

BSA Northland District Health Board Coverage Report

For the period ending 30 June 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 30 June 2013, 30 June 2014 and 30 June 2015 were extracted from the national Breast Screen Aotearoa database (the Database) on 29 July 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 for the period ended 30 June 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 30 June 2013 and 30 June 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:

- 30 June 2013, the denominator is the population estimate for 30 June 2012
- 30 June 2014, the denominator is the population estimate for 30 June 2013
- 30 June 2015, the denominator is the projected population for 30 June 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.

Northland DHB coverage

Northland coverage by ethnicity in the two years ending 30 June 2015

Figure 1: BSA coverage (%) in the two years ending 30 June 2015 by ethnicity, women aged 50–69 years, Northland District Health Board

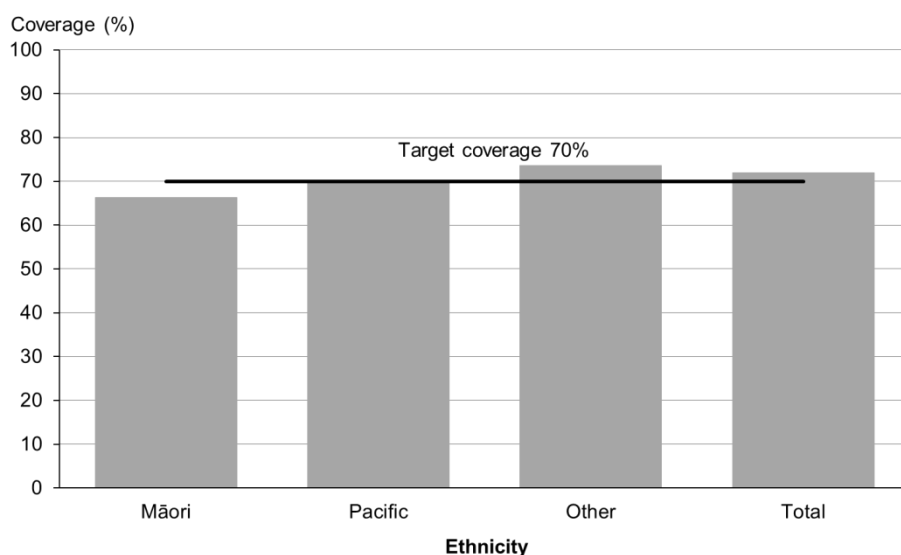


Table 1: BSA coverage (%) in the two years ending 30 June 2015 by ethnicity, women aged 50–69 years, Northland District Health Board*

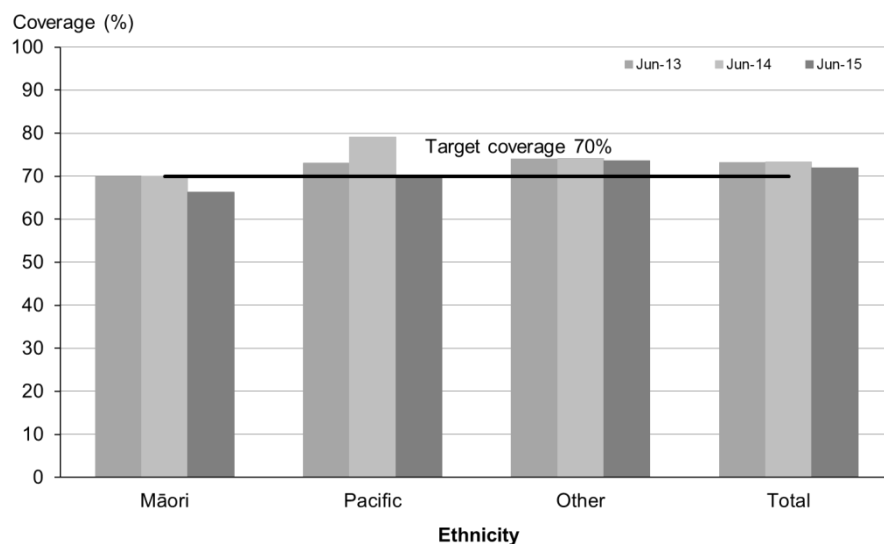
Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	5,400	3,583	66.4%	197
Pacific	240	168	70.0%	
Other	17,790	13,088	73.6%	
Total*	23,430	16,845	71.9%	

*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.

