

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
30 June 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 30 June 2017 was extracted from the national BreastScreen Aotearoa database (the Database) on 17 July 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 30 June 2015, June 2016 and June 2017 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2016 update, based on the 2013 Census.

From June 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:

- 30 June 2015, the denominator is the projected population for 30 June 2014
- 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

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 2017

Figure 1: BSA coverage (%) in the two years ending 30 June 2017 by ethnicity, women aged 50–69 years

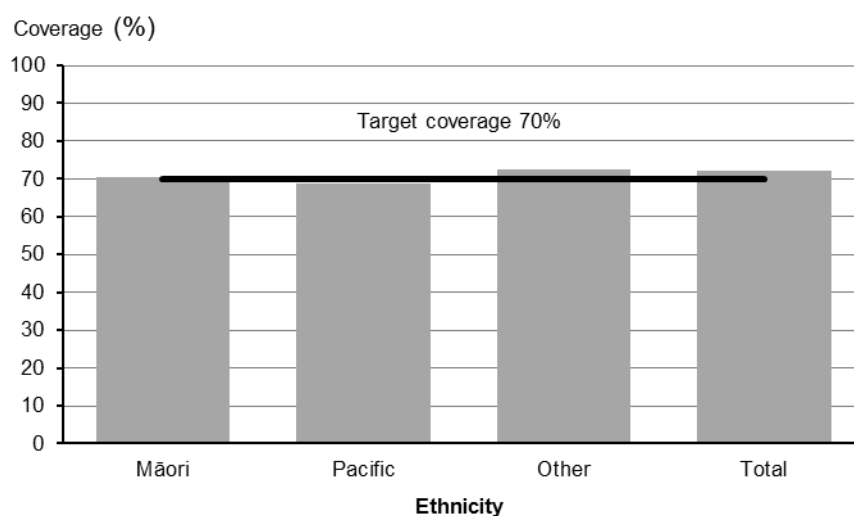


Table 1: BSA coverage (%) in the two years ending 30 June 2017 by ethnicity, women aged 50–69 years

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	5,800	4,090	70.50%	
Pacific	260	179	68.80%	3
Other	18,140	13,162	72.60%	
Unspecified		10		
Total	24,200	17,441	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 30 June 2015, 30 June 2016 and 30 June 2017 by ethnicity

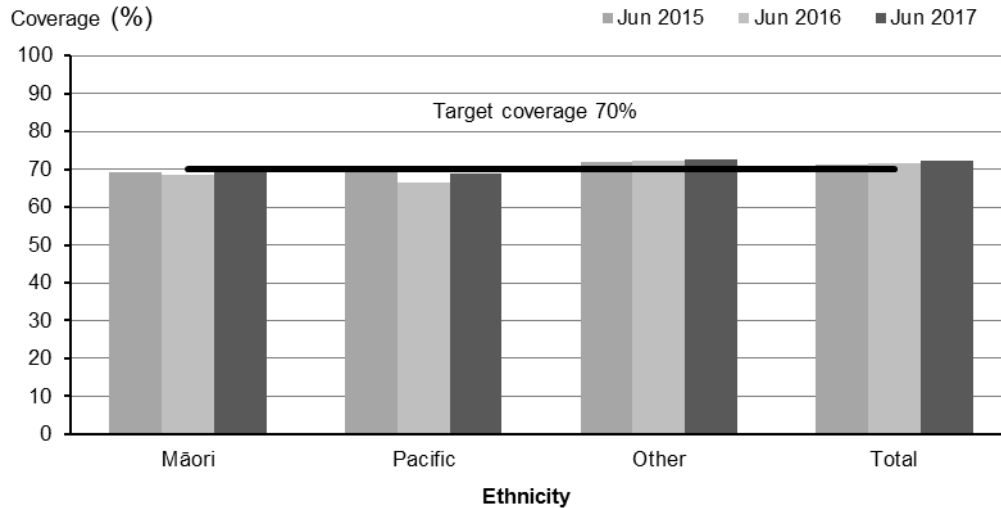


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 2 2016 - Quarter 2 2017

Ethnicity	Number of screens by quarter				
	Q2 (Apr - Jun) 2016	Q3 (Jul - Sep) 2016	Q4 (Oct - Dec) 2016	Q1 (Jan - Mar) 2017	Q2 (Apr - Jun) 2017
Māori	623	462	439	537	468
Pacific	24	23	21	23	21
Other	2,019	1,872	1,363	1,448	1,815
Total	2,666	2,357	1,823	2,008	2,304

