

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
30 June 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 who are known to be at increased risk of developing breast cancer and have significantly higher mortality rates from breast cancer. From June 2018 the NSU is adding the number of Asian women screened by DHB and the eligible population to the quarterly reports (tables 4 and 5). While Asian women are not at increased risk of developing breast cancer, it is important to monitor the rate of screening in this group to understand screening behaviours.

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.

Women who screen regularly have a lower risk of dying from breast cancer than those who screen less regularly. Rescreening rates are calculated as the number of women rescreened within 20-27 months of their previous screen as a percentage of the number of women eligible for a rescreen. Where a woman has more than one screening episode recorded in a screening period, only the last episode is reported. This may result in variances when women's screens and rescreens are completed by different providers.

BSA monitor initial and subsequent screening rates. Initial rescreens are the proportion of women who have a screening mammogram within 20-27 months after their first screening appointment. There has been a decline in the proportion of women being rescreened within 27 months of their first mammogram and from June 2018 the initial rescreen rates are included in the quarterly DHB reports (page 7).

Numerator: Women screened in the 24 month period preceding the report end date and who are eligible for rescreening and returned for a rescreen within 20-27 months. (April 2016 to 30 June 2018)

Denominator: Women screened in the 24 month period preceding the report end date who are eligible for rescreening. (April 2014 to March 2016).

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

Technical notes

The data for the period ending 30 June 2018 was extracted from the national BreastScreen Aotearoa database (the Database) on 18 July 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 30 June 2016, March 2017 and March 2018 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2017 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:

- 30 June 2016, the denominator is the projected population for 30 June 2015
- 30 June 2017, the denominator is the projected population for 30 June 2016
- 30 June 2018, the denominator is the projected population for 30 June 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 30 June 2018

Figure 1: BSA coverage (%) in the two years ending 30 June 2018 by ethnicity¹, women aged 50–69 years, Total Coverage

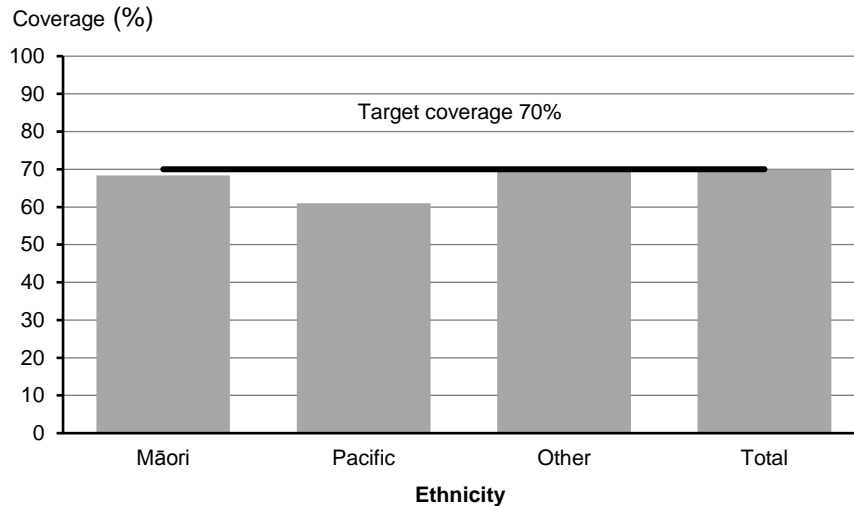


Table 1: BSA coverage (%) in the two years ending 30 June 2018 by ethnicity¹, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	5,870	4,015	68.40%	94
Pacific	310	189	61.00%	28
Other	18,600	13,103	70.40%	
Unspecified		10		
Total	24,780	17,317	69.90%	29

*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%.

¹ "Other" includes all non-Māori, non-Pacific women, including Asian. On tables 4 and 5 Asian women are listed separately.

Northland coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2018 by ethnicity¹, Total Coverage

