

BSA New Zealand Northland District Health Board Coverage Report

For the period ending
30 June 2019

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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.

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 has added 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 were 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. (1 April 2017 to 30 June 2019)

Denominator: Women screened in the 24 month period preceding the report end date who are eligible for rescreening. (1 April 2015 to 30 March 2017).

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 2019 was extracted from the national BreastScreen Aotearoa database (the Database) on 17 July 2019.

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 2017, 30 June 2018 and 30 June 2019 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2018 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 2017, the denominator is the projected population for 30 June 2016
- 30 June 2018, the denominator is the projected population for 30 June 2017
- 30 June 2019, the denominator is the projected population for 30 June 2018

Delivery of BSA services through mobile units may also result in fluctuations of some ethnicities in some regions in the number of women screened in a quarter. This may have an 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 2019

Figure 1: BSA coverage (%) in the two years ending 30 June 2019 by ethnicity, women aged 50–69 years, Total Coverage

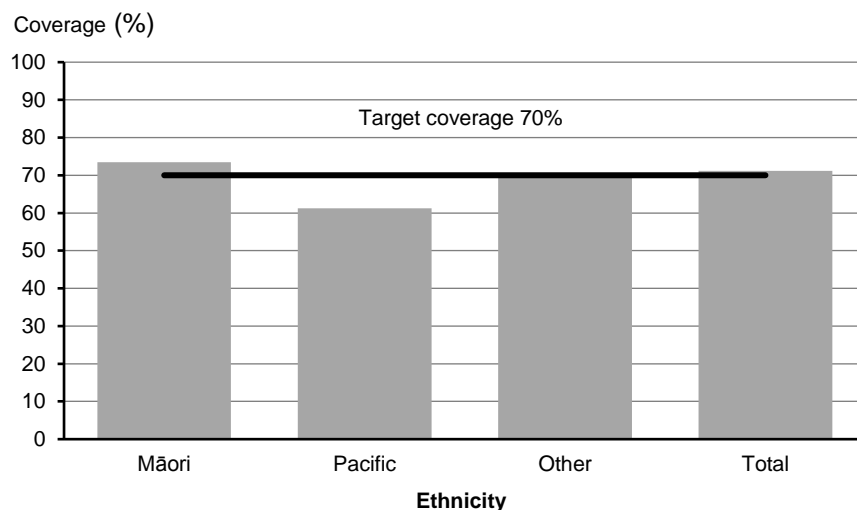


Table 1: BSA coverage (%) in the two years ending 30 June 2019 by ethnicity, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	6,020	4,424	73.50%	
Pacific	340	208	61.20%	30
Other	18,710	13,199	70.50%	
Unspecified		8		
Total	25,070	17,839	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 June 2017, June 2018 and June 2019 by ethnicity, Total Coverage

