

# **BSA District Health Board Coverage Report**

For the period ending 31 December  
2015



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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 number of women screened for the two-year periods ending 31 December 2013, 31 December 2014 and 31 December 2015 were extracted from the national Breast Screen Aotearoa database (the Database) on 19 January 2016.

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 December 2014 and 31 December 2015 are derived from Statistics New Zealand's District Health Board (DHB) population projections 2014 update, based on the 2013 Census. For the periods ended 31 December 2013, the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census was used.

The denominator is the projected population for the mid-point of the monitoring period.

This means that for the two-year period ending:

- 31 December 2013, the denominator is the population estimate for 31 December 2012
- 31 December 2014, the denominator is the projected population for 31 December 2013
- 31 December 2015, the denominator is the projected population for 31 December 2014

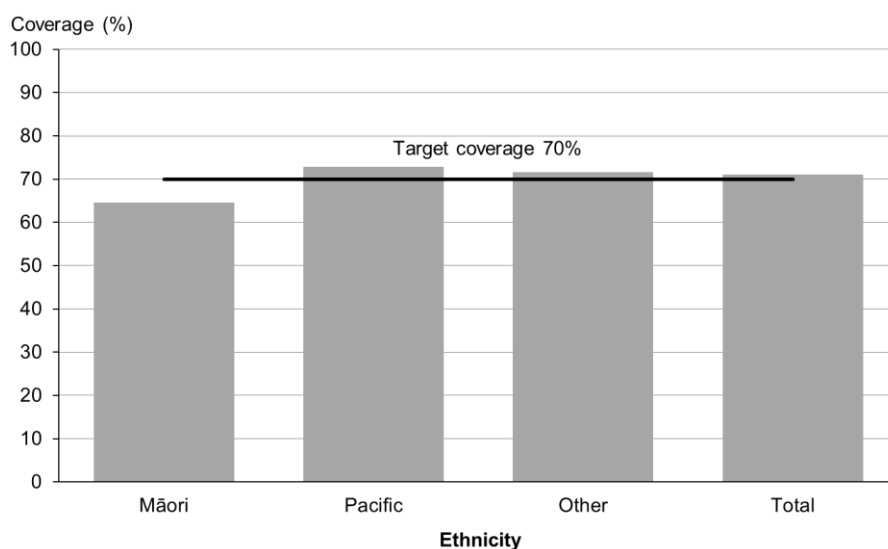
Delivery of BSA services through mobile units may also result in fluctuations in the number of women screened in a quarter which may impact on coverage from year to year depending on the mobile unit schedule.

Additional detail on the methodology can be obtained via a request made to [screening@moh.govt.nz](mailto:screening@moh.govt.nz).

## New Zealand coverage

### New Zealand coverage by ethnicity in the two years ending 31 December 2015

**Figure 1: BSA coverage (%) in the two years ending 31 December 2015 by ethnicity, women aged 50–69 years, All District Health Boards**



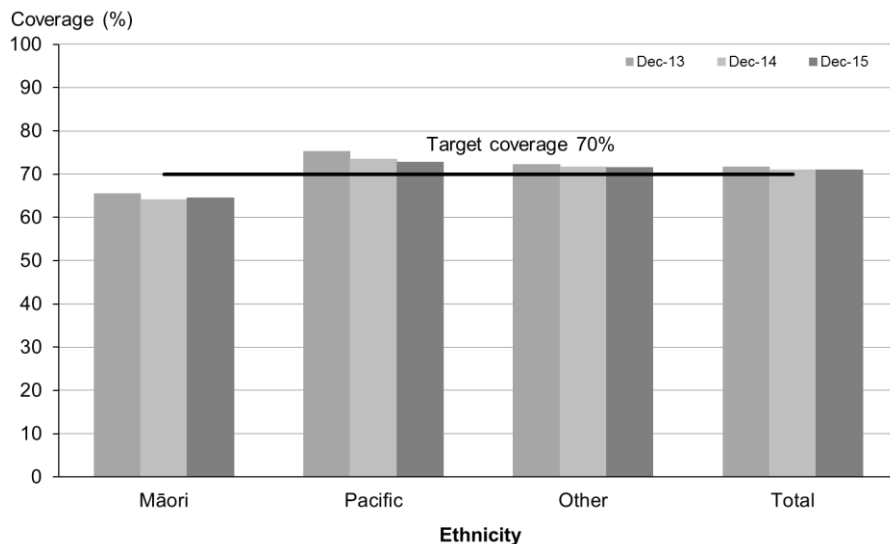
**Table 1: BSA coverage (%) in the two years ending 31 December 2015 by ethnicity, women aged 50–69 years, All District Health Boards**

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	57,825	37,277	64.5%	3,201
Pacific	22,368	16,276	72.8%	
Other	470,830	337,080	71.6%	
Unspecified		240		
<b>Total*</b>	<b>551,010</b>	<b>390,873</b>	<b>70.9%</b>	

\*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 includes women of unknown ethnicity, and therefore is greater than the sum of Māori, Pacific and Other.