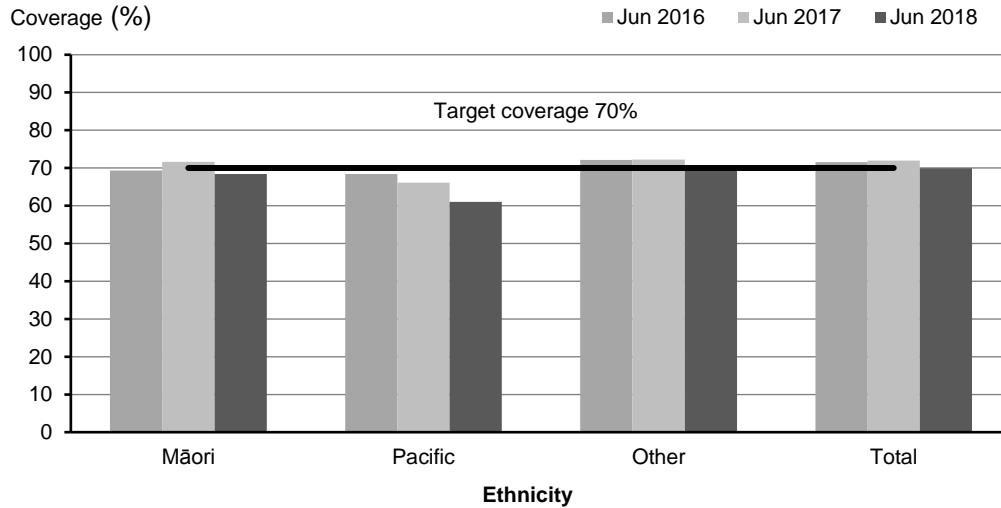


Table 2: BSA number of screens in women aged 50–69 years by ethnicity¹ and quarter, Quarter 2 2017 - Quarter 2 2018

Ethnicity	Number of screens by quarter				
	Q2 (Apr - Jun) 2017	Q3 (Jun - Sep) 2017	Q4 (Oct- Dec) 2017	Q1 (Jan - Mar) 2018	Q2 (Apr - Jun) 2018
Māori	468	655	445	472	643
Pacific	21	26	26	25	25
Other	1,815	1,772	1,771	1,532	1,904
Total	2,304	2,453	2,242	2,029	2,572

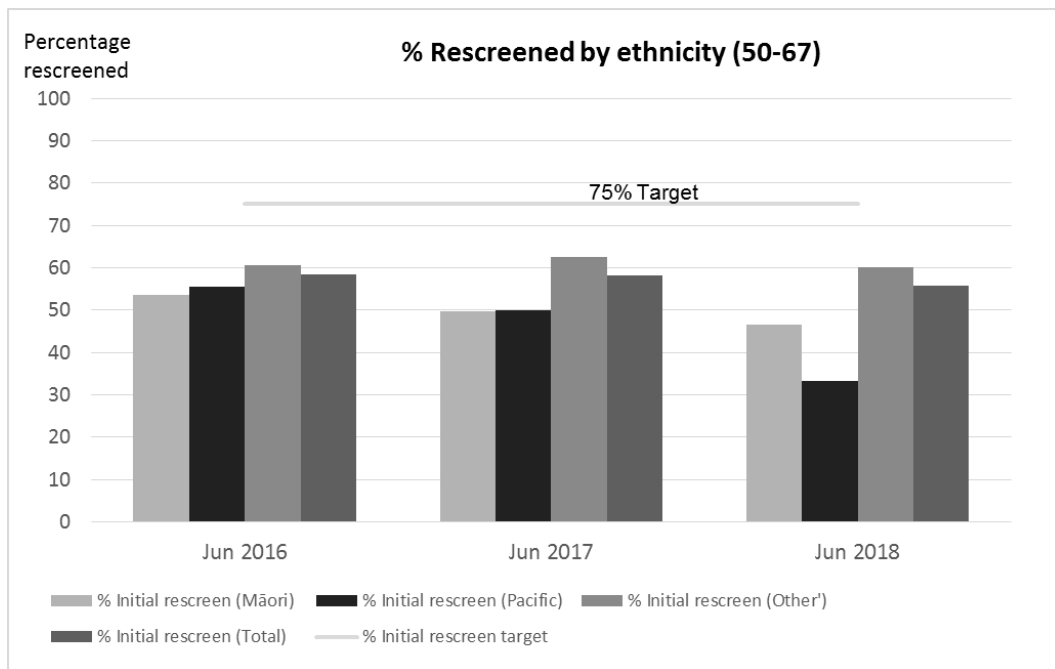
¹ "Other" includes all non-Māori, non-Pacific women, including Asian. On tables 4 and 5 Asian women are listed separately.

Number of initial rescreens by ethnicity

Table 3: BSA number of eligible screens and initial rescreens for women aged 50–67 years by ethnicity¹ for the rescreen period 1 April 2016 to 30 June 2018 (eligible period 1 April 2014 to 31 March 2016)

Ethnicity	Number of eligible screens	Number of initial rescreens	%	CI (95%)
Māori	157	73	46.5%	(38.5, 54.6)
Pacific	3	1	33.3%	(0.8, 90.6)
Other	368	221	60.1%	(54.8, 65.1)
Total	528	295	55.9%	(51.5, 60.2)

Figure 3: BSA number of initial eligible rescreens by ethnicity¹



¹ "Other" includes all non-Māori, non-Pacific women, including Asian. On tables 4 and 5 Asian women are listed separately.