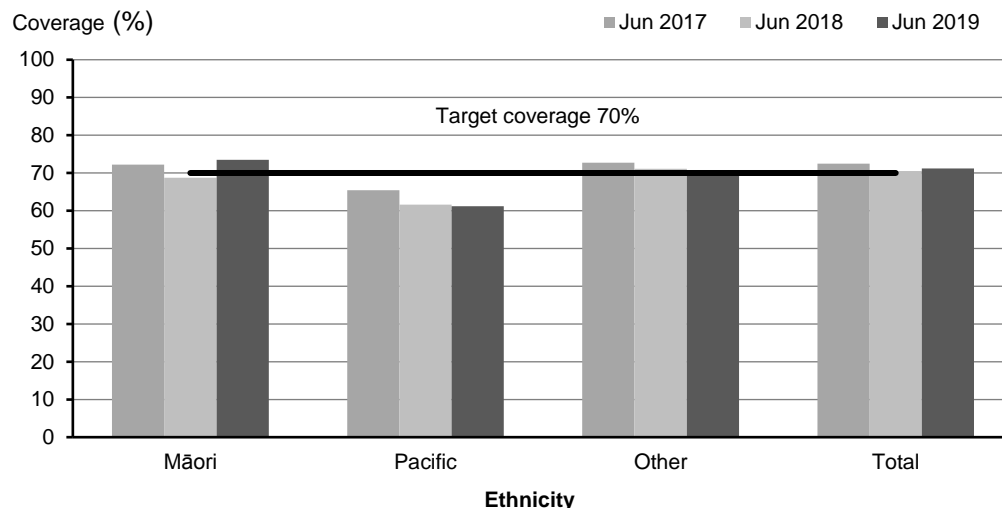


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 2 2017 –Quarter 2 2019

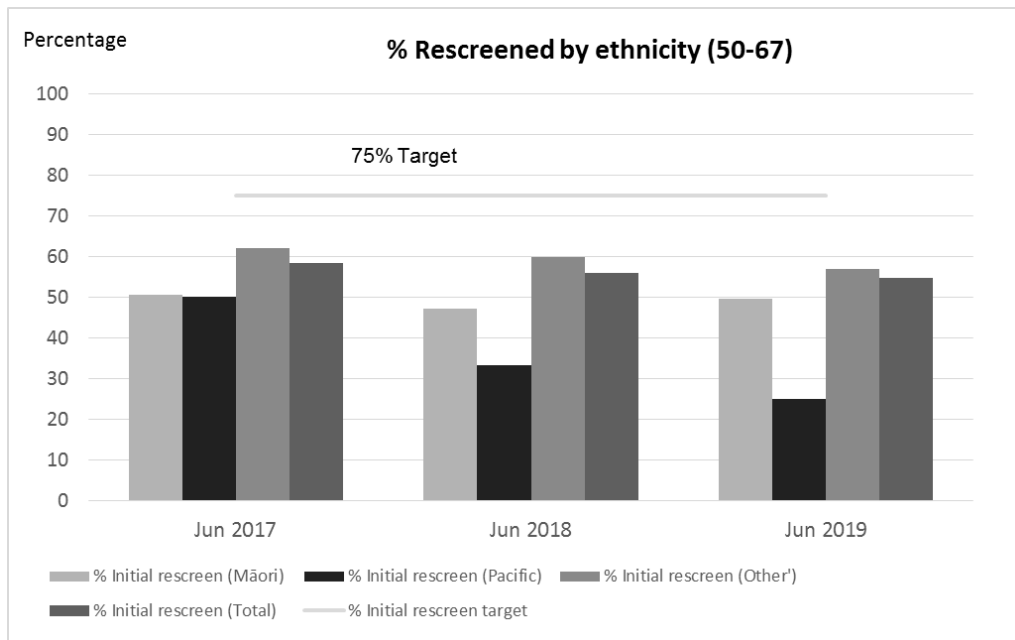
Ethnicity	Number of screens by quarter				
	Q2 (Apr - Jun) 2018	Q3 (Jul - Sep) 2018	Q4 (Oct - Dec) 2018	Q1 (Jan-Mar) 2019	Q2 (Apr - Jun) 2019
Māori	643	551	739	571	549
Pacific	25	30	47	17	29
Other	1,904	1,721	1,752	1,289	1,853
Total	2,572	2,302	2,538	1,877	2,431

Number of Initial Rescreens by Ethnicity

Table 3: BSA number of eligible screens and initial rescreens for women aged 50–67 years by ethnicity for the rescreen period 1 April 2017 to 30 June 2019 (eligible period 1 April 2015 to 30 June 2017)

Ethnicity	Number of eligible screens	Number of initial rescreens	%	CI (95%)
Māori	135	67	49.6%	(40.9, 58.4)
Pacific	4	1	25.0%	(0.6, 80.6)
Other	363	207	57.0%	(51.8, 62.2)
Total	502	275	54.8%	(50.3, 59.2)

Figure 3: BSA number of initial eligible rescreens by ethnicity



DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 30 June 2019

Figure 4: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2019 by District Health Board