## New Zealand coverage trends by ethnicity

**Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2013, 31 December 2014, and 31 December 2015\* by ethnicity, All District Health Boards**



\* December 2013 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the December 2014 and December 2015 uses the 30 June 2014 update of the 2013 census based population projections

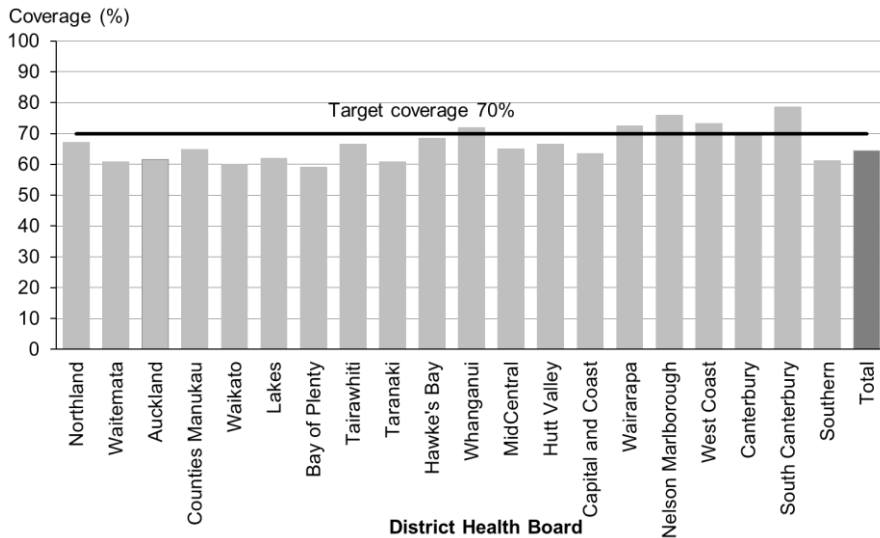
**Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 4 2014–Quarter 4 2015, All District Health Boards**

Ethnicity	Number of screens by quarter				
	Q4 (Oct-Dec) 2014	Q1 (Jan-Mar) 2015	Q2 (Apr - Jun) 2015	Q3 (Jul - Sep) 2015	Q4 (Oct - Dec) 2015
Māori	4,502	4,875	5,297	5,241	4,415
Pacific	2,148	1,893	2,189	2,389	2,056
Other	41,567	42,330	47,203	49,617	39,166
<b>Total</b>	<b>48,217</b>	<b>49,098</b>	<b>54,689</b>	<b>57,247</b>	<b>45,637</b>