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 30 June 2018

Figure 4: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2018 by District Health Board

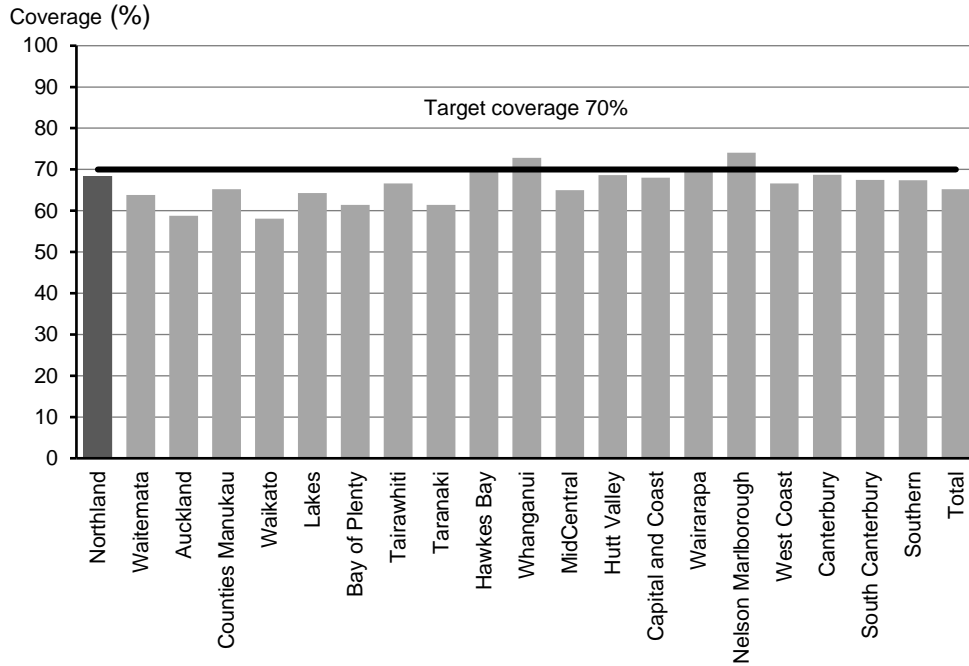


Figure 5: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2018 by District Health Board

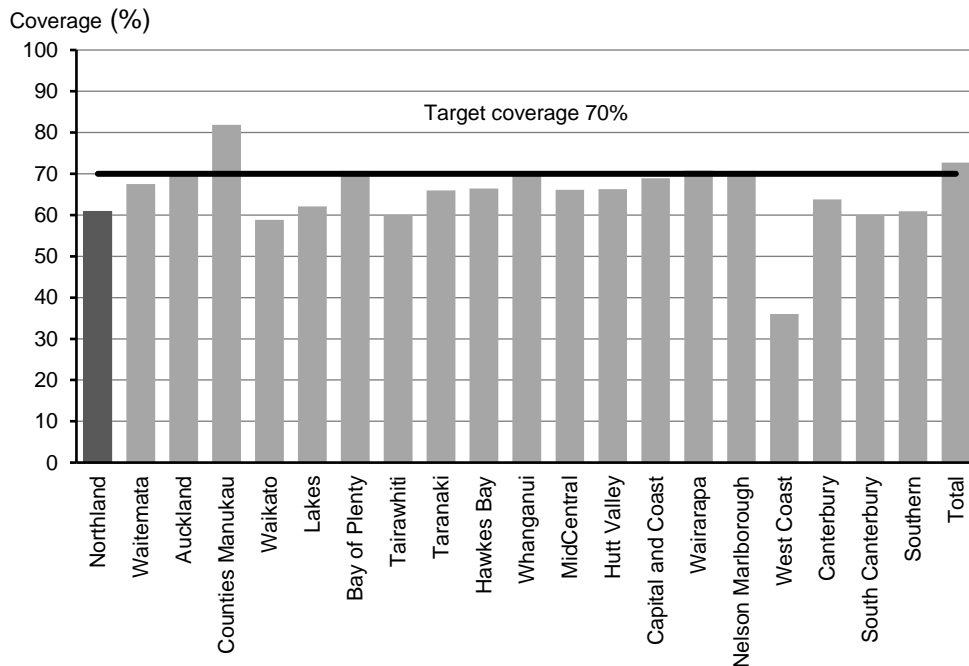


Figure 6: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2018 by District Health Board

