

BSA New Zealand Total District Health Board Coverage Report

For the period ending
30 September 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 September 2017 was extracted from the national BreastScreen Aotearoa database (the Database) on 17 October 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.

All women in the BSA database 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, these screens contribute to overall coverage but not to a particular ethnicity. This means that the sum of all women screened may be greater than the sum of women screened by ethnicity.

The denominators used for calculating coverage for the periods ending 30 September 2015, September 2016 and September 2017 are derived from Statistics New Zealand's District Health Board (DHB) population projections 2016 update, based on the 2013 Census.

From September 2016, the National Screening Unit (NSU) began reporting using the 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 September 2015, the denominator is the projected population for 30 September 2014
- 30 September 2016, the denominator is the projected population for 30 September 2015
- 30 September 2017, the denominator is the projected population for 30 September 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.

Total coverage

Total coverage by ethnicity in the two years ending 30 September 2017

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

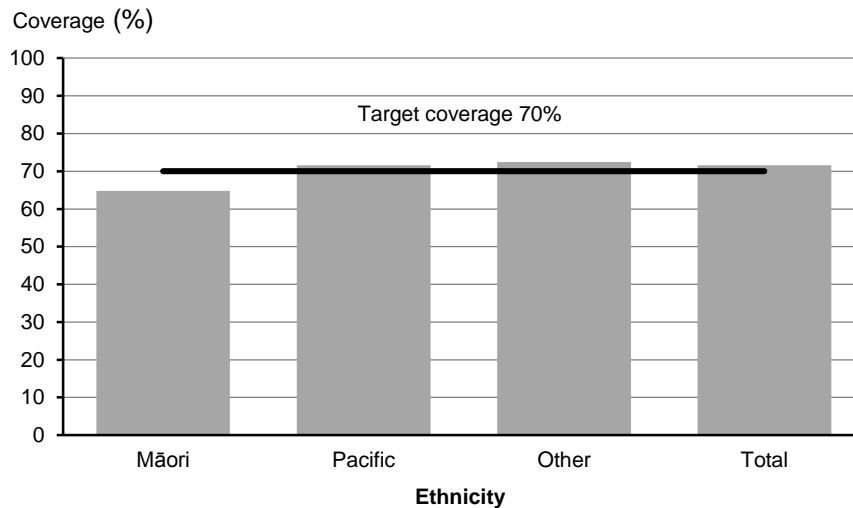


Table 1: BSA coverage (%) in the two years ending 30 September 2017 by ethnicity, women aged 50–69 years, Total Coverage

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach target*
Māori	62,242	40,315	64.80%	3,254
Pacific	23,790	17,027	71.60%	
Other	482,558	349,385	72.40%	
Unspecified		624		
Total	568,590	407,351	71.60%	

*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%.

Total coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 30 September 2017 by ethnicity, Total Coverage

