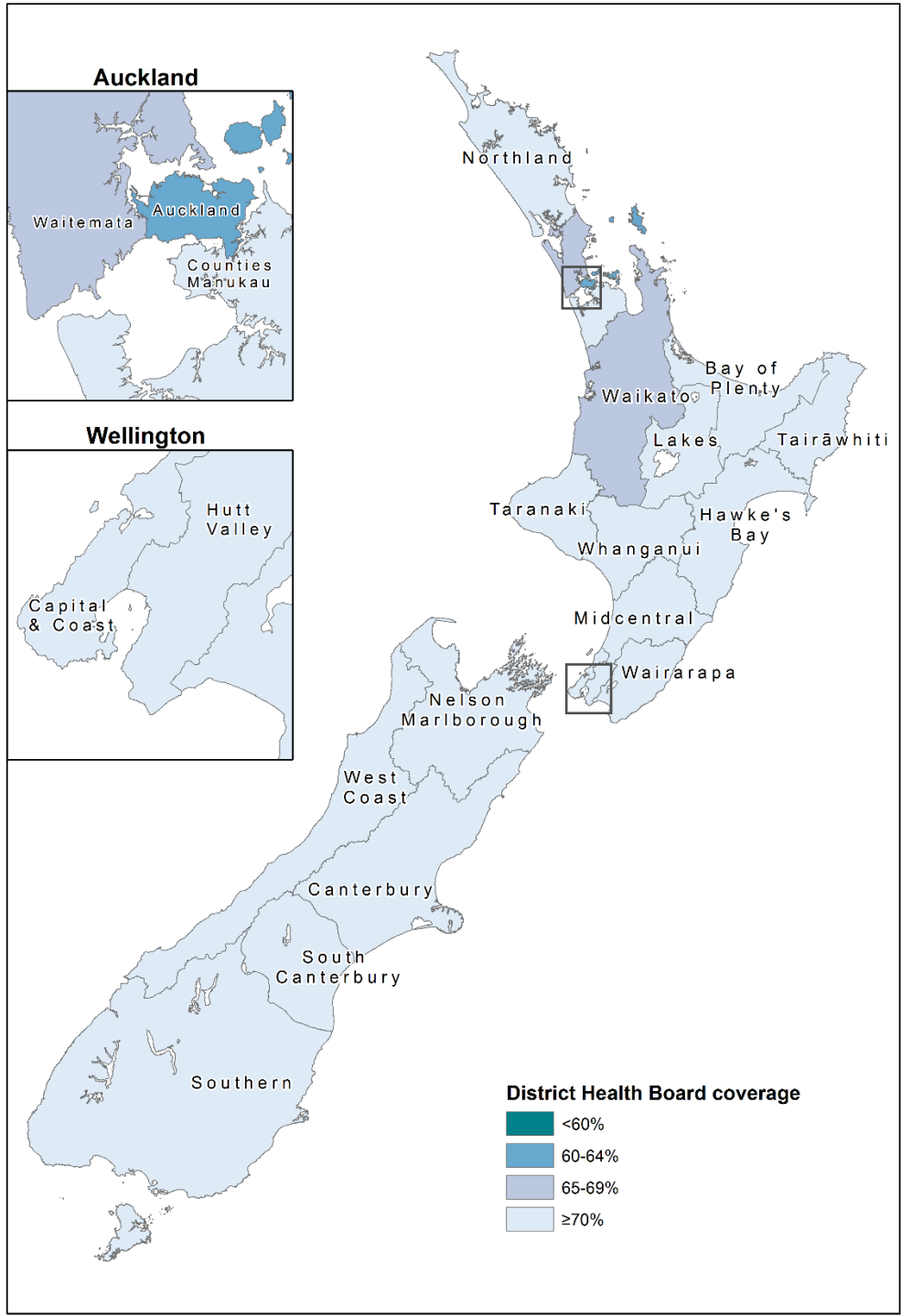


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 31 March 2018 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	Unspec.	Total	Māori	Pacific	Other	Total
Northland	5,936	292	18,255	24,483	4,041	190	13,194	10	17,435	68.1%	65.1%	72.3%	71.2%
Waitemata	4,765	3,519	61,286	69,570	2,983	2,422	40,232	28	45,665	62.6%	68.8%	65.6%	65.6%
Auckland	3,638	4,761	44,829	53,228	2,103	3,348	28,266	107	33,824	57.8%	70.3%	63.1%	63.5%
Counties Manukau	6,789	8,861	42,082	57,732	4,297	7,119	29,410	36	40,862	63.3%	80.3%	69.9%	70.8%
Waikato	7,671	841	39,867	48,379	4,441	509	28,261	131	33,342	57.9%	60.5%	70.9%	68.9%
Lakes	3,508	211	9,985	13,704	2,261	150	7,371	25	9,807	64.5%	71.1%	73.8%	71.6%
Bay of Plenty	5,292	281	24,948	30,521	3,203	184	18,274	53	21,714	60.5%	65.5%	73.2%	71.1%
Tairāwhiti	2,366	94	3,513	5,973	1,595	62	2,526	1	4,184	67.4%	66.0%	71.9%	70.0%
Taranaki	1,789	95	13,145	15,029	1,084	62	10,112	4	11,262	60.6%	65.3%	76.9%	74.9%
Hawke's Bay	3,686	406	18,044	22,136	2,532	275	13,354	9	16,170	68.7%	67.7%	74.0%	73.0%
Whanganui	1,576	113	6,925	8,614	1,115	77	5,534	2	6,728	70.7%	68.1%	79.9%	78.1%
MidCentral	2,759	361	18,905	22,025	1,809	247	14,797	4	16,857	65.6%	68.4%	78.3%	76.5%
Hutt Valley	2,091	956	14,953	18,000	1,440	653	10,821	14	12,928	68.9%	68.3%	72.4%	71.8%
Capital and Coast	2,751	1,886	30,529	35,166	1,854	1,318	22,514	48	25,734	67.4%	69.9%	73.7%	73.2%
Wairarapa	685	65	5,600	6,350	479	48	4,223	4	4,754	69.9%	73.8%	75.4%	74.9%
Nelson Marlborough	1,354	140	20,506	22,000	1,000	95	16,373	29	17,497	73.9%	67.9%	79.8%	79.5%
West Coast	389	25	4,239	4,653	239	8	3,075	20	3,342	61.4%	32.0%	72.5%	71.8%
Canterbury	3,551	903	62,586	67,040	2,393	561	48,044	56	51,054	67.4%	62.1%	76.8%	76.2%
South Canterbury	398	39	8,081	8,518	274	24	6,188	5	6,491	68.8%	61.5%	76.6%	76.2%