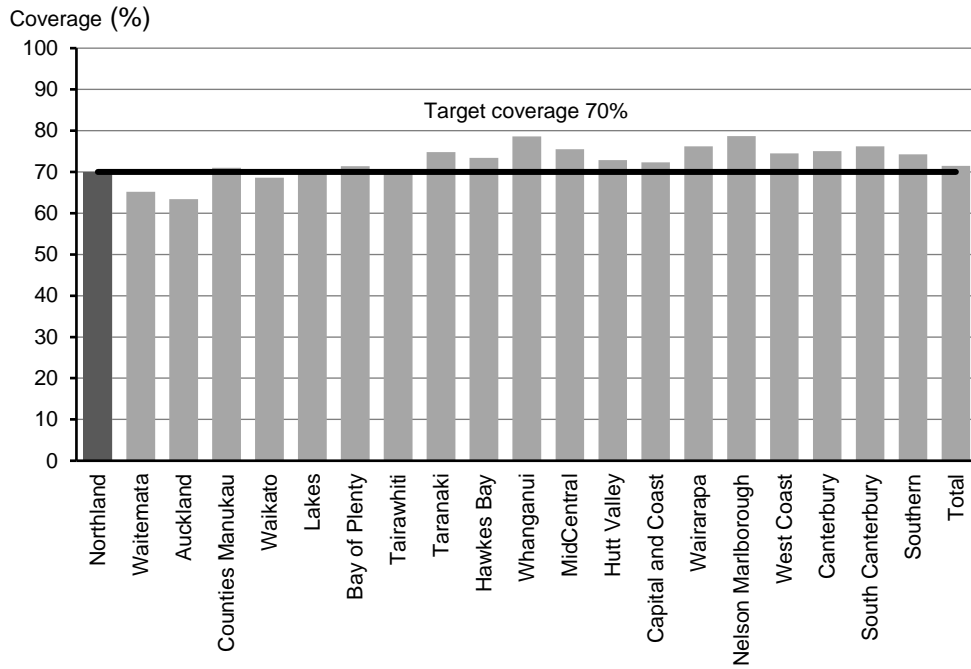


Figure 7: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2018

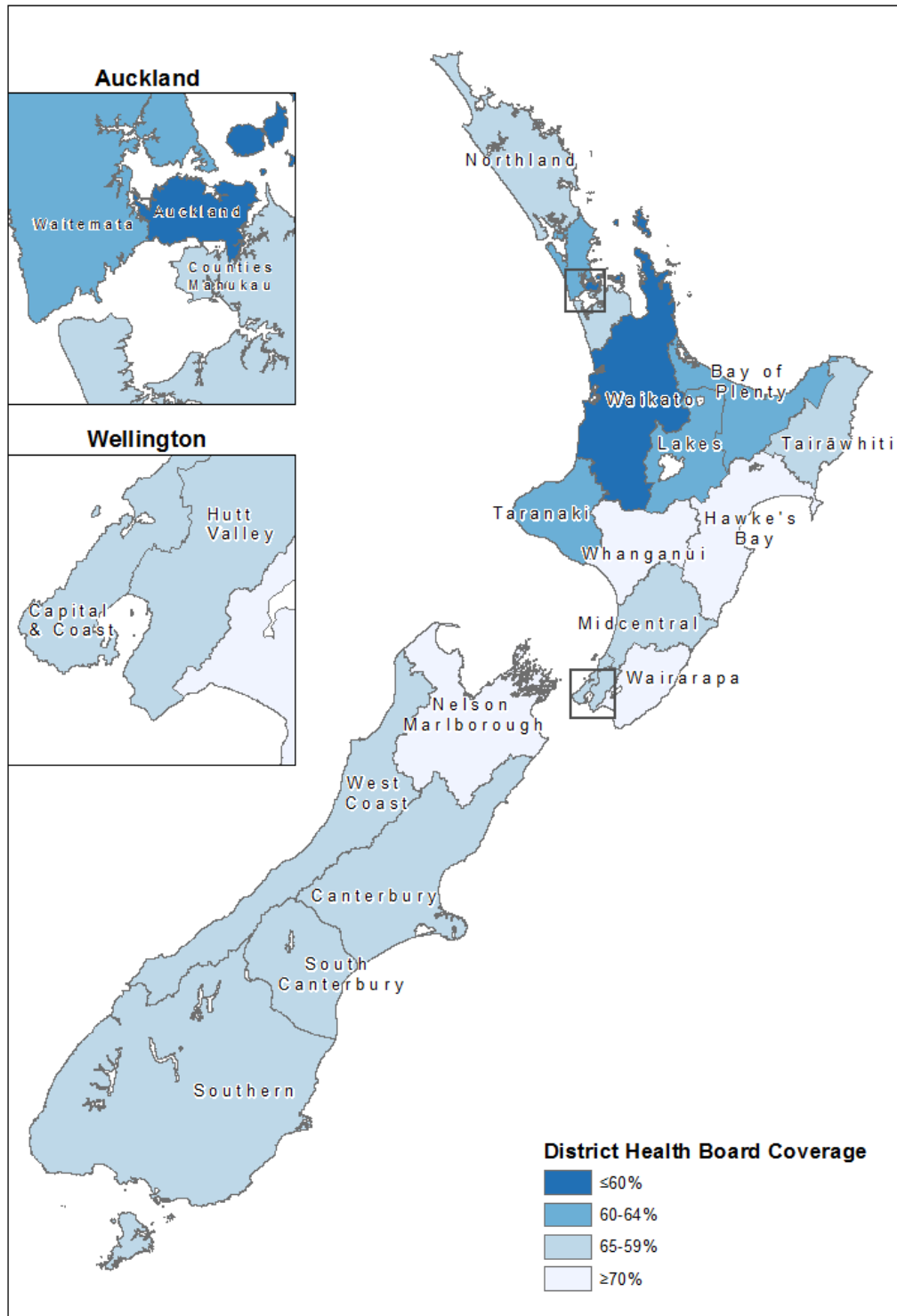


