

# **BSA Canterbury District Health Board Coverage Report**

For the period ending 31 March 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 March 2013, 31 March 2014 and 31 March 2015 were extracted from the national Breast Screen Aotearoa database (the Database) on 24 April 2015.

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 are derived from Statistics New Zealand's District Health Board (DHB) population projections 30 June 2014 update. For 31 March 2013 and 31 March 2014, 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 March 2015, the denominator is the projected population for 31 March 2014.

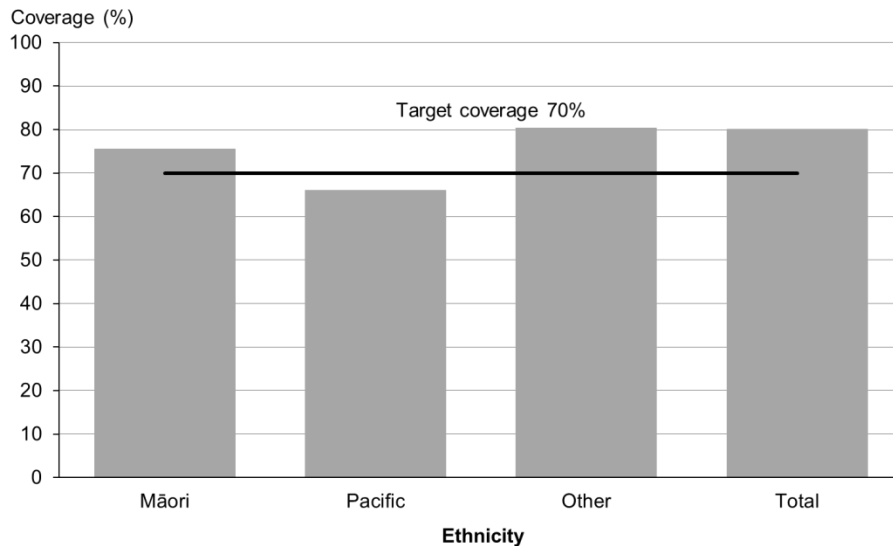
Delivery of BSA services through mobile units may also result in fluctuations in the number of women screened in a quarter which may impact on coverage from year to year depending on the mobile unit schedule.

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

# Canterbury DHB coverage

## Canterbury coverage by ethnicity in the two years ending 31 March 2015

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



**Table 1: BSA coverage (%) in the two years ending 31 March 2015 by ethnicity, women aged 50–69 years, Canterbury District Health Board\***

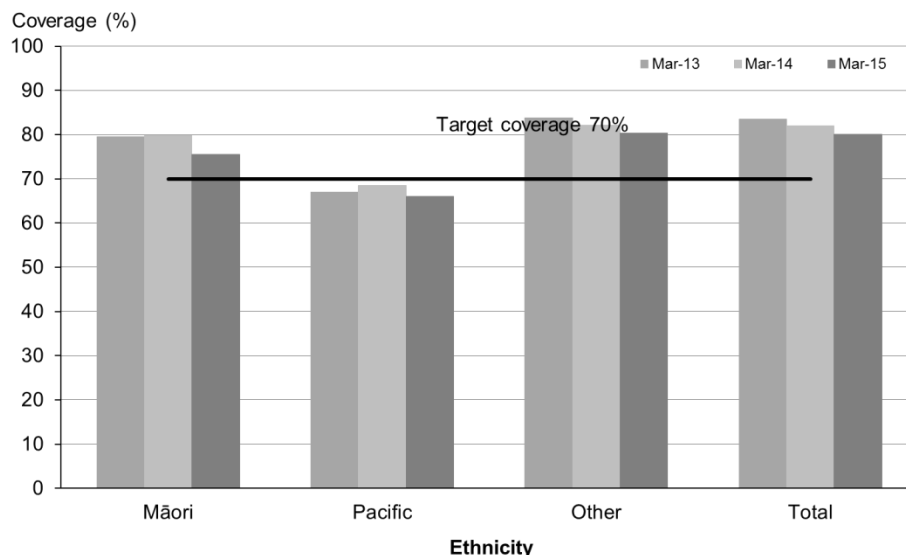
Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	2,940	2,220	75.5%	
Pacific	770	508	66.0%	31
Other	58,985	47,397	80.4%	
<b>Total*</b>	<b>62,695</b>	<b>50,158</b>	<b>80.0%</b>	

\*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.