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 30 June 2017

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2017 by District Health Board

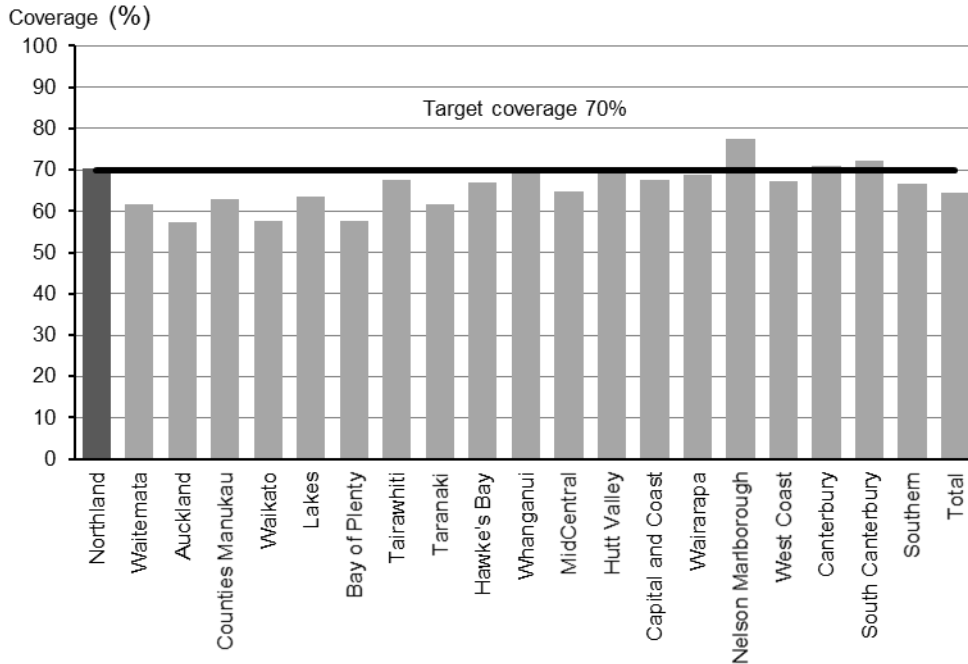


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2017 by District Health Board