Figure 8: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2018

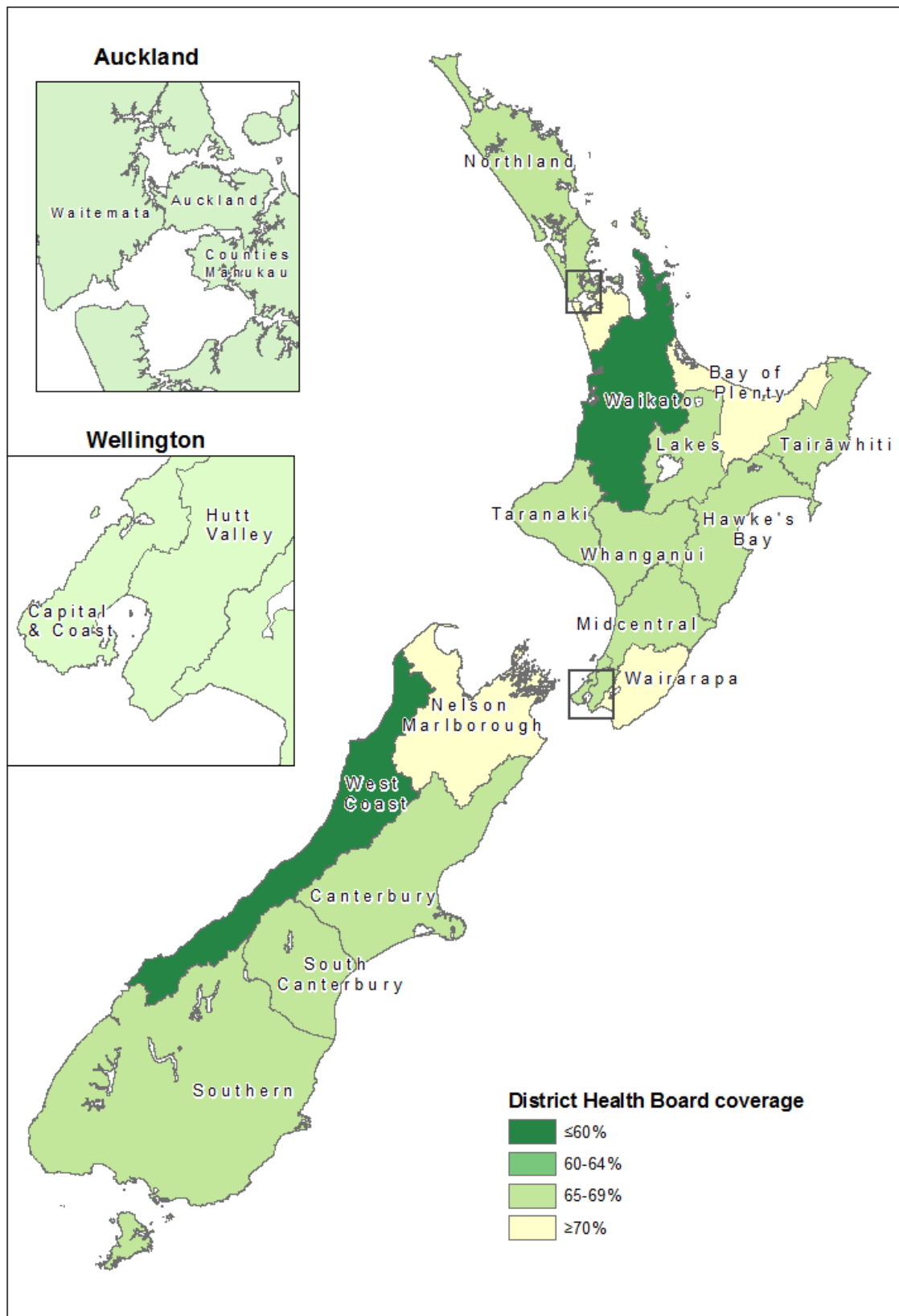


Figure 9: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2018 by District Health Board