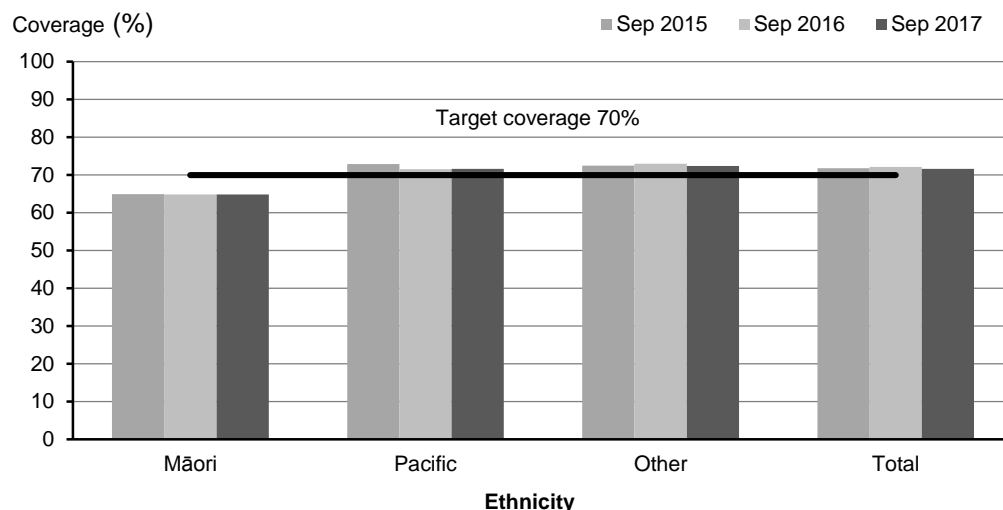


Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 3 2016 –Quarter 3 2017

Ethnicity	Number of screens by quarter				
	Q3 (Jul - Sep) 2016	Q4 (Oct - Dec) 2016	Q1 (Jan-Mar) 2017	Q2 (Apr - Jun) 2017	Q3 (Jul - Sep) 2017
Māori	4,791	4,323	5,501	5,703	5,863
Pacific	2,191	2,075	2,222	2,413	2,508
Other	47,202	37,759	43,092	47,920	50,856
Total	54,184	44,157	50,815	56,036	59,227

DHB coverage comparisons

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

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

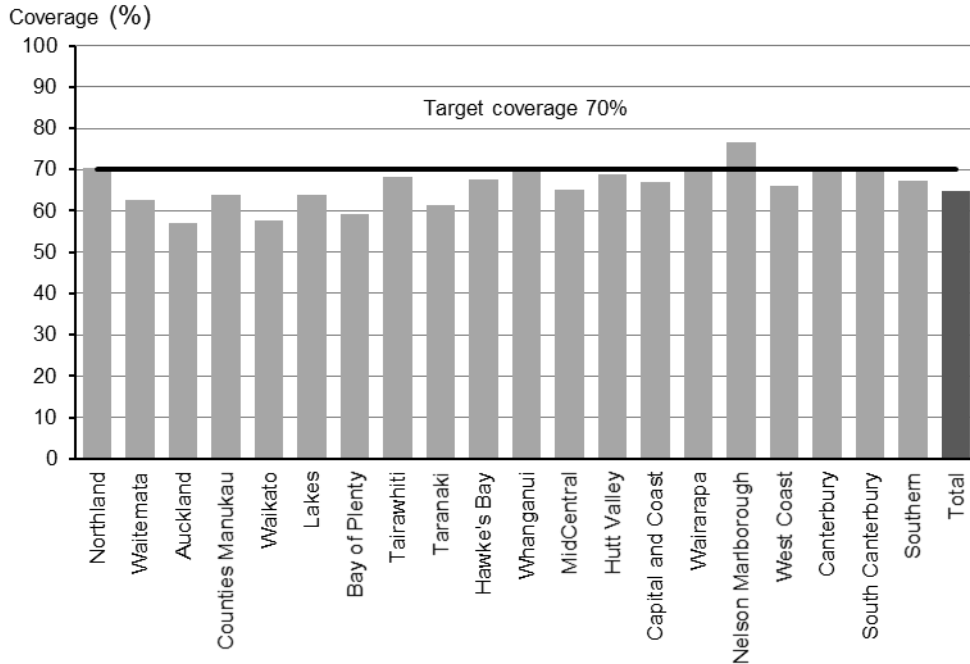


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 September 2017 by District Health Board