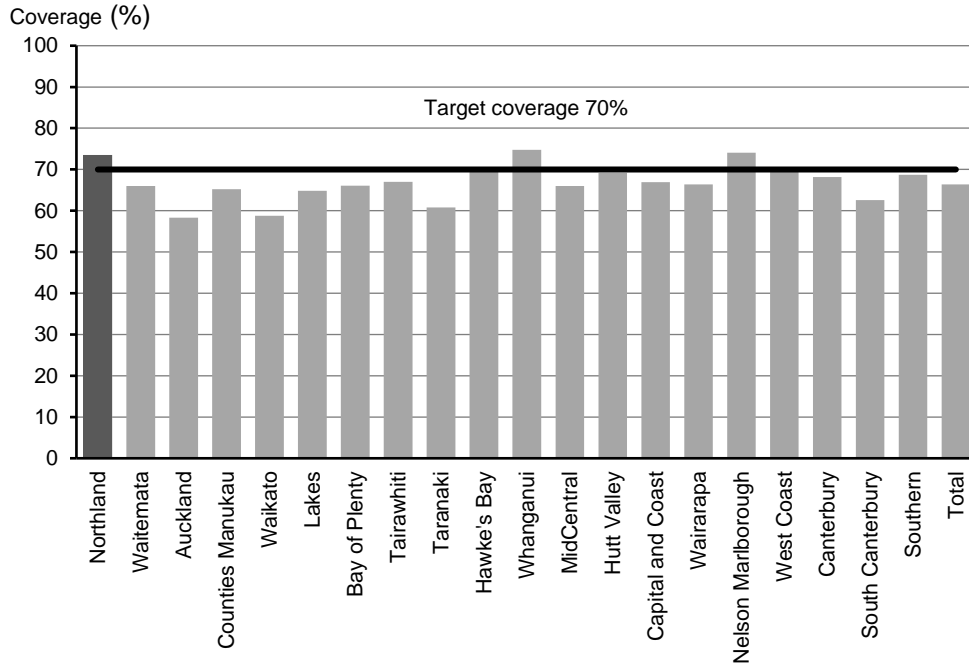


Figure 5: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2019 by District Health Board

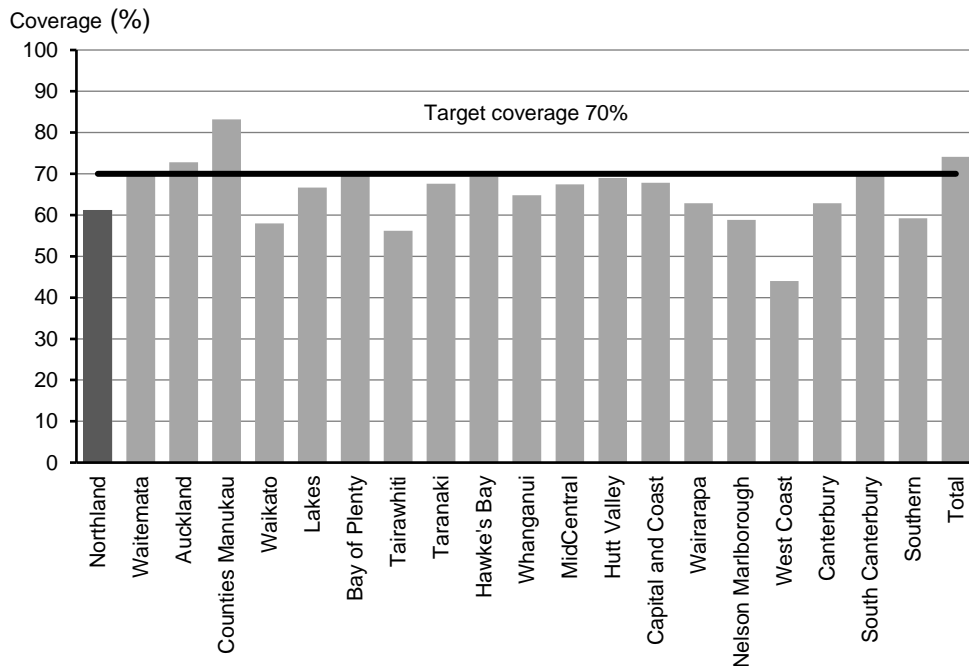


Figure 6: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2019 by District Health Board