Southern	2,393	328	37,608	40,329	1,625	203	28,467	38	30,333	67.9%	61.9%	75.7%	75.2%
Unspecified DHB					179	53	1,759	1	1,992				
Total	63,387	24,177	485,886	573,450	40,947	17,608	352,795	625	411,975	64.6%	72.8%	72.6%	71.8%

DHB coverage comparison trends by ethnicity

Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 March, 2016, 2017, 2018, by ethnicity and District Health Board

DHB	Māori			Pacific			Other		
	Mar 2016	Mar 2017	Mar 2018	Mar 2016	Mar 2017	Mar 2018	Mar 2016	Mar 2017	Mar 2018
Northland	69.1%	70.2%	68.1%	66.9%	71.0%	65.1%	71.6%	73.3%	72.3%
Waitemata	64.0%	63.4%	62.6%	69.9%	69.1%	68.8%	68.6%	67.7%	65.6%
Auckland	60.2%	57.7%	57.8%	75.1%	72.6%	70.3%	64.6%	64.3%	63.1%
Counties Manukau	65.4%	62.8%	63.3%	78.9%	76.0%	80.3%	68.5%	68.2%	69.9%
Waikato	59.8%	57.9%	57.9%	62.5%	58.5%	60.5%	69.8%	69.3%	70.9%
Lakes	61.3%	61.4%	64.5%	52.0%	64.9%	71.1%	70.0%	70.8%	73.8%
Bay of Plenty	59.9%	59.8%	60.5%	73.8%	66.8%	65.5%	73.5%	71.4%	73.2%
Tairāwhiti	66.4%	69.4%	67.4%	56.2%	64.4%	66.0%	72.3%	73.3%	71.9%
Taranaki	61.4%	61.1%	60.6%	62.7%	62.4%	65.3%	75.5%	76.2%	76.9%
Hawke's Bay	67.9%	66.7%	68.7%	65.4%	67.0%	67.7%	74.1%	75.0%	74.0%
Whanganui	71.5%	71.5%	70.7%	75.0%	71.4%	68.1%	78.9%	79.3%	79.9%
MidCentral	64.6%	65.5%	65.6%	66.3%	66.6%	68.4%	77.3%	78.0%	78.3%
Hutt Valley	65.8%	68.1%	68.9%	64.4%	68.2%	68.3%	74.5%	76.6%	72.4%
Capital and Coast	65.8%	67.6%	67.4%	67.2%	69.1%	69.9%	73.1%	73.5%	73.7%
Wairarapa	69.7%	68.5%	69.9%	83.1%	73.4%	73.8%	75.7%	77.2%	75.4%
Nelson Marlborough	71.9%	76.7%	73.9%	62.5%	66.7%	67.9%	79.2%	80.5%	79.8%
West Coast	68.9%	66.7%	61.4%	35.0%	35.0%	32.0%	76.9%	76.3%	72.5%
Canterbury	71.2%	69.4%	67.4%	62.8%	63.4%	62.1%	79.5%	77.1%	76.8%
South Canterbury	69.7%	68.3%	68.8%	56.7%	52.9%	61.5%	79.5%	78.2%	76.6%
Southern	63.9%	65.6%	67.9%	56.8%	62.6%	61.9%	72.6%	75.3%	75.7%
Total	64.9%	64.6%	64.6%	72.9%	71.6%	72.8%	72.8%	72.8%	72.6%