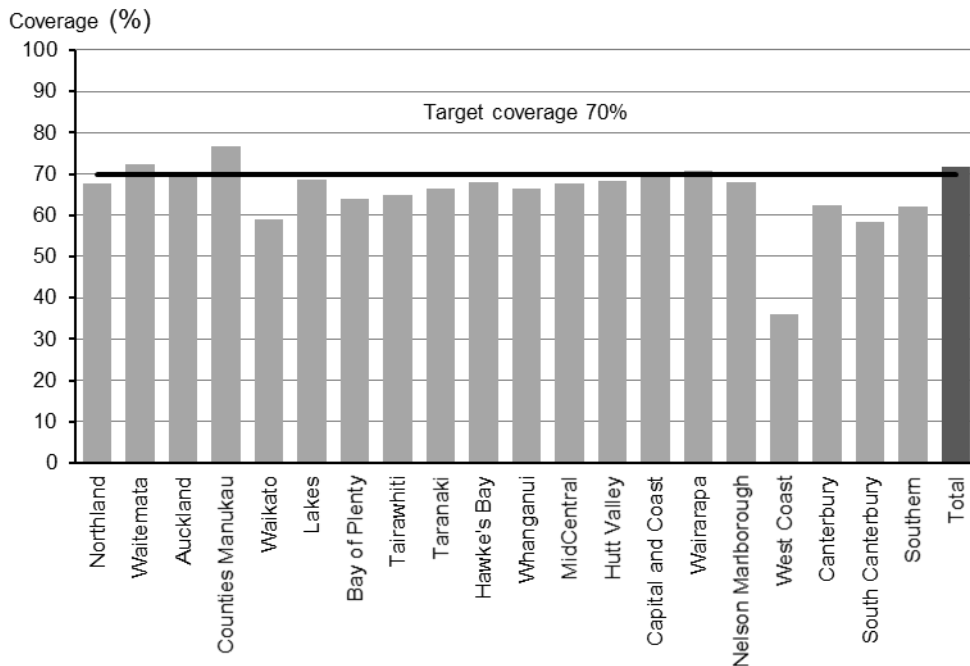


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 September 2017 by District Health Board