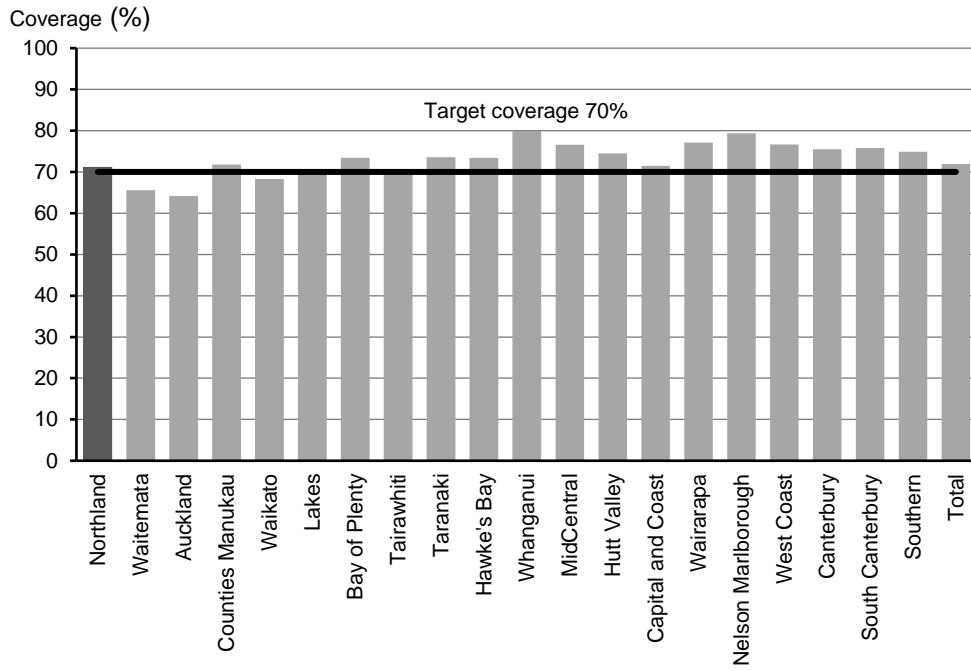


Figure 8: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2019

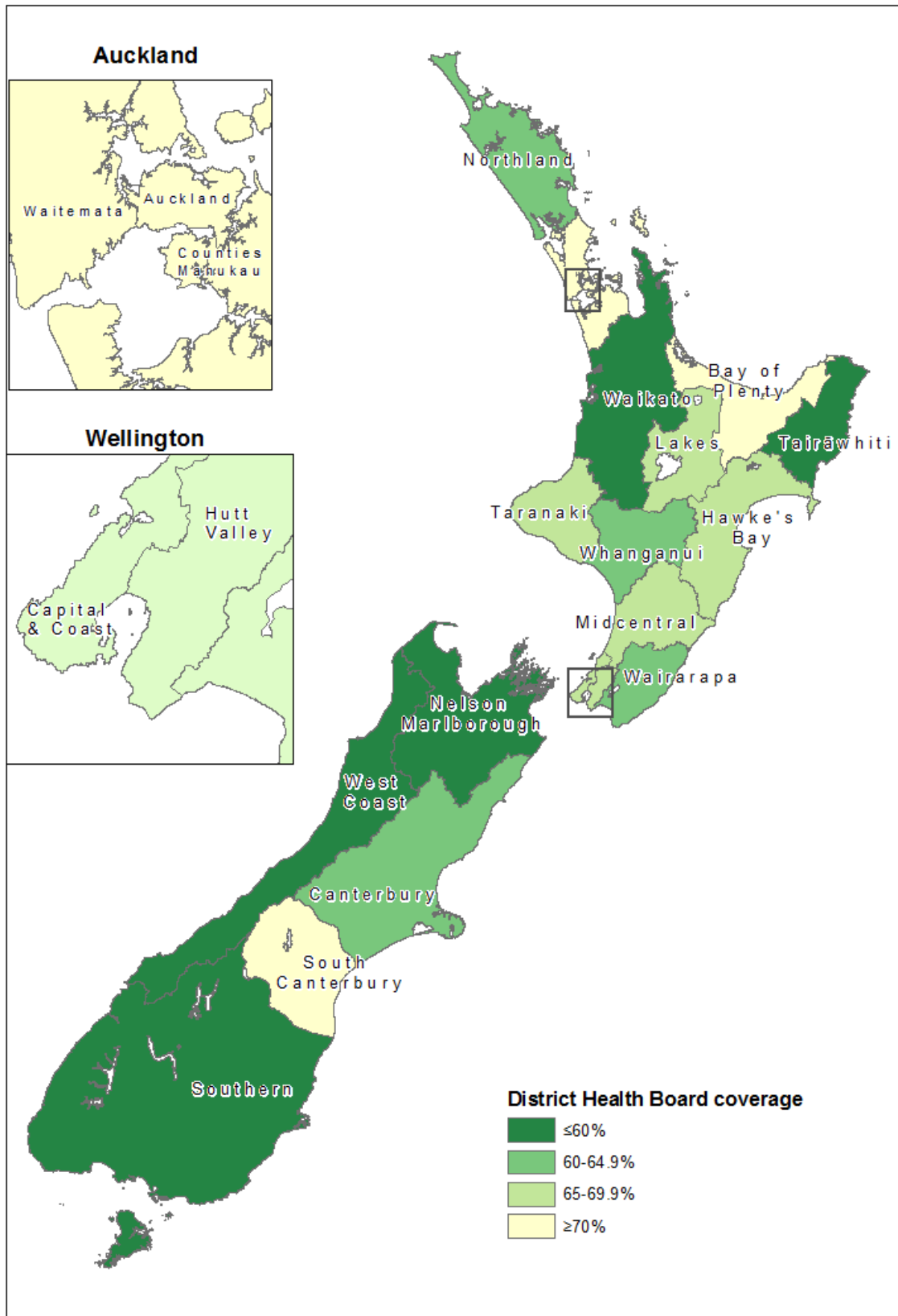


Figure 9: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2019 