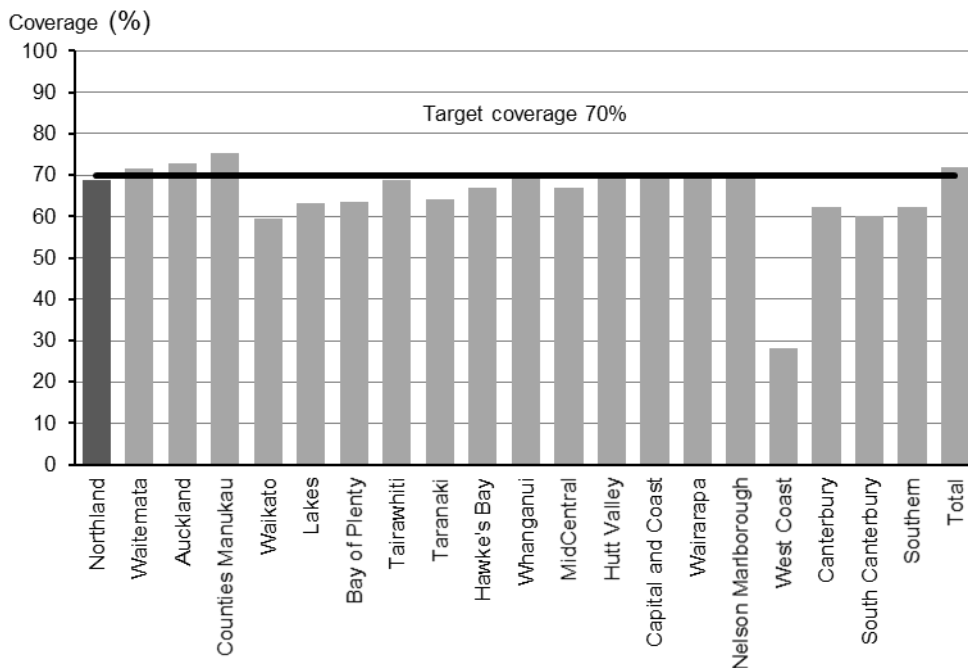


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2017 by District Health Board