Northland coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2013, 30 June 2014, and 30 June 2015* by ethnicity, Northland District Health Board



* June 2013 and June 2014 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the June 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 2 2014–Quarter 2 2015, Northland District Health Board

Ethnicity	Number of screens by quarter				
	Q2 (Apr-Jun) 2014	Q3 (Jul-Sep) 2014	Q4 (Oct-Dec) 2014	Q1 (Jan-Mar) 2015	Q2 (Apr - Jun) 2015
Māori	520	369	448	478	398
Pacific	19	12	20	24	19
Other	1,523	1,713	1,502	1,595	1,938
Total	2,062	2,094	1,970	2,097	2,355

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 30 June 2015

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 30 June 2015 by District Health Board

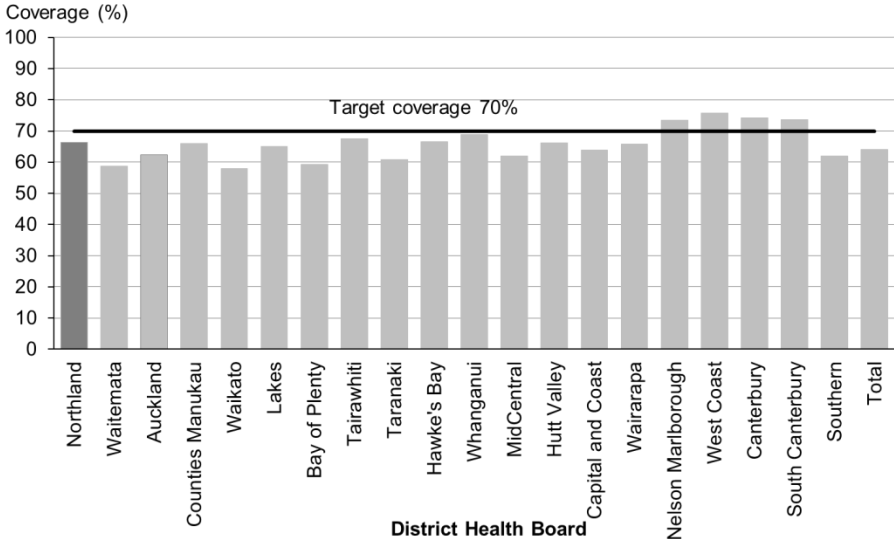


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 June 2015 by District Health Board

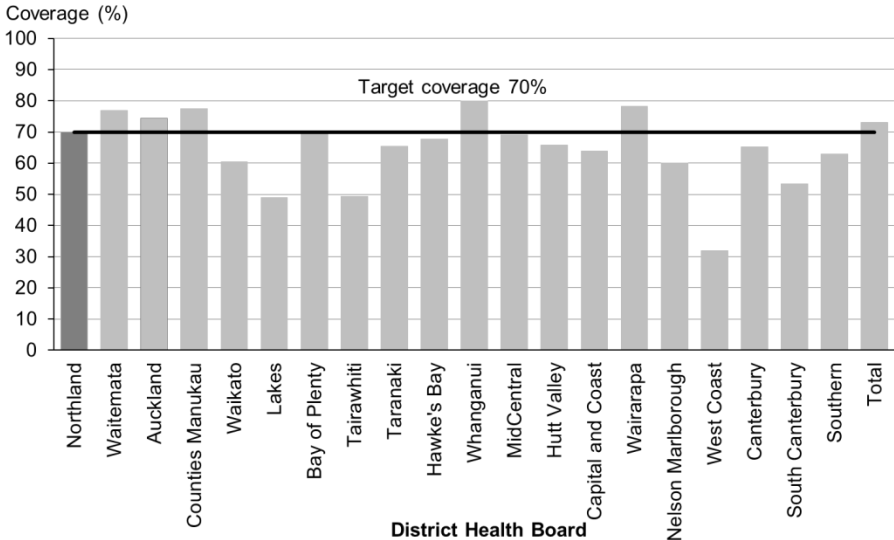


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 June 2015 by District Health Board