by District Health Board

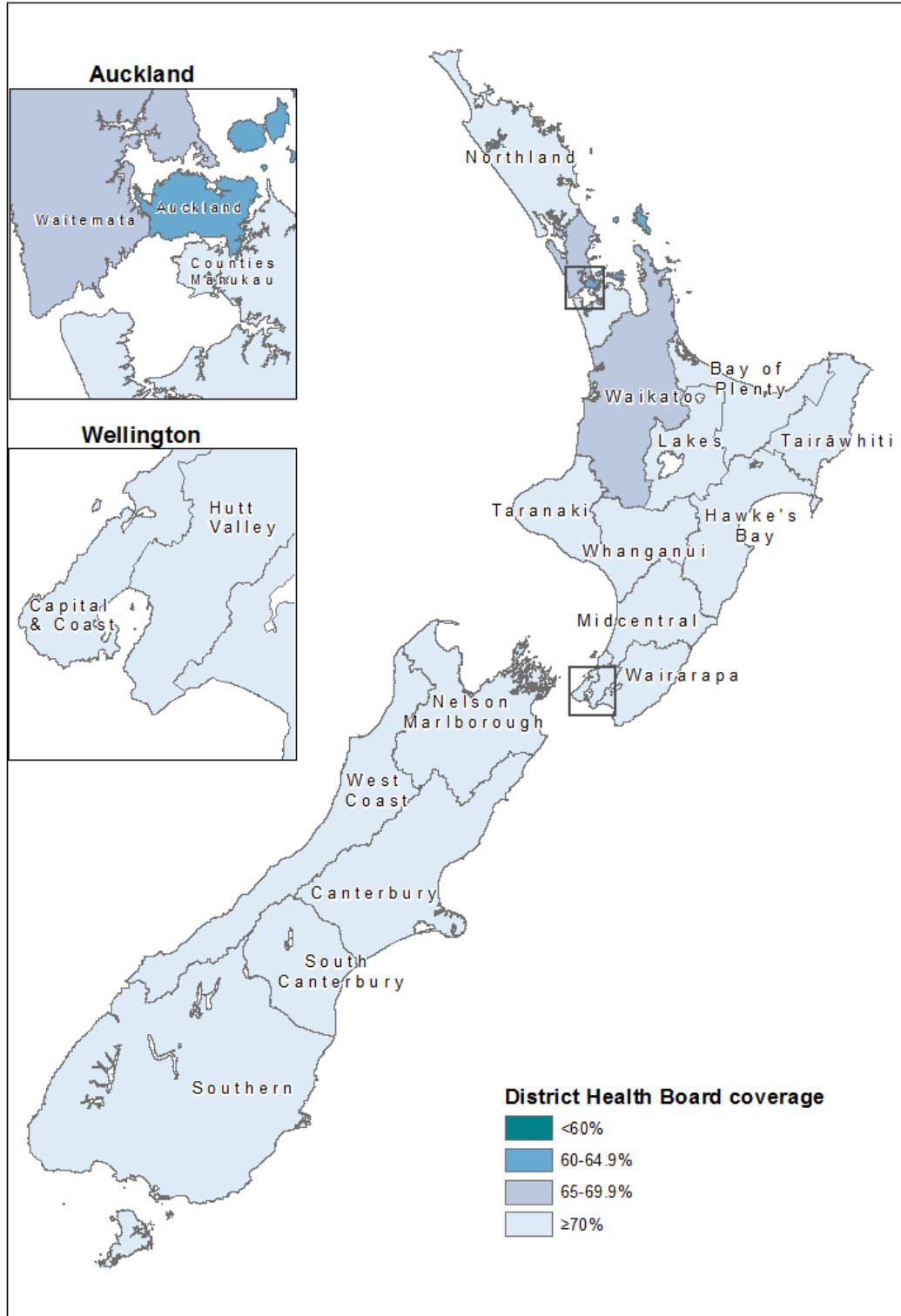


Table 4: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 30 June 2019 by District Health Board

