

BSA District Health Board Coverage Report

For the period ending 30 September
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 September 2013, 30 September 2014 and 30 September 2015 were extracted from the national Breast Screen Aotearoa database (the Database) on 10 November 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 periods ending 30 September 2014 and 30 September 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 September 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:

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

New Zealand coverage

New Zealand coverage by ethnicity in the two years ending 30 September 2015

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

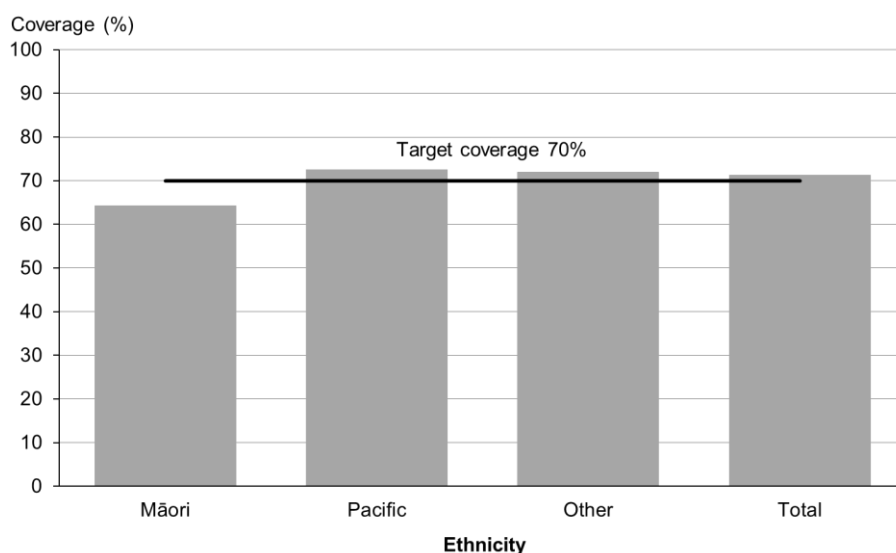


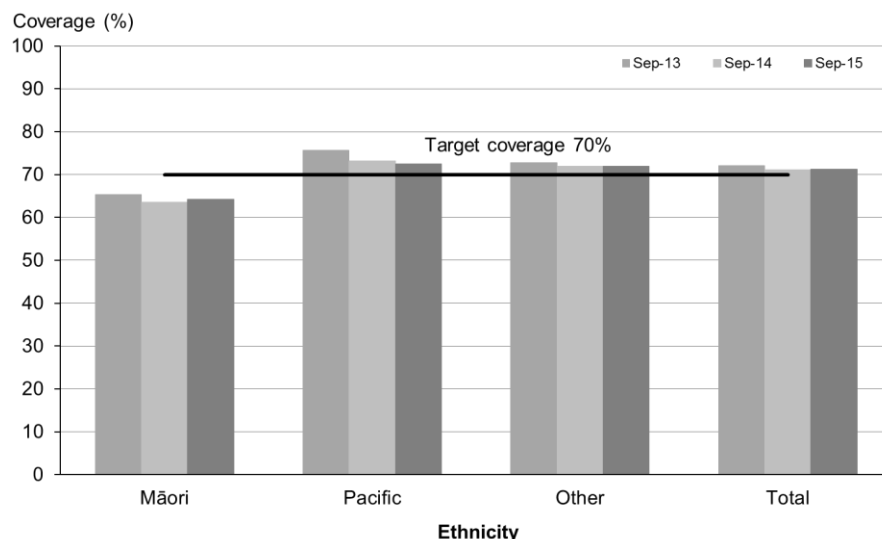
Table 1: BSA coverage (%) in the two years ending 30 September 2015 by ethnicity, women aged 50–69 years, All District Health Boards

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	57,308	36,843	64.3%	3,272
Pacific	22,134	16,052	72.5%	
Other	468,258	337,169	72.0%	
Unspecified		254		
Total*	547,700	390,318	71.3%	