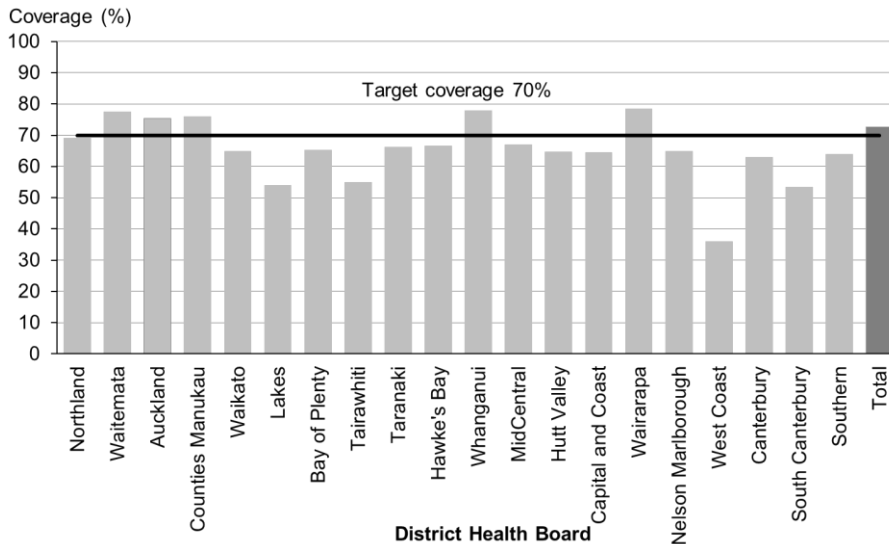
# DHB coverage comparisons

## DHB coverage by ethnicity in the two years ending 31 December 2015

**Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2015 by District Health Board**

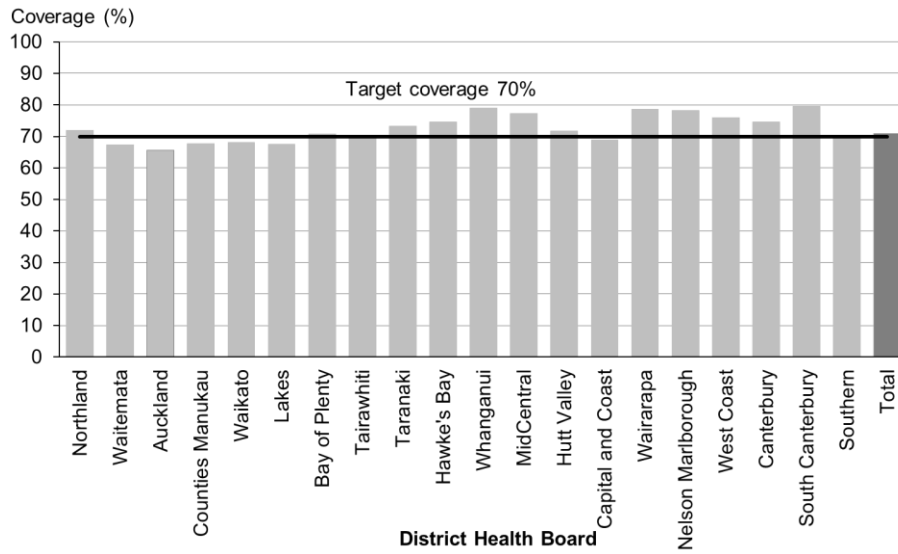


**Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2015 by District Health Board**





**Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2015 by District Health Board**



**Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 31 December 2015 by District Health Board**

DHB name	Eligible population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A*	Total	Māori	Pacific	Other	Total
Northland	5,505	245	17,930	23,675	3,697	169	13,152	9	17,027	67.2%	69.0%	73.4%	71.9%
Waitemata	4,300	3,250	59,330	66,885	2,616	2,519	39,907	15	45,057	60.8%	77.5%	67.3%	67.4%
Auckland	3,345	4,475	42,105	49,910	2,059	3,375	27,330	13	32,777	61.6%	75.4%	64.9%	65.7%
Counties Manukau	6,100	8,135	40,695	54,915	3,955	6,171	27,055	1	37,182	64.8%	75.9%	66.5%	67.7%
Waikato	7,060	740	38,785	46,580	4,244	480	26,926	51	31,701	60.1%	64.9%	69.4%	68.1%
Lakes	3,225	200	9,755	13,185	2,001	108	6,789	10	8,908	62.0%	54.0%	69.6%	67.6%
Bay of Plenty	4,930	230	24,245	29,410	2,916	150	17,720	16	20,802	59.1%	65.2%	73.1%	70.7%
Tairāwhiti	2,195	88	3,498	5,780	1,463	48	2,518	0	4,029	66.7%	54.9%	72.0%	69.7%
Taranaki	1,605	80	13,110	14,790	977	53	9,808	0	10,838	60.9%	66.3%	74.8%	73.3%
Hawke's Bay	3,450	370	17,765	21,575	2,361	246	13,494	5	16,106	68.4%	66.5%	76.0%	74.7%
Whanganui	1,450	95	6,835	8,365	1,044	74	5,496	2	6,616	72.0%	77.9%	80.4%	79.1%
MidCentral	2,505	335	18,650	21,480	1,630	224	14,736	2	16,592	65.1%	66.9%	79.0%	77.2%
Hutt Valley	1,910	930	14,505	17,355	1,271	601	10,558	15	12,445	66.5%	64.6%	72.8%	71.7%
Capital & Coast	2,505	1,875	29,025	33,395	1,592	1,208	20,153	36	22,989	63.6%	64.4%	69.4%	68.8%
Wairarapa	625	60	5,563	6,250	453	47	4,417	2	4,919	72.5%	78.3%	79.4%	78.7%
Nelson Marlborough	1,230	125	19,965	21,320	934	81	15,680	2	16,697	75.9%	64.8%	78.5%	78.3%
West Coast	360	25	4,243	4,630	264	9	3,239	0	3,512	73.3%	36.0%	76.3%	75.9%
Canterbury	3,075	800	60,250	64,120	2,129	504	45,152	28	47,813	69.2%	63.0%	74.9%	74.6%
South Canterbury	355	30	7,948	8,320	279	16	6,330	1	6,626	78.6%	53.3%	79.6%	79.6%
Southern	2,095	280	36,630	39,010	1,283	179	25,888	32	27,382	61.2%	63.9%	70.7%	70.2%
Unspecified	0	0	0	60	109	14	732	0	855				
<b>National</b>	<b>57,825</b>	<b>22,368</b>	<b>470,830</b>	<b>551,010</b>	<b>37,277</b>	<b>16,276</b>	<b>337,080</b>	<b>240</b>	<b>390,873</b>	<b>64.5%</b>	<b>72.8%</b>	<b>71.6%</b>	<b>70.9%</b>