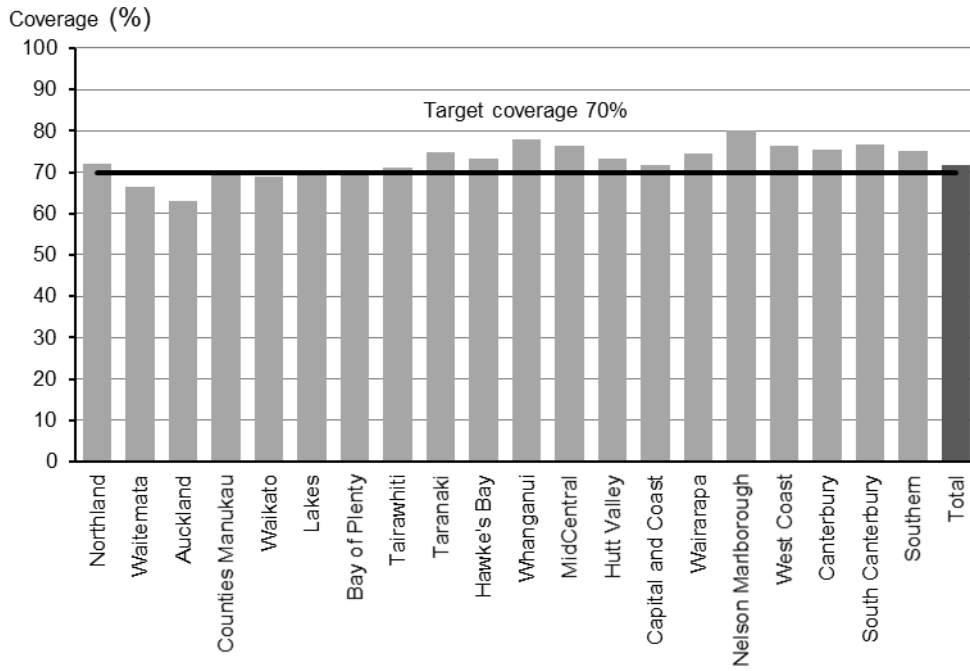


Figure 6: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 September 2017

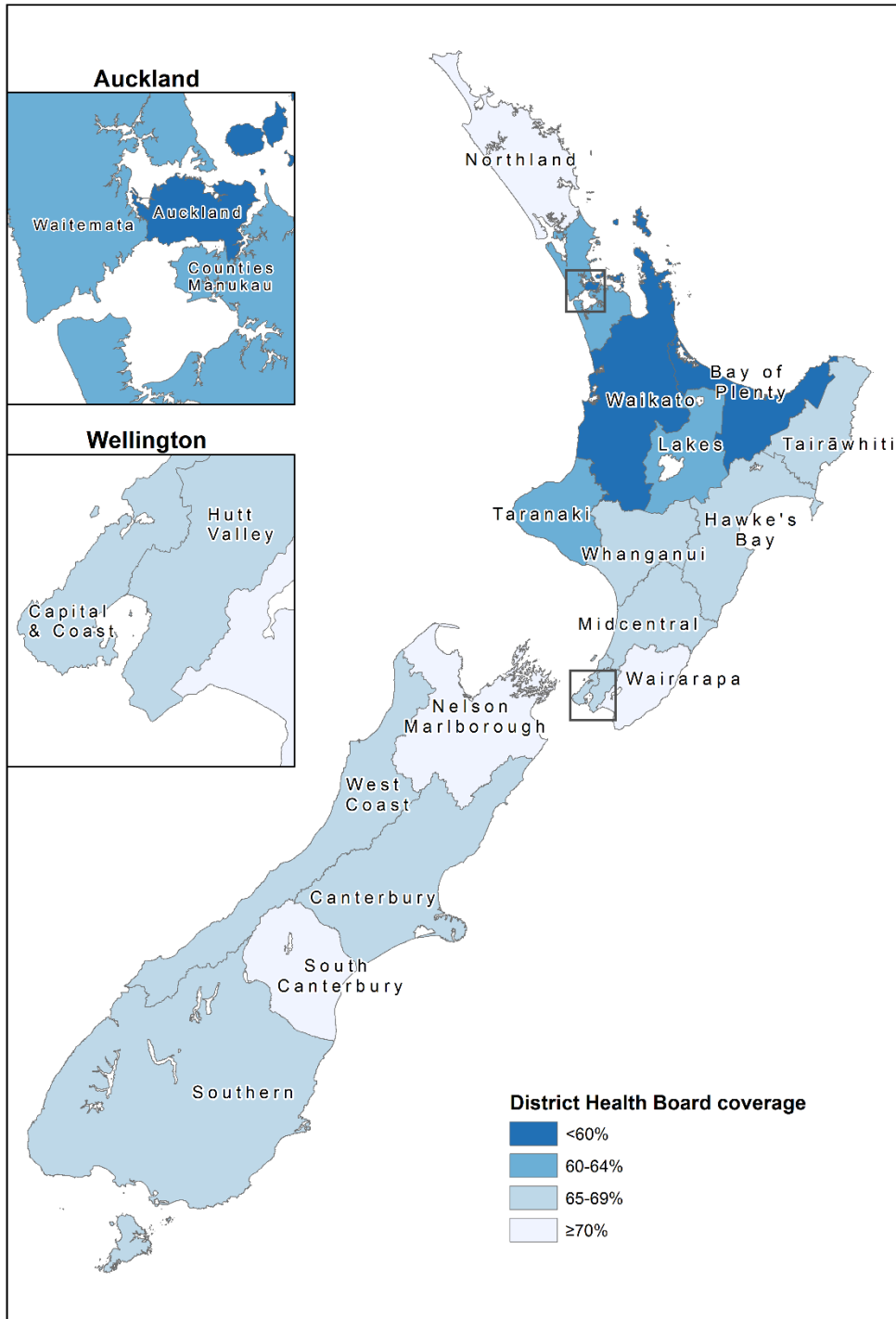


Figure 