## Canterbury coverage trends by ethnicity

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



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

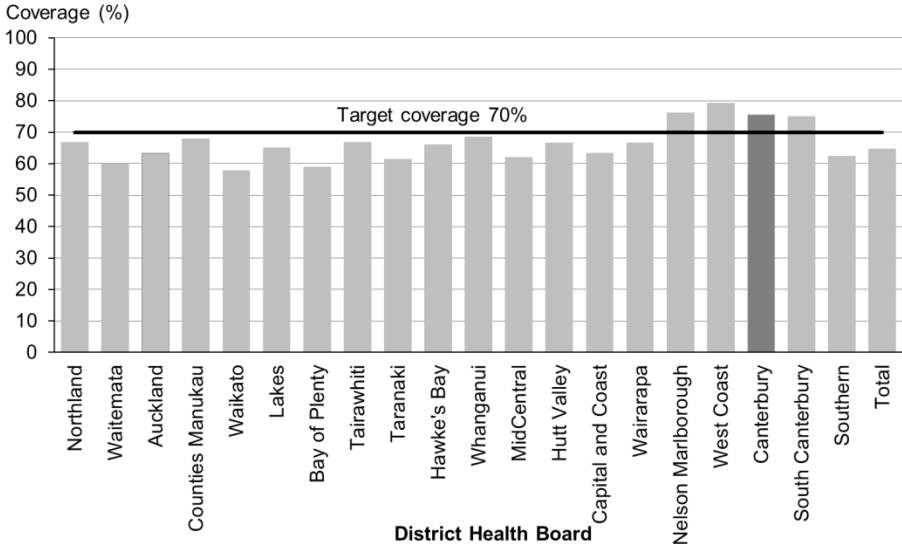
**Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 1 2014 – Quarter 1 2015, Canterbury District Health Board**

Ethnicity	Number of screens by quarter				
	Q1 (Jan-Mar) 2014	Q2 (Apr-Jun) 2014	Q3 (Jul-Sep) 2014	Q4 (Oct-Dec) 2014	Q1 (Jan-Mar) 2015
Māori	337	319	288	169	310
Pacific	65	71	74	36	63
Other	5,544	6,520	7,188	4,136	5,847
<b>Total</b>	<b>5,946</b>	<b>6,910</b>	<b>7,550</b>	<b>4,341</b>	<b>6,220</b>