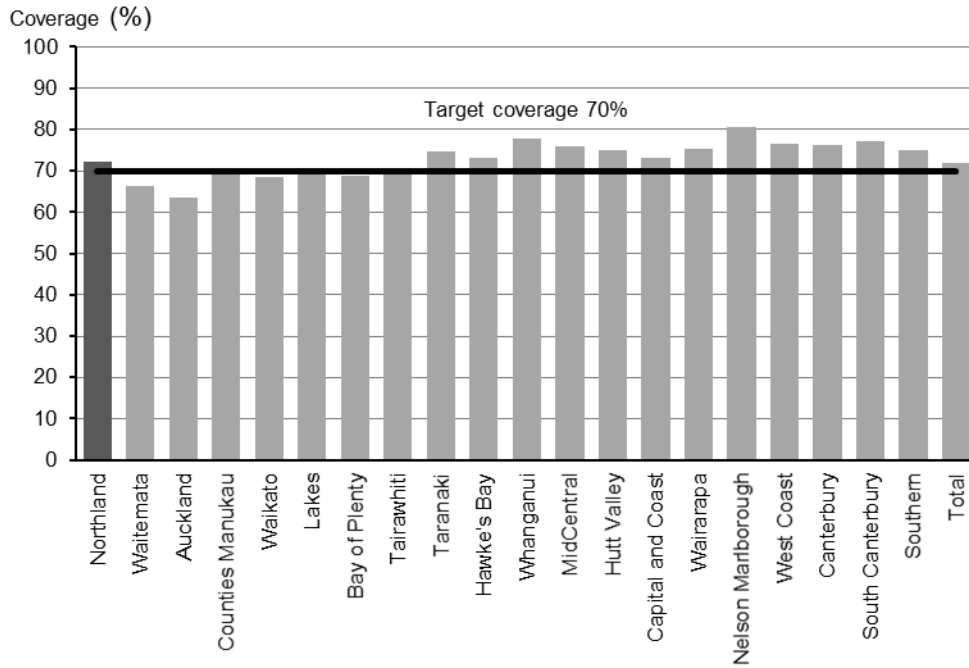


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2017

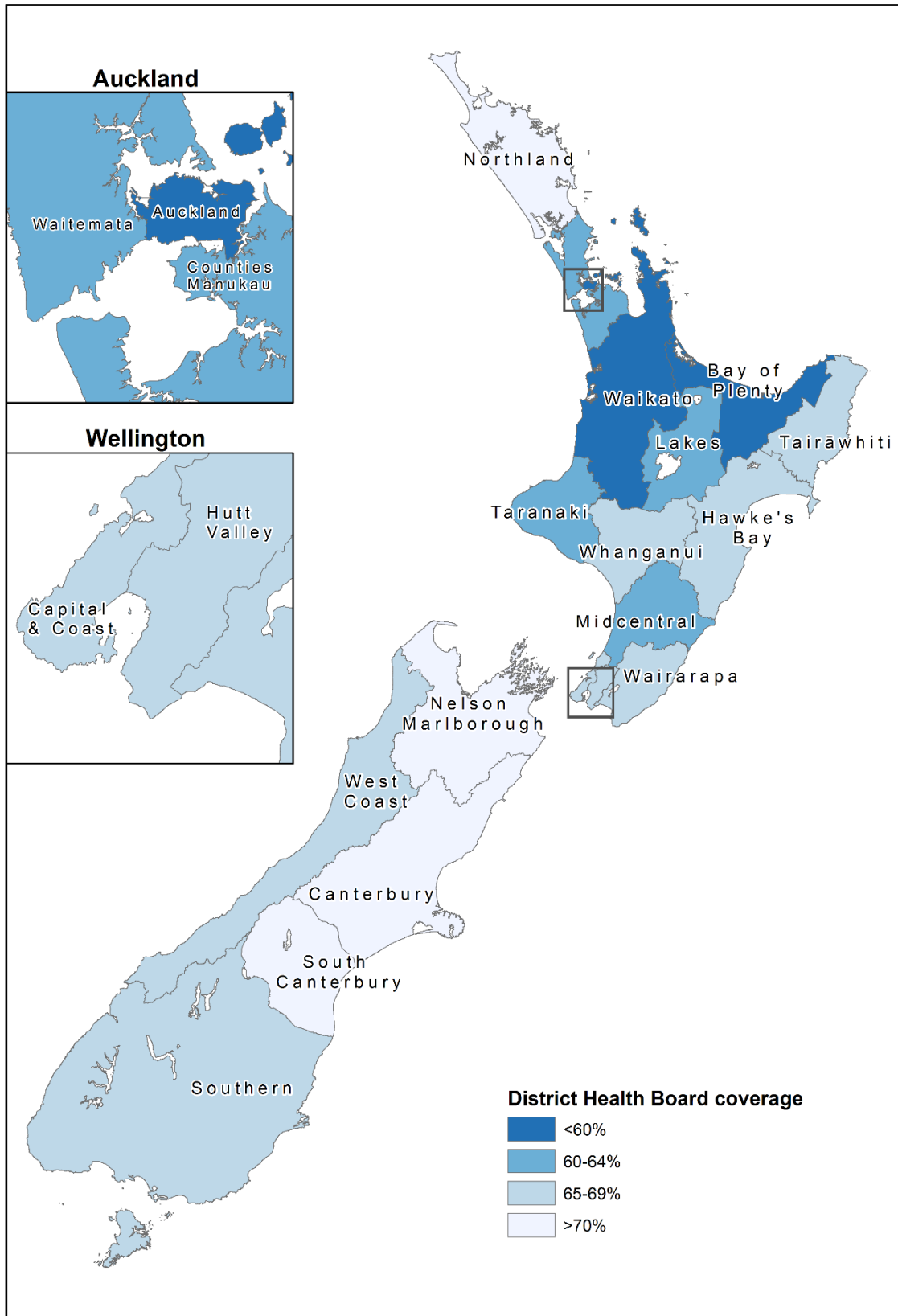