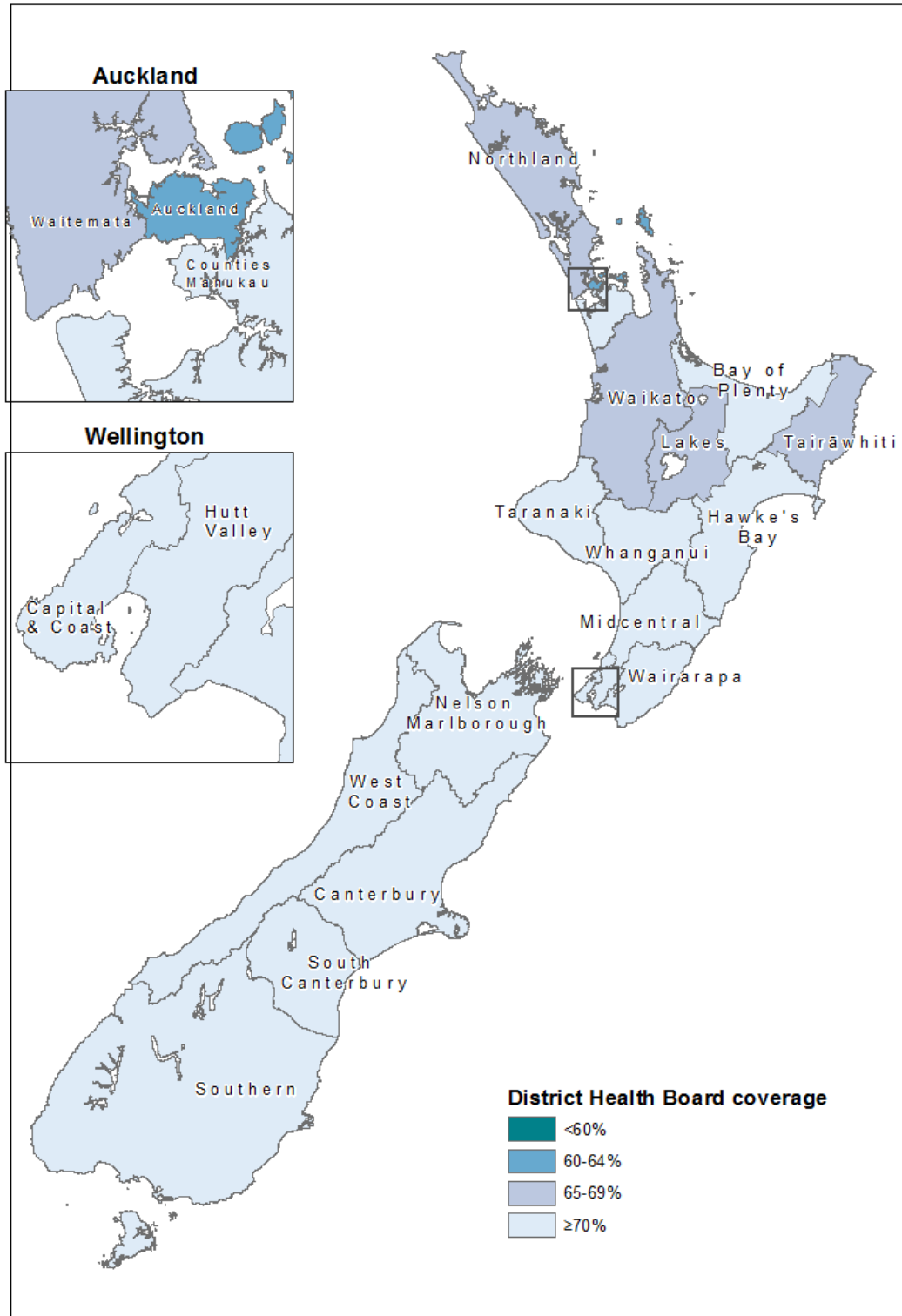


Table 4: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 30 June 2018 by District Health Board