7: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 September 2017

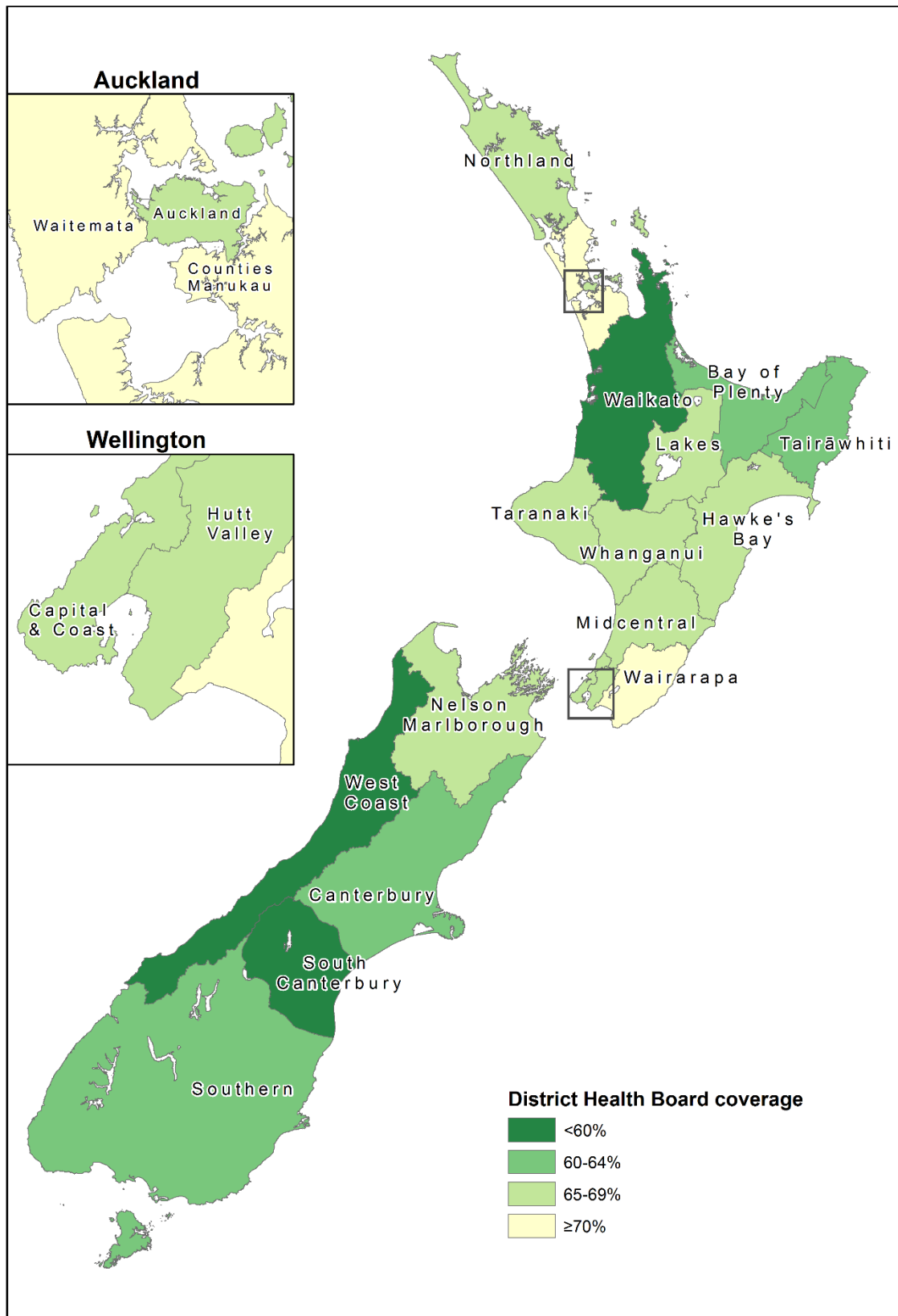


Figure 8: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 September 2017 by District Health Board