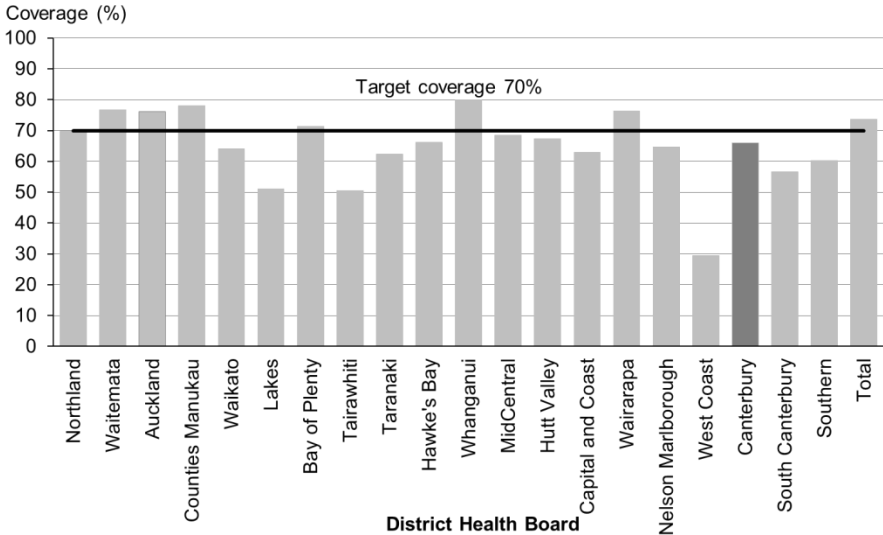
# DHB coverage comparisons

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

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

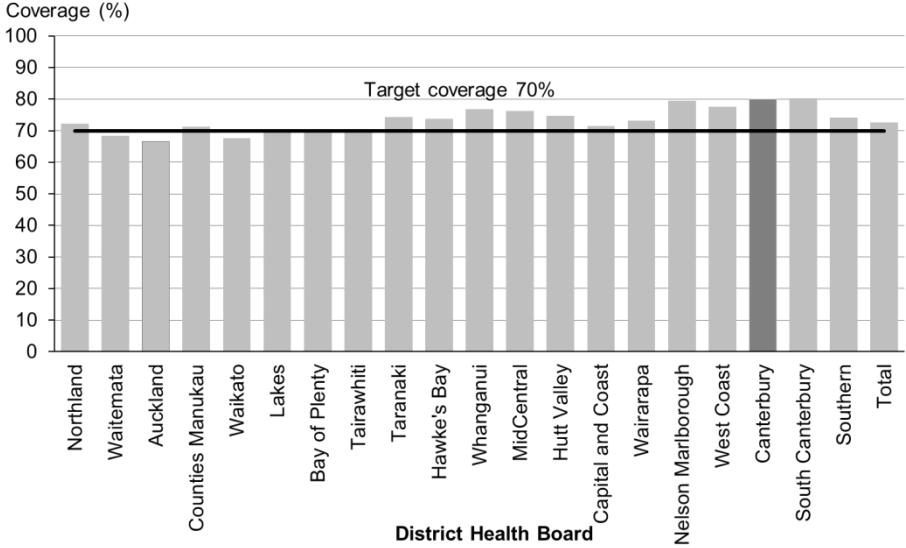


**Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2015 by District Health Board**





**Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 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 March 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	5,350	235	17,730	23,315	3,569	164	13,064	2	16,799	66.7%	69.8%	73.7%	72.1%
Waitemata	4,180	3,155	58,075	65,410	2,506	2,422	39,776	7	44,711	60.0%	76.8%	68.5%	68.4%
Auckland	3,255	4,405	41,165	48,825	2,059	3,357	27,050	1	32,467	63.3%	76.2%	65.7%	66.5%
Counties Manukau	5,940	7,835	39,752	53,527	4,033	6,113	27,892	3	38,041	67.9%	78.0%	70.2%	71.1%
Waikato	6,867	712	38,260	45,839	3,961	457	26,492	46	30,956	57.7%	64.2%	69.2%	67.5%
Lakes	3,157	200	9,615	12,972	2,053	102	6,889	11	9,055	65.0%	51.0%	71.6%	69.8%
Bay of Plenty	4,805	210	23,915	28,930	2,829	150	17,067	16	20,062	58.9%	71.4%	71.4%	69.3%
Tairāwhiti	2,155	81	3,451	5,687	1,440	41	2,510	3	3,994	66.8%	50.6%	72.7%	70.2%
Taranaki	1,565	73	12,895	14,533	960	46	9,768	3	10,777	61.3%	63.0%	75.8%	74.2%
Hawke's Bay	3,370	360	17,547	21,277	2,222	238	13,179	31	15,670	65.9%	66.1%	75.1%	73.6%
Whanganui	1,417	88	6,765	8,270	972	71	5,289	5	6,337	68.6%	80.7%	78.2%	76.6%
MidCentral	2,435	315	18,447	21,197	1,509	216	14,409	8	16,142	62.0%	68.6%	78.1%	76.2%
Hutt Valley	1,860	902	14,315	17,077	1,239	607	10,906	13	12,765	66.6%	67.3%	76.2%	74.7%
Capital and Coast	2,447	1,847	28,502	32,796	1,548	1,161	20,655	39	23,403	63.3%	62.9%	72.5%	71.4%
Wairarapa	602	53	5,510	6,165	401	41	4,068	2	4,512	66.6%	77.4%	73.8%	73.2%
Nelson Marlborough	1,187	117	19,680	20,984	904	76	15,660	6	16,646	76.2%	65.0%	79.6%	79.3%
West Coast	345	23	4,182	4,550	273	7	3,248		3,528	79.1%	30.4%	77.7%	77.5%
<b>Canterbury</b>	<b>2,940</b>	<b>770</b>	<b>58,985</b>	<b>62,695</b>	<b>2,220</b>	<b>508</b>	<b>47,397</b>	<b>33</b>	<b>50,158</b>	<b>75.5%</b>	<b>66.0%</b>	<b>80.4%</b>	<b>80.0%</b>
South Canterbury	352	30	7,855	8,237	264	17	6,302	1	6,584	75.0%	56.7%	80.2%	79.9%
Southern	2,010	267	36,162	38,439	1,252	161	27,046	40	28,499	62.3%	60.3%	74.8%	74.1%
Unspecified				60	115	15	796	2	928				
<b>Total</b>	<b>56,239</b>	<b>21,678</b>	<b>462,808</b>	<b>540,725</b>	<b>36,329</b>	<b>15,970</b>	<b>339,463</b>	<b>272</b>	<b>392,034</b>	<b>64.6%</b>	<b>73.7%</b>	<b>73.3%</b>	<b>72.5%</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 March 2013, 2014 and 2015\*, by ethnicity and District Health Board**