DHB	Eligible Population					Screens						Coverage				
	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Unspecified	Total	Māori	Pacific	Asian	Other	Total
Northland	6,020	340	980	17,730	25,070	4,424	208	421	12,778	8	17,839	73.5%	61.2%	43.0%	72.1%	71.2%
Waitemata	4,880	3,710	14,490	49,010	72,090	3,221	2,616	9,632	31,774	18	47,261	66.0%	70.5%	66.5%	64.8%	65.6%
Auckland	3,800	5,010	16,360	29,430	54,600	2,215	3,649	10,645	18,417	125	35,051	58.3%	72.8%	65.1%	62.6%	64.2%
Counties Manukau	6,960	9,450	15,900	27,180	59,490	4,535	7,861	10,359	19,969	12	42,736	65.2%	83.2%	65.2%	73.5%	71.8%
Waikato	7,890	950	3,920	36,860	49,620	4,639	551	1,936	26,733	19	33,878	58.8%	58.0%	49.4%	72.5%	68.3%
Lakes	3,600	240	920	9,010	13,770	2,334	160	394	6,783	2	9,673	64.8%	66.7%	42.8%	75.3%	70.2%
Bay of Plenty	5,450	290	1,730	23,700	31,170	3,605	203	709	18,369	6	22,892	66.1%	70.0%	41.0%	77.5%	73.4%
Tairāwhiti	2,450	105	130	3,350	6,035	1,642	59	61	2,478	1	4,241	67.0%	56.2%	46.9%	74.0%	70.3%
Taranaki	1,850	105	550	12,810	15,315	1,124	71	245	9,817	8	11,265	60.8%	67.6%	44.5%	76.6%	73.6%
Hawke's Bay	3,720	420	890	17,390	22,420	2,620	291	418	13,118	19	16,466	70.4%	69.3%	47.0%	75.4%	73.4%
Whanganui	1,620	125	320	6,620	8,685	1,212	81	142	5,504	3	6,942	74.8%	64.8%	44.4%	83.1%	79.9%
MidCentral	2,840	390	1,450	17,730	22,410	1,874	263	773	14,255	8	17,173	66.0%	67.4%	53.3%	80.4%	76.6%
Hutt Valley	2,140	1,000	2,170	12,970	18,280	1,481	690	1,416	10,026	11	13,624	69.2%	69.0%	65.3%	77.3%	74.5%
Capital and Coast	2,850	2,000	4,980	26,170	36,000	1,907	1,355	2,843	19,598	37	25,740	66.9%	67.8%	57.1%	74.9%	71.5%
Wairarapa	700	70	175	5,510	6,455	465	44	100	4,357	8	4,974	66.4%	62.9%	57.1%	79.1%	77.1%
Nelson Marlborough	1,390	170	690	19,910	22,160	1,030	100	310	16,120	27	17,587	74.1%	58.8%	44.9%	81.0%	79.4%
West Coast	400	25	100	4,180	4,705	280	11	55	3,244	19	3,609	70.0%	44.0%	55.0%	77.6%	76.7%
Canterbury	3,740	940	5,690	58,050	68,420	2,551	591	2,816	45,658	53	51,669	68.2%	62.9%	49.5%	78.7%	75.5%
South Canterbury	420	40	250	7,860	8,570	263	28	73	6,126	2	6,492	62.6%	70.0%	29.2%	77.9%	75.8%
Southern	2,510	360	2,010	35,950	40,830	1,725	213	774	27,850	31	30,593	68.7%	59.2%	38.5%	77.5%	74.9%
Unspecified	0	0			0	150	28	138	1,198	0	1,514					
Total	65,230	25,740	73,705	421,420	586,095	43,297	19,073	44,260	314,172	417	421,219	66.4%	74.1%	60.1%	74.6%	71.9%

DHB coverage comparison trends by ethnicity

Table 5: BSA coverage (%) of women aged 50–69 years in the two years ending 30 June, 2017, 2018, 2019, by ethnicity and District Health Board