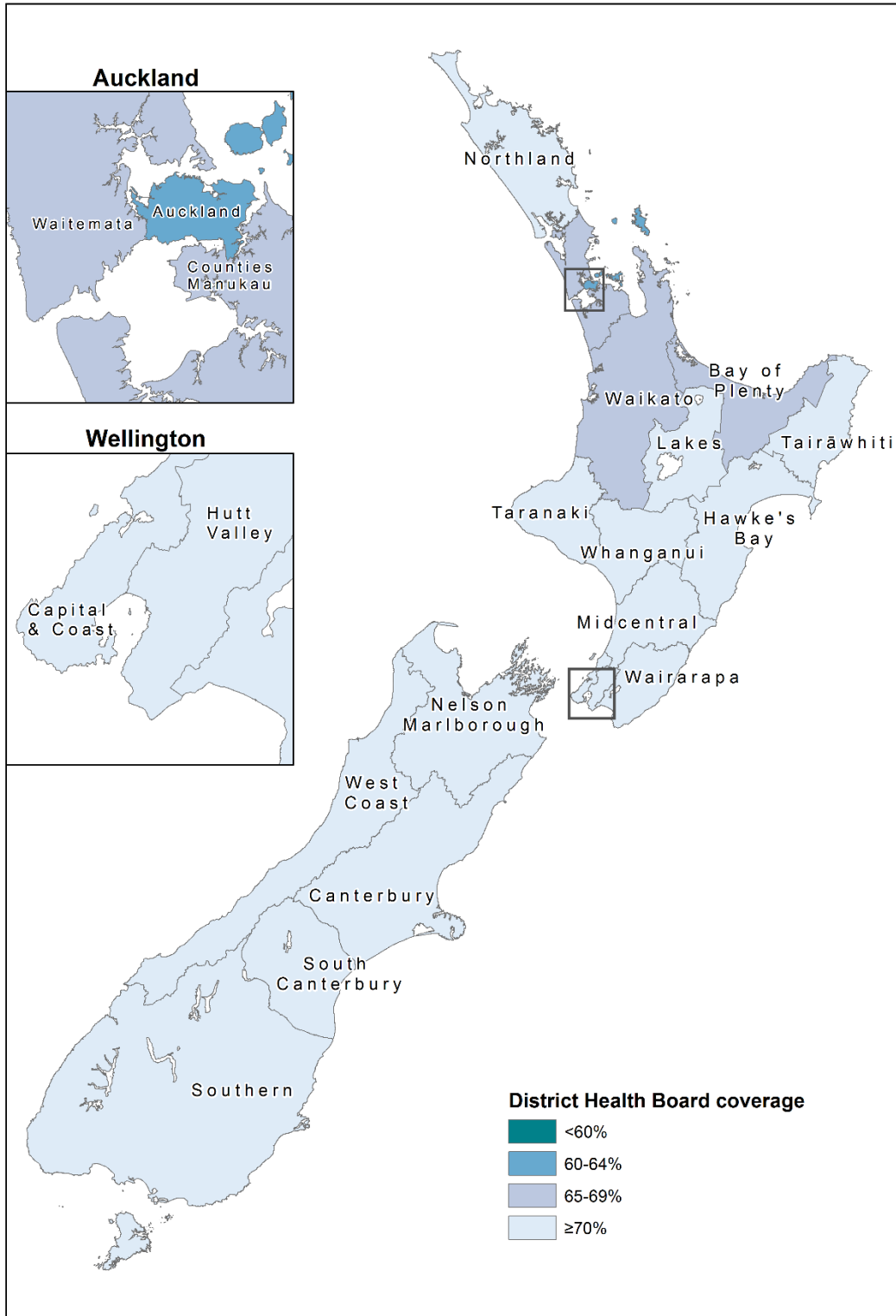


Table 3: BSA number of screens and coverage (%) in women aged 50–69 years in the two years ending 30 September 2017 by District Health Board

DHB	Eligible Population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	Unspecified	Total	Māori	Pacific	Other	Total
Northland	5,846	272	18,180	24,298	4,112	184	13,198	10	17,504	70.3%	67.6%	72.6%	72.0%
Waitemata	4,675	3,474	60,596	68,745	2,929	2,509	40,101	30	45,569	62.7%	72.2%	66.2%	66.3%
Auckland	3,573	4,701	44,284	52,558	2,042	3,253	27,759	106	33,160	57.2%	69.2%	62.7%	63.1%
Counties Manukau	6,644	8,681	41,722	57,047	4,251	6,649	28,763	35	39,698	64.0%	76.6%	68.9%	69.6%
Waikato	7,531	821	39,577	47,929	4,349	485	28,028	127	32,989	57.7%	59.1%	70.8%	68.8%
Lakes	3,463	211	9,970	13,644	2,216	145	7,241	21	9,623	64.0%	68.7%	72.6%	70.5%
Bay of Plenty	5,232	281	24,758	30,271	3,101	180	17,722	45	21,048	59.3%	64.1%	71.6%	69.5%
Tairāwhiti	2,336	91	3,508	5,935	1,590	59	2,564	2	4,215	68.1%	64.8%	73.1%	71.0%
Taranaki	1,744	95	13,090	14,929	1,070	63	10,048	4	11,185	61.4%	66.3%	76.8%	74.9%
Hawke's Bay	3,636	396	18,029	22,061	2,453	269	13,453	13	16,188	67.5%	67.9%	74.6%	73.4%
Whanganui	1,546	107	6,931	8,584	1,073	71	5,538	2	6,684	69.4%	66.4%	79.9%	77.9%
MidCentral	2,714	361	18,930	22,005	1,766	244	14,783	2	16,795	65.1%	67.6%	78.1%	76.3%
Hutt Valley	2,051	946	14,873	17,870	1,410	646	11,037	17	13,110	68.7%	68.3%	74.2%	73.4%
Capital and Coast	2,691	1,876	30,284	34,851	1,806	1,299	21,859	50	25,014	67.1%	69.2%	72.2%	71.8%
Wairarapa	675	65	5,587	6,327	474	46	4,184	3	4,707	70.2%	70.8%	74.9%	74.4%
Nelson Marlborough	1,319	140	20,436	21,895	1,009	95	16,425	30	17,559	76.5%	67.9%	80.4%	80.2%
West Coast	384	25	4,223	4,632	254	9	3,255	20	3,538	66.1%	36.0%	77.1%	76.4%
Canterbury	3,451	888	62,016	66,355	2,402	554	47,055	54	50,065	69.6%	62.4%	75.9%	75.5%
South Canterbury	393	36	8,061	8,490	276	21	6,202	6	6,505	70.2%	58.3%	76.9%	76.6%
Southern	2,338	323	37,503	40,164	1,576	201	28,312	42	30,131	67.4%	62.2%	75.5%	75.0%
Unspecified DHB					156	45	1,858	5	2,064				
Total	62,242	23,790	482,558	568,590	40,315	17,027	349,385	624	407,351	64.8%	71.6%	72.4%	71.6%