\* N/A = not applicable, ethnicity of screened women was not recorded.

## DHB coverage by ethnicity

**Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2013, 2014 and 2015\*, by ethnicity and District Health Board**

District Health Board	Māori			Pacific			Other		
	Dec-13	Dec-14	Dec-15	Dec-13	Dec-14	Dec-15	Dec-13	Dec-14	Dec-15
Northland	71.9%	67.9%	67.2%	79.0%	73.9%	69.0%	74.9%	73.4%	73.4%
Waitemata	61.2%	59.7%	60.8%	79.3%	75.8%	77.5%	65.2%	65.9%	67.3%
Auckland	67.1%	63.5%	61.6%	79.5%	76.8%	75.4%	66.1%	65.4%	64.9%
Counties Manukau	67.1%	66.9%	64.8%	80.7%	79.3%	75.9%	66.5%	67.5%	66.5%
Waikato	56.2%	56.4%	60.1%	58.7%	64.5%	64.9%	66.2%	68.9%	69.4%
Lakes	60.1%	63.0%	62.0%	45.9%	49.5%	54.0%	68.0%	70.5%	69.6%
Bay of Plenty	60.1%	58.1%	59.1%	72.9%	69.0%	65.2%	71.2%	70.1%	73.1%
Tairāwhiti	67.4%	66.6%	66.7%	56.5%	54.2%	54.9%	73.9%	74.2%	72.0%
Taranaki	63.8%	61.5%	60.9%	72.6%	63.4%	66.3%	78.4%	76.3%	74.8%
Hawke's Bay	67.4%	67.4%	68.4%	64.8%	66.9%	66.5%	74.7%	75.0%	76.0%
Whanganui	75.3%	68.4%	72.0%	84.7%	75.4%	77.9%	81.5%	77.4%	80.4%
MidCentral	64.5%	63.1%	65.1%	75.2%	68.7%	66.9%	77.2%	77.9%	79.0%
Hutt Valley	63.1%	67.0%	66.5%	63.0%	65.8%	64.6%	71.3%	75.2%	72.8%
Capital & Coast	61.2%	58.7%	63.6%	58.8%	56.8%	64.4%	67.9%	67.6%	69.4%
Wairarapa	66.9%	66.6%	72.5%	82.1%	80.0%	78.3%	74.6%	74.7%	79.4%
Nelson Marlborough	82.2%	79.1%	75.9%	77.9%	66.1%	64.8%	82.5%	80.7%	78.5%
West Coast	78.7%	74.4%	73.3%	30.0%	35.6%	36.0%	78.2%	78.0%	76.3%
Canterbury	75.5%	71.1%	69.2%	66.8%	64.2%	63.0%	79.0%	76.1%	74.9%
South Canterbury	79.3%	75.4%	78.6%	54.5%	50.0%	53.3%	82.0%	80.2%	79.6%
Southern	67.3%	63.5%	61.2%	64.3%	60.4%	63.9%	77.4%	73.6%	70.7%
<b>NATIONAL</b>	<b>65.5%</b>	<b>64.0%</b>	<b>64.5%</b>	<b>75.3%</b>	<b>73.5%</b>	<b>72.8%</b>	<b>72.2%</b>	<b>71.7%</b>	<b>71.6%</b>

\* December 2013 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the December 2014 and December 2015 uses the 30 June 2014 update of the 2013 census based population projections

Key ■ ≥ 70% ■ 60–69.9% ■ < 60%