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2017

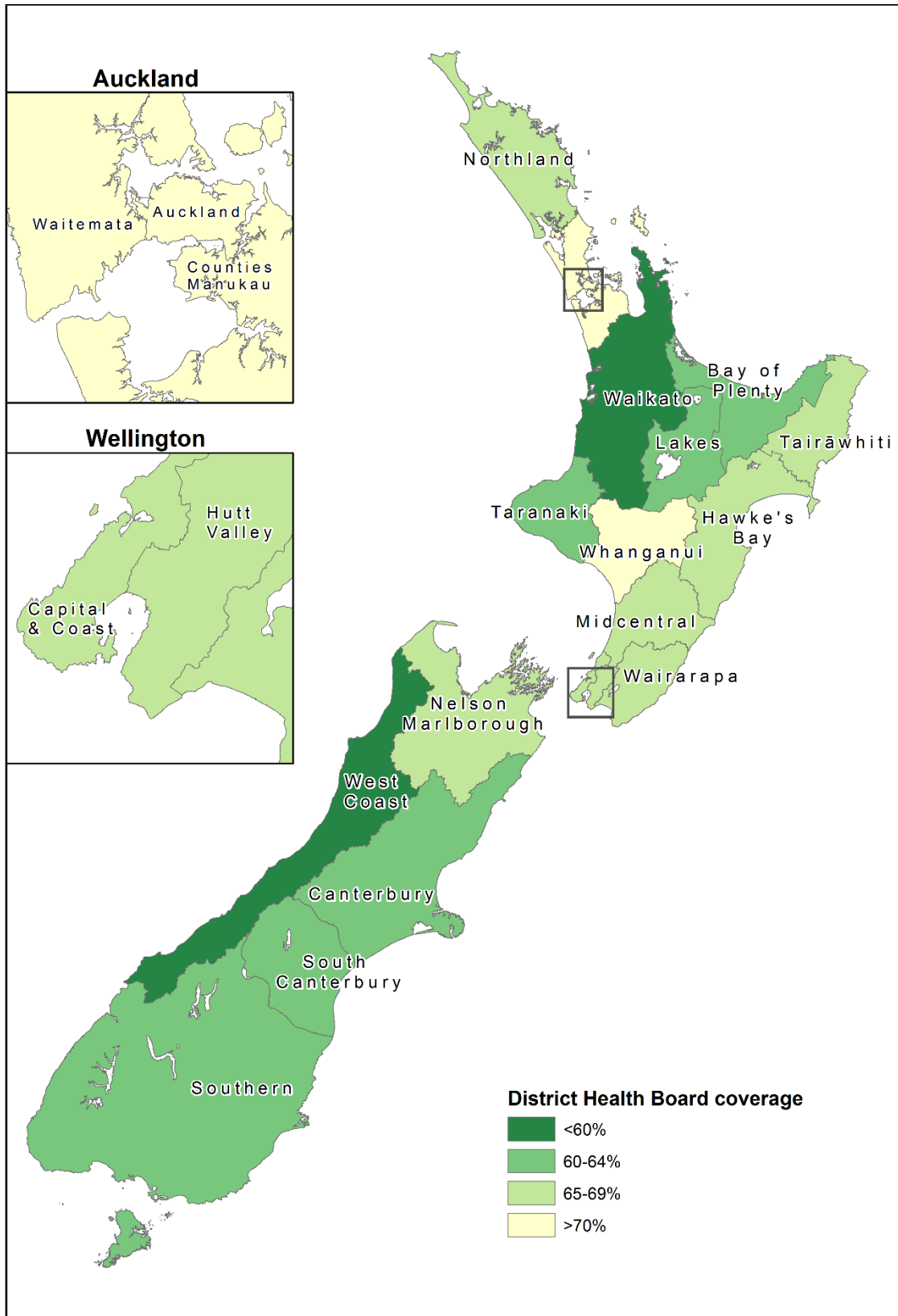


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2017 by District Health Board