DHB coverage comparison trends by ethnicity

Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 30 September, 2015, 2016, 2017, by ethnicity and District Health Board

DHB	Māori			Pacific			Other		
	Sep 2015	Sep 2016	Sep 2017	Sep 2015	Sep 2016	Sep 2017	Sep 2015	Sep 2016	Sep 2017
Northland	67.9%	69.5%	70.3%	70.0%	68.1%	67.6%	71.7%	73.2%	72.6%
Waitemata	64.9%	63.9%	62.7%	73.8%	72.2%	72.2%	68.6%	68.3%	66.2%
Auckland	61.4%	57.4%	57.2%	73.4%	72.7%	69.2%	64.8%	64.0%	62.7%
Counties Manukau	65.9%	64.2%	64.0%	78.2%	75.0%	76.6%	67.8%	68.3%	68.9%
Waikato	59.0%	58.4%	57.7%	60.9%	58.4%	59.1%	70.1%	68.0%	70.8%
Lakes	62.6%	60.9%	64.0%	48.0%	58.1%	68.7%	71.4%	68.8%	72.6%
Bay of Plenty	59.2%	61.0%	59.3%	73.4%	69.3%	64.1%	72.5%	73.7%	71.6%
Tairāwhiti	65.2%	68.9%	68.1%	58.1%	60.0%	64.8%	71.5%	72.0%	73.1%
Taranaki	62.2%	60.4%	61.4%	67.5%	63.2%	66.3%	75.6%	75.7%	76.8%
Hawke's Bay	67.4%	67.4%	67.5%	67.8%	65.5%	67.9%	74.3%	74.8%	74.6%
Whanganui	70.5%	72.0%	69.4%	71.3%	75.2%	66.4%	77.7%	79.5%	79.9%
MidCentral	63.8%	65.8%	65.1%	67.5%	64.7%	67.6%	76.5%	77.6%	78.1%
Hutt Valley	65.4%	66.8%	68.7%	65.3%	66.8%	68.3%	70.9%	76.4%	74.2%
Capital and Coast	64.3%	67.6%	67.1%	66.8%	69.0%	69.2%	72.1%	74.5%	72.2%
Wairarapa	63.7%	70.2%	70.2%	82.1%	77.0%	70.8%	72.2%	77.8%	74.9%
Nelson Marlborough	74.0%	75.2%	76.5%	58.5%	66.9%	67.9%	76.8%	80.3%	80.4%
West Coast	71.1%	69.2%	66.1%	40.0%	35.0%	36.0%	74.6%	77.3%	77.1%
Canterbury	73.1%	69.7%	69.6%	63.8%	63.8%	62.4%	79.6%	78.0%	75.9%
South Canterbury	70.8%	67.9%	70.2%	53.3%	58.1%	58.3%	79.2%	77.3%	76.9%
Southern	65.5%	66.1%	67.4%	60.9%	61.0%	62.2%	72.4%	77.2%	75.5%
Total	64.9%	64.8%	64.8%	72.9%	71.5%	71.6%	72.5%	73.0%	72.4%