DHB	Eligible Population					Screens						Coverage				
	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Unspecified	Total	Māori	Pacific	Asian	Other	Total
Northland	5,870	310	850	17,750	24,780	4,015	189	411	12,692	10	17,317	68.4%	61.0%	48.4%	71.5%	69.9%
Waitemata	4,720	3,560	13,540	48,490	70,310	3,011	2,404	8,961	31,426	20	45,822	63.8%	67.5%	66.2%	64.8%	65.2%
Auckland	3,650	4,870	15,250	29,630	53,400	2,146	3,383	10,062	18,171	81	33,843	58.8%	69.5%	66.0%	61.3%	63.4%
Counties Manukau	6,700	9,020	14,910	27,570	58,200	4,370	7,386	9,745	19,791	34	41,326	65.2%	81.9%	65.4%	71.8%	71.0%
Waikato	7,690	880	3,570	36,620	48,760	4,468	517	1,781	26,632	73	33,471	58.1%	58.8%	49.9%	72.7%	68.6%
Lakes	3,490	240	830	9,220	13,780	2,245	149	342	6,854	17	9,607	64.3%	62.1%	41.2%	74.3%	69.7%
Bay of Plenty	5,320	280	1,530	23,670	30,800	3,264	198	663	17,840	40	22,005	61.4%	70.7%	43.3%	75.4%	71.4%
Tairāwhiti	2,380	100	125	3,410	6,015	1,585	60	66	2,493	1	4,205	66.6%	60.0%	52.8%	73.1%	69.9%
Taranaki	1,770	100	490	12,740	15,100	1,087	66	232	9,901	5	11,291	61.4%	66.0%	47.3%	77.7%	74.8%
Hawke's Bay	3,640	420	800	17,390	22,250	2,549	279	411	13,071	14	16,324	70.0%	66.4%	51.4%	75.2%	73.4%
Whanganui	1,580	115	270	6,650	8,615	1,150	80	130	5,409	5	6,774	72.8%	69.6%	48.1%	81.3%	78.6%
MidCentral	2,740	360	1,310	17,730	22,140	1,783	238	722	13,962	10	16,715	65.1%	66.1%	55.1%	78.7%	75.5%
Hutt Valley	2,110	990	1,980	13,030	18,110	1,447	656	1,335	9,757	13	13,208	68.6%	66.3%	67.4%	74.9%	72.9%
Capital and Coast	2,750	1,950	4,570	26,310	35,580	1,871	1,343	2,793	19,665	41	25,713	68.0%	68.9%	61.1%	74.7%	72.3%
Wairarapa	690	65	155	5,520	6,430	485	46	92	4,269	8	4,900	70.3%	70.8%	59.4%	77.3%	76.2%
Nelson Marlborough	1,350	140	630	19,990	22,110	1,000	99	279	15,989	29	17,396	74.1%	70.7%	44.3%	80.0%	78.7%
West Coast	380	25	95	4,130	4,630	253	9	49	3,118	19	3,448	66.6%	36.0%	51.6%	75.5%	74.5%
Canterbury	3,570	900	5,220	57,840	67,530	2,452	574	2,526	45,067	57	50,676	68.7%	63.8%	48.4%	77.9%	75.0%
South Canterbury	400	40	220	7,830	8,490	269	23	65	6,107	5	6,469	67.3%	57.5%	29.5%	78.0%	76.2%
Southern	2,420	330	1,730	36,110	40,590	1,632	201	697	27,590	41	30,161	67.4%	60.9%	40.3%	76.4%	74.3%
Unspecified	0	0			0	170	44	288	1,869	2	2,124					
Total	63,220	24,695	68,075	421,630	577,620	41,252	17,944	41,899	311,424	525	413,044	65.3%	72.7%	61.5%	73.9%	71.5%

DHB coverage comparison trends by ethnicity

Table 5: BSA coverage (%) of women aged 50–69 years in the two years ending 30 June, 2016, 2017, 2018, by ethnicity and District Health Board