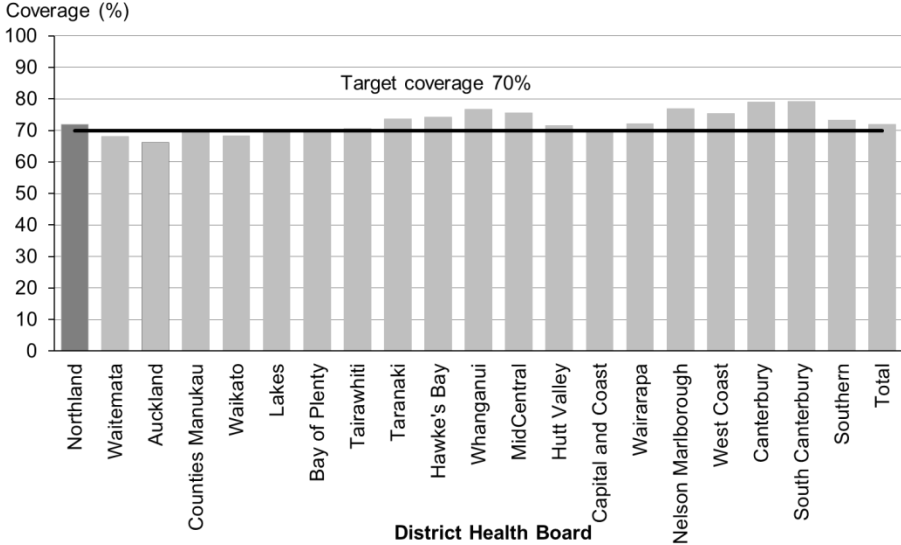


Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 30 June 2015 by District Health Board

DHB name	Eligible population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A*	Total	Māori	Pacific	Other	Total
Northland	5,400	240	17,790	23,430	3,583	168	13,088	6	16,845	66.4%	70.0%	73.6%	71.9%
Waitemata	4,220	3,190	58,440	65,850	2,482	2,453	39,953	11	44,899	58.8%	76.9%	68.4%	68.2%
Auckland	3,290	4,430	41,500	49,220	2,054	3,299	27,189	2	32,544	62.4%	74.5%	65.5%	66.1%
Counties Manukau	5,990	7,930	40,100	54,020	3,953	6,136	27,569	4	37,662	66.0%	77.4%	68.8%	69.7%
Waikato	6,930	720	38,490	46,140	4,012	435	26,992	45	31,484	57.9%	60.4%	70.1%	68.2%
Lakes	3,180	200	9,660	13,040	2,070	98	6,921	13	9,102	65.1%	49.0%	71.6%	69.8%
Bay of Plenty	4,850	210	24,030	29,090	2,877	148	17,291	16	20,332	59.3%	70.5%	72.0%	69.9%
Tairāwhiti	2,170	85	3,465	5,720	1,466	42	2,531		4,039	67.6%	49.4%	73.0%	70.6%
Taranaki	1,580	75	12,950	14,605	961	49	9,740	3	10,753	60.8%	65.3%	75.2%	73.6%
Hawke's Bay	3,400	360	17,640	21,400	2,266	244	13,327	26	15,863	66.6%	67.8%	75.5%	74.1%
Whanganui	1,430	90	6,790	8,310	985	72	5,303	6	6,366	68.9%	80.0%	78.1%	76.6%
MidCentral	2,470	320	18,510	21,300	1,530	221	14,344	11	16,106	61.9%	69.1%	77.5%	75.6%
Hutt Valley	1,870	910	14,380	17,160	1,238	598	10,456	14	12,306	66.2%	65.7%	72.7%	71.7%
Capital & Coast	2,460	1,860	28,710	33,030	1,573	1,190	20,424	39	23,226	63.9%	64.0%	71.1%	70.3%
Wairarapa	610	55	5,525	6,190	401	43	4,017	2	4,463	65.7%	78.2%	72.7%	72.1%
Nelson Marlborough	1,200	120	19,780	21,100	881	72	15,273	7	16,233	73.4%	60.0%	77.2%	76.9%
West Coast	350	25	4,215	4,590	265	8	3,189		3,462	75.7%	32.0%	75.7%	75.4%
Canterbury	2,990	780	59,440	63,210	2,217	509	47,220	31	49,977	74.1%	65.3%	79.4%	79.1%
South Canterbury	360	30	7,890	8,280	265	16	6,267		6,548	73.6%	53.3%	79.4%	79.1%
Southern	2,040	270	36,380	38,690	1,264	170	26,874	33	28,341	62.0%	63.0%	73.9%	73.3%
Unspecified				60									
National	56,790	21,900	465,685	544,435	36,436	15,985	338,643	271	391,335	64.2%	73.0%	72.7%	71.9%