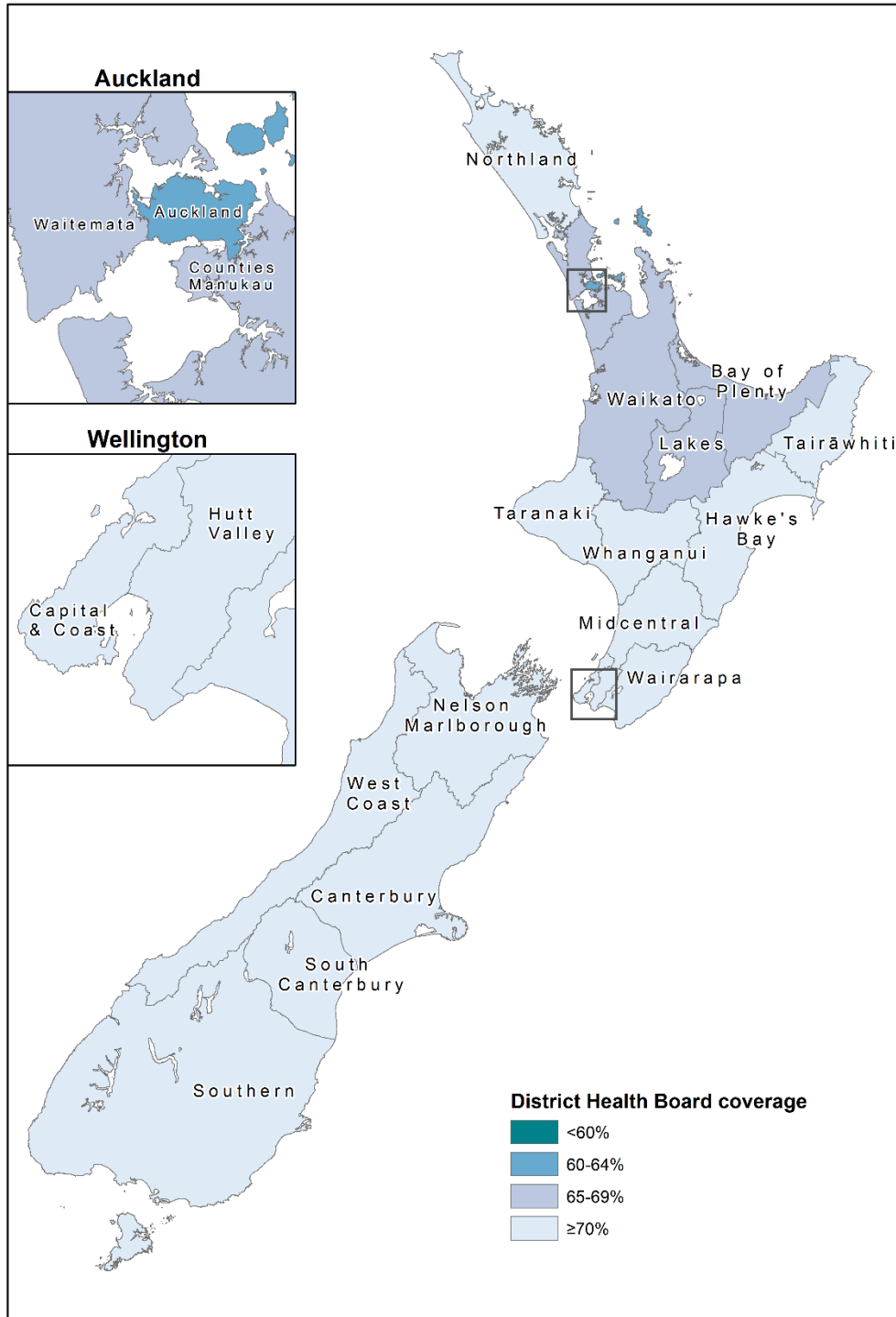


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 30 June 2017 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	Unspecified	Total	Māori	Pacific	Other	Total
Northland	5,800	260	18,140	24,200	4,090	179	13,162	10	17,441	70.5%	68.8%	72.6%	72.1%
Waitemata	4,630	3,450	60,250	68,330	2,856	2,473	39,951	29	45,309	61.7%	71.7%	66.3%	66.3%
Auckland	3,540	4,670	44,010	52,220	2,026	3,399	27,675	109	33,209	57.2%	72.8%	62.9%	63.6%
Counties Manukau	6,570	8,590	41,540	56,700	4,131	6,470	28,576	33	39,210	62.9%	75.3%	68.8%	69.2%
Waikato	7,460	810	39,430	47,700	4,308	483	27,744	115	32,650	57.7%	59.6%	70.4%	68.4%
Lakes	3,440	210	9,960	13,610	2,184	133	7,150	24	9,491	63.5%	63.3%	71.8%	69.7%
Bay of Plenty	5,200	280	24,660	30,140	3,002	178	17,521	49	20,750	57.7%	63.6%	71.1%	68.8%
Tairāwhiti	2,320	90	3,505	5,915	1,568	62	2,560	0	4,190	67.6%	68.9%	73.0%	70.8%
Taranaki	1,720	95	13,060	14,875	1,062	61	9,982	3	11,108	61.7%	64.2%	76.4%	74.7%
Hawke's Bay	3,610	390	18,020	22,020	2,412	261	13,424	14	16,111	66.8%	66.9%	74.5%	73.2%
Whanganui	1,530	105	6,935	8,570	1,069	74	5,512	1	6,656	69.9%	70.5%	79.5%	77.7%
MidCentral	2,690	360	18,940	21,990	1,746	241	14,681	2	16,670	64.9%	66.9%	77.5%	75.8%
Hutt Valley	2,030	940	14,830	17,800	1,404	652	11,278	19	13,353	69.2%	69.4%	76.0%	75.0%
Capital and Coast	2,660	1,870	30,160	34,690	1,797	1,302	22,224	53	25,376	67.6%	69.6%	73.7%	73.2%
Wairarapa	670	65	5,580	6,315	461	45	4,245	3	4,754	68.8%	69.2%	76.1%	75.3%
Nelson Marlborough	1,300	140	20,400	21,840	1,006	97	16,464	30	17,597	77.4%	69.3%	80.7%	80.6%
West Coast	380	25	4,215	4,620	255	7	3,262	20	3,544	67.1%	28.0%	77.4%	76.7%
Canterbury	3,400	880	61,730	66,010	2,409	549	47,330	68	50,356	70.9%	62.4%	76.7%	76.3%
South Canterbury	390	35	8,050	8,475	282	21	6,242	6	6,551	72.3%	60.0%	77.5%	77.3%
Southern	2,310	320	37,450	40,080	1,536	199	28,256	49	30,040	66.5%	62.2%	75.4%	75.0%
Unspecified DHB					177	47	1,679	5	1,908				
Total	61,650	23,585	480,865	566,100	39,781	16,933	348,918	642	406,274	64.5%	71.8%	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 30 June, 2015, 2016, 2017, by ethnicity and District Health Board