DHB	Māori			Pacific			Asian			Other			Total		
	Jun-16	Jun-17	Jun-18	Jun-16	Jun-17	Jun-18	Jun-16	Jun-17	Jun-18	Jun-16	Jun-17	Jun-18	Jun-16	Jun-17	Jun-18
Northland	69.3%	71.6%	68.4%	68.4%	66.1%	61.0%	50.0%	48.8%	48.4%	73.0%	73.2%	71.5%	71.5%	72.0%	69.9%
Waitemata	65.3%	63.0%	63.8%	69.0%	67.1%	67.5%	67.6%	66.6%	66.2%	68.2%	65.7%	64.8%	68.0%	65.8%	65.2%
Auckland	59.6%	57.9%	58.8%	73.3%	71.6%	69.5%	70.9%	68.7%	66.0%	61.2%	60.5%	61.3%	64.9%	63.7%	63.4%
Counties Manukau	66.5%	64.3%	65.2%	77.6%	75.7%	81.9%	63.3%	64.1%	65.4%	70.6%	70.4%	71.8%	69.5%	69.0%	71.0%
Waikato	59.6%	58.2%	58.1%	60.9%	57.4%	58.8%	49.3%	49.7%	49.9%	70.3%	72.2%	72.7%	67.3%	68.4%	68.6%
Lakes	63.2%	64.7%	64.3%	56.7%	61.4%	62.1%	48.0%	45.7%	41.2%	72.8%	74.0%	74.3%	69.1%	70.0%	69.7%
Bay of Plenty	60.3%	57.7%	61.4%	68.8%	65.4%	70.7%	49.3%	43.5%	43.3%	74.8%	72.3%	75.4%	71.4%	68.5%	71.4%
Tairāwhiti	67.3%	67.2%	66.6%	60.0%	70.0%	60.0%	46.7%	50.8%	52.8%	73.4%	74.2%	73.1%	70.4%	70.9%	69.9%
Taranaki	61.2%	63.3%	61.4%	64.7%	64.2%	66.0%	46.5%	47.3%	47.3%	76.1%	77.0%	77.7%	73.6%	74.5%	74.8%
Hawke's Bay	68.7%	68.0%	70.0%	64.1%	66.4%	66.4%	57.0%	54.5%	51.4%	75.2%	75.5%	75.2%	73.5%	73.5%	73.4%
Whanganui	71.7%	70.3%	72.8%	74.3%	71.4%	69.6%	58.5%	55.4%	48.1%	80.4%	81.1%	81.3%	78.3%	78.4%	78.6%
MidCentral	65.4%	65.9%	65.1%	64.0%	66.7%	66.1%	60.8%	58.2%	55.1%	78.6%	78.8%	78.7%	75.9%	75.9%	75.5%
Hutt Valley	66.8%	69.1%	68.6%	65.2%	67.5%	66.3%	69.5%	69.7%	67.4%	76.5%	77.4%	74.9%	74.2%	75.2%	72.9%
Capital and Coast	67.1%	68.2%	68.0%	67.3%	68.5%	68.9%	64.4%	63.7%	61.1%	73.8%	75.5%	74.7%	72.0%	73.2%	72.3%
Wairarapa	71.1%	69.3%	70.3%	75.0%	69.2%	70.8%	60.0%	51.4%	59.4%	77.6%	76.8%	77.3%	76.6%	75.4%	76.2%
Nelson Marlborough	74.0%	77.6%	74.1%	63.8%	69.3%	70.7%	46.4%	45.3%	44.3%	81.0%	82.0%	80.0%	79.8%	80.8%	78.7%
West Coast	70.6%	68.6%	66.6%	40.0%	32.0%	36.0%	48.8%	56.3%	51.6%	77.1%	78.0%	75.5%	76.4%	77.0%	74.5%
Canterbury	70.0%	71.2%	68.7%	62.9%	63.4%	63.8%	52.4%	49.8%	48.4%	79.8%	78.5%	77.9%	77.3%	76.0%	75.0%
South Canterbury	69.5%	70.0%	67.3%	56.7%	60.0%	57.5%	26.7%	25.2%	29.5%	80.5%	79.0%	78.0%	78.8%	77.2%	76.2%
Southern	66.0%	67.3%	67.4%	60.3%	62.8%	60.9%	47.9%	43.8%	40.3%	75.8%	76.9%	76.4%	74.3%	75.1%	74.3%
Total	65.4%	65.2%	65.3%	71.9%	70.8%	72.7%	63.4%	62.3%	61.5%	74.0%	73.9%	73.9%	72.0%	71.6%	71.5%