* 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 30 June 2013, 2014 and 2015*, by ethnicity and District Health Board

District Health Board	Māori			Pacific			Other		
	Jun-13	Jun-14	Jun-15	Jun-13	Jun-14	Jun-15	Jun-13	Jun-14	Jun-15
Northland	69.9%	70.0%	66.4%	73.0%	79.0%	70.0%	74.0%	74.2%	73.6%
Waitemata	65.1%	61.7%	58.8%	81.9%	79.2%	76.9%	66.2%	67.6%	68.4%
Auckland	67.3%	65.8%	62.4%	79.4%	79.1%	74.5%	65.9%	67.3%	65.5%
Counties Manukau	69.0%	68.5%	66.0%	79.7%	81.3%	77.4%	68.3%	69.5%	68.8%
Waikato	52.8%	55.5%	57.9%	58.3%	57.8%	60.4%	64.2%	67.8%	70.1%
Lakes	57.7%	62.0%	65.1%	41.1%	52.1%	49.0%	65.9%	69.8%	71.6%
Bay of Plenty	61.0%	58.7%	59.3%	72.6%	67.3%	70.5%	72.9%	70.5%	72.0%
Tairāwhiti	67.7%	67.6%	67.6%	56.7%	62.2%	49.4%	72.8%	74.4%	73.0%
Taranaki	61.4%	62.3%	60.8%	75.4%	75.7%	65.3%	77.1%	77.8%	75.2%
Hawke's Bay	67.8%	66.9%	66.6%	65.6%	65.6%	67.8%	74.6%	75.3%	75.5%
Whanganui	73.4%	69.5%	68.9%	76.5%	75.3%	80.0%	81.1%	79.5%	78.1%
MidCentral	66.0%	64.2%	61.9%	74.2%	72.6%	69.1%	77.8%	76.5%	77.5%
Hutt Valley	62.0%	67.4%	66.2%	62.6%	65.7%	65.7%	68.7%	74.5%	72.7%
Capital & Coast	63.6%	62.4%	63.9%	60.6%	61.1%	64.0%	69.8%	69.9%	71.1%
Wairarapa	67.8%	71.4%	65.7%	77.9%	88.4%	78.2%	72.7%	73.7%	72.7%
Nelson Marlborough	86.4%	83.0%	73.4%	81.1%	76.1%	60.0%	85.0%	83.2%	77.2%
West Coast	79.3%	78.1%	75.7%	30.0%	30.0%	32.0%	78.3%	77.7%	75.7%
Canterbury	78.9%	77.8%	74.1%	69.0%	71.3%	65.3%	83.5%	81.7%	79.4%
South Canterbury	78.6%	78.4%	73.6%	56.0%	50.0%	53.3%	83.8%	81.3%	79.4%
Southern	64.7%	65.9%	62.0%	64.7%	63.2%	63.0%	76.8%	78.8%	73.9%
Total	65.5%	65.4%	64.2%	75.3%	75.8%	73.0%	73.0%	73.6%	72.7%

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

Key ≥ 70% 60–69.9% < 60%