DHB	Māori			Pacific			Other		
	Jun 2015	Jun 2016	Jun 2017	Jun 2015	Jun 2016	Jun 2017	Jun 2015	Jun 2016	Jun 2017
Northland	69.1%	68.5%	70.5%	70.8%	66.4%	68.8%	71.8%	72.4%	72.6%
Waitemata	63.8%	64.0%	61.7%	74.8%	73.8%	71.7%	68.3%	68.4%	66.3%
Auckland	62.8%	59.2%	57.2%	74.3%	74.4%	72.8%	65.8%	64.2%	62.9%
Counties Manukau	66.1%	65.4%	62.9%	79.4%	76.7%	75.3%	68.4%	68.9%	68.8%
Waikato	57.8%	59.2%	57.7%	59.3%	60.9%	59.6%	69.9%	68.7%	70.4%
Lakes	63.9%	62.4%	63.5%	46.0%	58.5%	63.3%	71.4%	71.1%	71.8%
Bay of Plenty	59.1%	60.1%	57.7%	73.8%	69.2%	63.6%	71.9%	73.9%	71.1%
Tairāwhiti	65.7%	67.8%	67.6%	54.1%	58.9%	68.9%	71.7%	72.3%	73.0%
Taranaki	61.3%	61.1%	61.7%	61.3%	63.5%	64.2%	75.3%	75.7%	76.4%
Hawke's Bay	65.7%	67.6%	66.8%	67.8%	64.6%	66.9%	74.0%	74.7%	74.5%
Whanganui	70.8%	70.7%	69.9%	69.0%	73.3%	70.5%	76.5%	79.1%	79.5%
MidCentral	62.5%	65.1%	64.9%	66.9%	64.3%	66.9%	76.2%	77.7%	77.5%
Hutt Valley	65.5%	66.6%	69.2%	65.1%	66.3%	69.4%	72.6%	75.3%	76.0%
Capital and Coast	63.2%	66.5%	67.6%	64.5%	68.4%	69.6%	70.9%	72.5%	73.7%
Wairarapa	64.4%	70.5%	68.8%	80.0%	75.0%	69.2%	72.7%	77.2%	76.1%
Nelson Marlborough	72.5%	74.3%	77.4%	54.2%	63.8%	69.3%	76.5%	80.0%	80.7%
West Coast	72.6%	69.2%	67.1%	30.0%	35.0%	28.0%	74.7%	76.6%	77.4%
Canterbury	74.0%	70.2%	70.9%	63.5%	62.8%	62.4%	79.8%	78.1%	76.7%
South Canterbury	71.4%	70.3%	72.3%	53.3%	56.7%	60.0%	78.9%	79.2%	77.5%
Southern	66.2%	65.0%	66.5%	61.9%	57.7%	62.2%	73.3%	74.8%	75.4%
Total	64.7%	64.9%	64.5%	73.3%	72.5%	71.8%	72.6%	72.9%	72.6%