*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 30 September 2013, 30 September 2014, and 30 September 2015* by ethnicity, All District Health Boards



* September 2013 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the September 2014 and September 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 3 2014–Quarter 3 2015, All District Health Boards

Ethnicity	Number of screens by quarter				
	Q3 (Jul-Sep) 2014	Q4 (Oct-Dec) 2014	Q1 (Jan-Mar) 2015	Q2 (Apr - Jun) 2015	Q3 (Jul - Sep) 2015
Māori	4,589	4,502	4,875	5,297	5,241
Pacific	2,343	2,148	1,893	2,189	2,389
Other	47,459	41,567	42,330	47,203	49,617
Total	54,391	48,217	49,098	54,689	57,247

DHB coverage comparisons

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

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

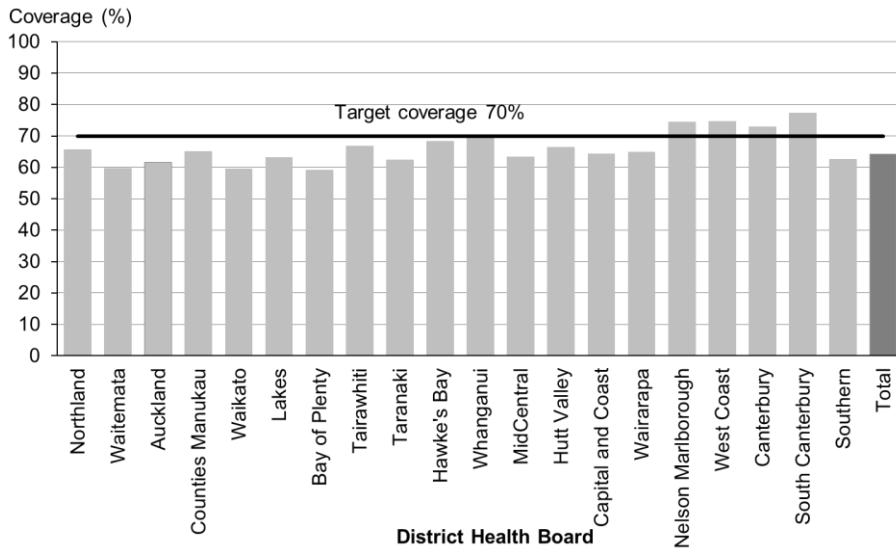


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 30 September 2015 by District Health Board

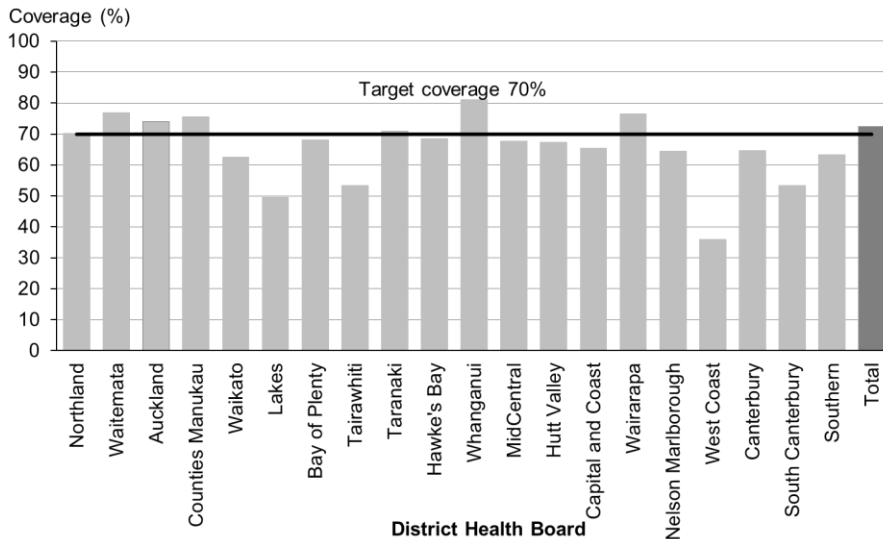


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 30 September 2015 by District Health Board