District Health Board	Māori			Pacific			Other		
	Mar-13	Mar-14	Mar-15	Mar-13	Mar-14	Mar-15	Mar-13	Mar-14	Mar-15
Northland	70.0%	69.9%	66.7%	71.4%	75.7%	69.8%	74.2%	74.2%	73.7%
Waitemata	63.6%	62.6%	60.0%	80.9%	78.4%	76.8%	66.1%	67.8%	68.5%
Auckland	66.3%	66.5%	63.3%	77.2%	78.0%	76.2%	65.1%	67.3%	65.7%
Counties Manukau	67.8%	68.6%	67.9%	78.3%	79.2%	78.0%	68.3%	70.2%	70.2%
Waikato	52.8%	54.1%	57.7%	54.2%	55.4%	64.2%	65.2%	66.3%	69.2%
Lakes	58.0%	61.8%	65.0%	43.1%	47.5%	51.0%	69.5%	70.3%	71.6%
Bay of Plenty	59.2%	58.0%	58.9%	65.1%	70.6%	71.4%	72.7%	69.7%	71.4%
Tairāwhiti	66.9%	68.3%	66.8%	53.3%	59.4%	50.6%	71.6%	75.2%	72.7%
Taranaki	62.0%	62.2%	61.3%	73.7%	69.8%	63.0%	76.6%	78.4%	75.8%
Hawke's Bay	66.4%	65.3%	65.9%	64.2%	64.2%	66.1%	74.3%	75.8%	75.1%
Whanganui	72.1%	70.1%	68.6%	75.2%	77.6%	80.7%	80.3%	80.3%	78.2%
MidCentral	64.6%	62.6%	62.0%	70.7%	74.3%	68.6%	76.6%	76.8%	78.1%
Hutt Valley	60.7%	64.7%	66.6%	63.2%	63.7%	67.3%	66.9%	72.3%	76.2%
Capital & Coast	64.2%	63.7%	63.3%	63.2%	62.7%	62.9%	69.5%	70.6%	72.5%
Wairarapa	66.9%	67.1%	66.6%	76.9%	75.8%	77.4%	71.9%	69.6%	73.8%
Nelson Marlborough	84.4%	82.6%	76.2%	75.0%	74.0%	65.0%	84.4%	82.2%	79.6%
West Coast	77.5%	76.8%	79.1%	25.8%	25.0%	30.4%	76.2%	75.8%	77.7%
<b>Canterbury</b>	<b>79.5%</b>	<b>79.8%</b>	<b>75.5%</b>	<b>67.0%</b>	<b>68.5%</b>	<b>66.0%</b>	<b>83.8%</b>	<b>82.2%</b>	<b>80.4%</b>
South Canterbury	76.6%	73.3%	75.0%	53.3%	59.1%	56.7%	82.7%	81.7%	80.2%
Southern	62.4%	61.6%	62.3%	63.6%	62.1%	60.3%	76.3%	77.7%	74.8%
<b>Total</b>	<b>64.8%</b>	<b>65.0%</b>	<b>64.6%</b>	<b>74.1%</b>	<b>74.5%</b>	<b>73.7%</b>	<b>72.8%</b>	<b>73.4%</b>	<b>73.3%</b>

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

Key  ≥ 70%  60–69.9%  < 60%