DHB	Māori			Pacific			Asian			Other			Total		
	Jun-17	Jun-18	Jun-19	Jun-17	Jun-18	Jun-19	Jun-17	Jun-18	Jun-19	Jun-17	Jun-18	Jun-19	Jun-17	Jun-18	Jun-19
Northland	72.2%	68.7%	73.5%	65.4%	61.6%	61.2%	47.5%	46.7%	43.0%	73.9%	72.3%	72.1%	72.5%	70.5%	71.2%
Waitemata	64.1%	64.6%	66.0%	66.1%	66.9%	70.5%	67.2%	66.8%	66.5%	65.6%	64.6%	64.8%	65.8%	65.2%	65.6%
Auckland	58.1%	58.9%	58.3%	71.6%	69.6%	72.8%	68.6%	65.9%	65.1%	60.4%	61.1%	62.6%	63.7%	63.3%	64.2%
Counties Manukau	64.5%	65.5%	65.2%	76.4%	82.4%	83.2%	64.1%	65.3%	65.2%	70.6%	72.0%	73.5%	69.2%	71.2%	71.8%
Waikato	58.5%	58.4%	58.8%	57.6%	58.4%	58.0%	49.9%	50.1%	49.4%	72.4%	73.0%	72.5%	68.5%	68.8%	68.3%
Lakes	64.6%	64.5%	64.8%	61.4%	62.5%	66.7%	46.9%	44.8%	42.8%	74.7%	75.0%	75.3%	70.4%	70.3%	70.2%
Bay of Plenty	58.2%	61.9%	66.1%	65.7%	71.1%	70.0%	42.8%	42.9%	41.0%	72.9%	76.2%	77.5%	69.0%	72.0%	73.4%
Tairāwhiti	68.1%	66.8%	67.0%	68.9%	59.0%	56.2%	51.7%	53.6%	46.9%	74.4%	73.8%	74.0%	71.4%	70.4%	70.3%
Taranaki	63.7%	61.6%	60.8%	62.1%	64.0%	67.6%	44.4%	46.4%	44.5%	77.3%	77.8%	76.6%	74.7%	74.8%	73.6%
Hawke's Bay	68.2%	70.2%	70.4%	67.2%	66.4%	69.3%	53.5%	50.5%	47.0%	75.5%	75.5%	75.4%	73.5%	73.6%	73.4%
Whanganui	70.8%	73.8%	74.8%	70.5%	68.7%	64.8%	52.8%	44.8%	44.4%	81.6%	81.9%	83.1%	78.7%	79.1%	79.9%
MidCentral	66.0%	65.0%	66.0%	67.2%	66.7%	67.4%	57.9%	53.7%	53.3%	79.2%	79.4%	80.4%	76.2%	75.8%	76.6%
Hutt Valley	69.1%	68.7%	69.2%	67.4%	66.4%	69.0%	69.5%	66.5%	65.3%	77.6%	75.3%	77.3%	75.3%	73.1%	74.5%
Capital and Coast	68.3%	68.2%	66.9%	68.4%	68.7%	67.8%	63.0%	60.4%	57.1%	76.0%	75.5%	74.9%	73.5%	72.7%	71.5%
Wairarapa	69.4%	70.7%	66.4%	67.7%	69.2%	62.9%	49.7%	57.5%	57.1%	77.8%	78.6%	79.1%	76.3%	77.3%	77.1%
Nelson Marlborough	76.9%	73.9%	74.1%	69.3%	70.7%	58.8%	45.6%	44.4%	44.9%	82.4%	80.5%	81.0%	81.2%	79.1%	79.4%
West Coast	68.6%	66.3%	70.0%	28.0%	40.0%	44.0%	56.3%	51.6%	55.0%	78.2%	75.7%	77.6%	77.2%	74.7%	76.7%
Canterbury	71.2%	68.8%	68.2%	63.9%	64.0%	62.9%	50.9%	49.2%	49.5%	78.9%	78.5%	78.7%	76.4%	75.6%	75.5%
South Canterbury	68.2%	66.3%	62.6%	57.1%	57.5%	70.0%	27.6%	31.8%	29.2%	78.9%	77.6%	77.9%	77.1%	75.9%	75.8%
Southern	68.0%	67.9%	68.7%	63.4%	61.5%	59.2%	43.3%	39.2%	38.5%	77.4%	77.0%	77.5%	75.5%	74.8%	74.9%
Total	65.5%	65.6%	66.4%	70.9%	72.8%	74.1%	62.3%	61.2%	60.1%	74.2%	74.2%	74.6%	71.9%	71.7%	71.9%