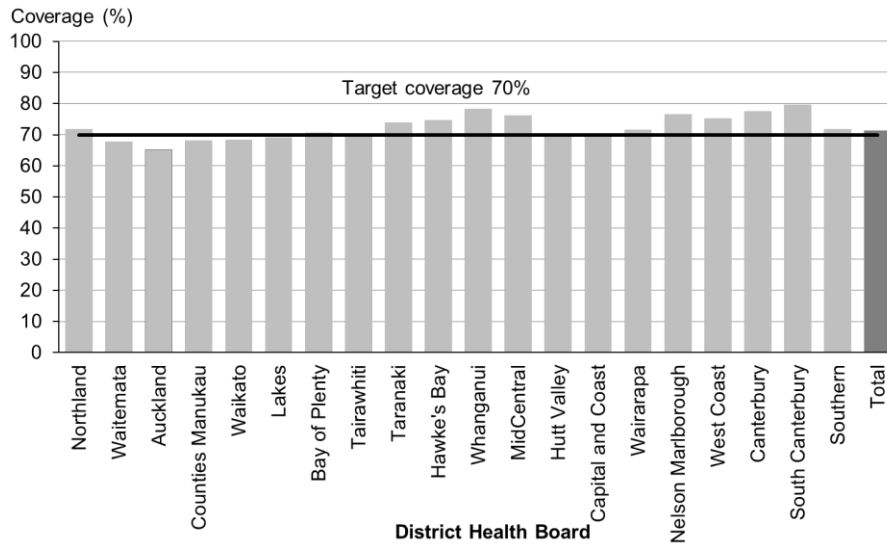


Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 30 September 2015 by District Health Board

DHB name	Eligible population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A*	Total	Māori	Pacific	Other	Total
Northland	5,453	243	17,860	23,553	3,573	170	13,122	8	16,873	65.5%	70.1%	73.5%	71.6%
Waitemata	4,260	3,220	58,885	66,368	2,540	2,473	39,871	15	44,899	59.6%	76.8%	67.7%	67.7%
Auckland	3,318	4,453	41,803	49,560	2,046	3,299	26,981	10	32,336	61.7%	74.1%	64.5%	65.2%
Counties Manukau	6,045	8,033	40,398	54,458	3,933	6,069	27,058	4	37,064	65.1%	75.6%	67.0%	68.1%
Waikato	6,995	730	38,638	46,360	4,157	457	27,002	43	31,659	59.4%	62.6%	69.9%	68.3%
Lakes	3,203	200	9,708	13,118	2,022	99	6,931	10	9,062	63.1%	49.5%	71.4%	69.1%
Bay of Plenty	4,890	220	24,138	29,250	2,891	150	17,574	16	20,631	59.1%	68.2%	72.8%	70.5%
Tairāwhiti	2,183	86	3,481	5,750	1,459	46	2,530	0	4,035	66.8%	53.3%	72.7%	70.2%
Taranaki	1,593	78	13,030	14,700	992	55	9,814	1	10,862	62.3%	71.0%	75.3%	73.9%
Hawke's Bay	3,425	365	17,703	21,488	2,342	250	13,418	11	16,021	68.4%	68.5%	75.8%	74.6%
Whanganui	1,440	93	6,813	8,328	1,009	75	5,427	3	6,514	70.1%	81.1%	79.7%	78.2%
MidCentral	2,488	328	18,580	21,390	1,576	222	14,479	9	16,286	63.4%	67.8%	77.9%	76.1%
Hutt Valley	1,890	920	14,443	17,268	1,256	619	10,247	14	12,136	66.5%	67.3%	71.0%	70.3%
Capital & Coast	2,483	1,868	28,868	33,208	1,597	1,222	20,402	37	23,258	64.3%	65.4%	70.7%	70.0%
Wairarapa	618	58	5,544	6,220	400	44	4,009	2	4,455	64.8%	76.5%	72.3%	71.6%
Nelson Marlborough	1,215	123	19,873	21,210	905	79	15,227	6	16,217	74.5%	64.5%	76.6%	76.5%
West Coast	355	25	4,229	4,610	265	9	3,195	0	3,469	74.6%	36.0%	75.6%	75.2%
Canterbury	3,033	790	59,845	63,660	2,209	510	46,558	29	49,306	72.8%	64.6%	77.8%	77.5%
South Canterbury	358	30	7,919	8,290	276	16	6,305	0	6,597	77.2%	53.3%	79.6%	79.6%
Southern	2,068	275	36,505	38,855	1,294	174	26,344	34	27,846	62.6%	63.3%	72.2%	71.7%
Unspecified	0	0	0	60	101	14	675	2	792				
National	57,308	22,134	468,258	547,700	36,843	16,052	337,169	254	390,318	64.3%	72.5%	72.0%	71.3%

* 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 September 2013, 2014 and 2015*, by ethnicity and District Health Board

District Health Board	Māori			Pacific			Other		
	Sep-13	Sep-14	Sep-15	Sep-13	Sep-14	Sep-15	Sep-13	Sep-14	Sep-15
Northland	69.8%	67.8%	65.5%	76.0%	72.4%	70.1%	74.5%	73.7%	73.5%
Waitemata	62.6%	59.4%	59.6%	81.1%	76.3%	76.8%	65.9%	66.2%	67.7%
Auckland	67.2%	64.6%	61.7%	80.7%	77.5%	74.1%	66.4%	66.2%	64.5%
Counties Manukau	67.1%	66.0%	65.1%	80.0%	79.1%	75.6%	67.1%	67.8%	67.0%
Waikato	54.8%	54.6%	59.4%	56.4%	57.6%	62.6%	64.9%	68.2%	69.9%
Lakes	58.6%	61.8%	63.1%	47.7%	49.5%	49.5%	65.9%	70.0%	71.4%
Bay of Plenty	59.7%	58.1%	59.1%	72.8%	67.6%	68.2%	72.1%	69.4%	72.8%
Tairāwhiti	67.4%	65.7%	66.8%	61.4%	55.6%	53.3%	73.7%	73.7%	72.7%
Taranaki	64.2%	60.7%	62.3%	77.0%	70.2%	71.0%	77.7%	77.0%	75.3%
Hawke's Bay	67.6%	66.0%	68.4%	66.2%	63.3%	68.5%	74.6%	74.0%	75.8%
Whanganui	74.8%	66.9%	70.1%	80.0%	74.2%	81.1%	81.8%	78.0%	79.7%
MidCentral	65.5%	62.8%	63.4%	75.1%	68.9%	67.8%	78.0%	77.7%	77.9%
Hutt Valley	64.5%	64.6%	66.5%	65.0%	63.9%	67.3%	72.7%	72.5%	71.0%
Capital & Coast	63.0%	57.5%	64.3%	59.8%	55.8%	65.4%	69.2%	64.8%	70.7%
Wairarapa	67.8%	66.9%	64.8%	77.9%	80.0%	76.5%	74.3%	72.2%	72.3%
Nelson Marlborough	83.6%	80.4%	74.5%	78.9%	71.1%	64.5%	83.8%	81.8%	76.6%
West Coast	81.3%	75.8%	74.6%	30.0%	37.6%	36.0%	78.5%	78.5%	75.6%
Canterbury	77.7%	74.5%	72.8%	67.6%	66.8%	64.6%	81.6%	79.0%	77.8%
South Canterbury	79.0%	78.2%	77.2%	61.0%	50.0%	53.3%	82.3%	80.6%	79.6%
Southern	64.7%	63.3%	62.6%	64.9%	56.0%	63.3%	76.6%	73.8%	72.2%
NATIONAL	65.4%	63.6%	64.3%	75.7%	73.2%	72.5%	72.7%	71.9%	72.0%

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

Key ■ ≥ 70% ■ 60–69.9% ■ < 60%