



National
Cervical
Screening
Programme

NCSP New Zealand MidCentral District Health Board Coverage Report

For the period ending
31 December 2018

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Introduction

Well-organised cervical cancer screening programmes can significantly reduce the incidence and mortality of the disease. The National Cervical Screening Programme (NCSP) was established in New Zealand in 1990, and since that time, the number of women who develop cervical cancer, and the number of women who die from it, has reduced by 60 percent. Having regular cervical smear tests continues to be a woman's best protection against the development of invasive cervical cancer.

One of the main performance measures of NCSP is coverage. Coverage is defined as the proportion of women eligible for screening who have been screened in the previous three years. Our target is to reach 80 percent screening coverage for all eligible women. While we have met this target nationally for European/ Other women, coverage rates for Maori, and Asian women remain at under 70 percent.

The incidence of cervical cancer among Māori, Pacific and Asian women remains higher than that among European/Other ethnicities. One of the primary reasons for this is lower rates of screening coverage among these groups.

This NCSP District Health Board Coverage Report is intended to support those working in increasing coverage and improving equity in cervical screening. Tihei mauri ora!

Technical notes

The data for the period ending 31 December 2018 was extracted from the Ministry of Health NCSP Datamart on 24 January 2019.

Screened women (the ‘numerator’) are included in the coverage calculations based on their age at the end of the monitoring period. This means that coverage for women aged 25-69 years includes women who were aged 22, 23 or 24 at the start of the monitoring period. Since February 2016 the ethnicity and domicile of a screened woman is that recorded on the Ministry of Health’s National Health Index (NHI). Prior to this date, demographic information was obtained from the NCSP Register. The impact of this change can be found in the comparison document re: December 2015 coverage: <https://www.nsu.govt.nz/health-professionals/national-cervical-screening-programme/cervical-screening-coverage>

Any time series data produced from February 2016 will use demographic information from the NHI across all time periods.

For both women screened and in the denominator, women have been prioritised to a single ethnicity using the following priority order: Māori, Pacific, Asian, European/Other. This means that if a woman chooses more than one category, and one of these is Māori, she is counted as Māori. The ethnicity recorded on the Ministry of Health’s National Health Index has been used for any screened woman with no ethnicity recorded on the Register.

The denominators used for calculating coverage are derived from Statistics New Zealand’s District Health Board (DHB) population projections 30 June 2017 update based on the 2013 Census. The population update may result in changes to historic denominators (from the last census year to the date of this report), this means that the denominators in this report may differ from those published in previous years. The population projections have been adjusted for the prevalence of hysterectomy.

Additional detail on the methodology can be obtained via a request made to screening@moh.govt.nz.

MidCentral coverage

MidCentral coverage by ethnicity in the three years ending 31 December 2018

Figure 1: NCSP coverage (%) in the three years ending 31 December 2018 by ethnicity, women aged 25–69 years, Total Coverage

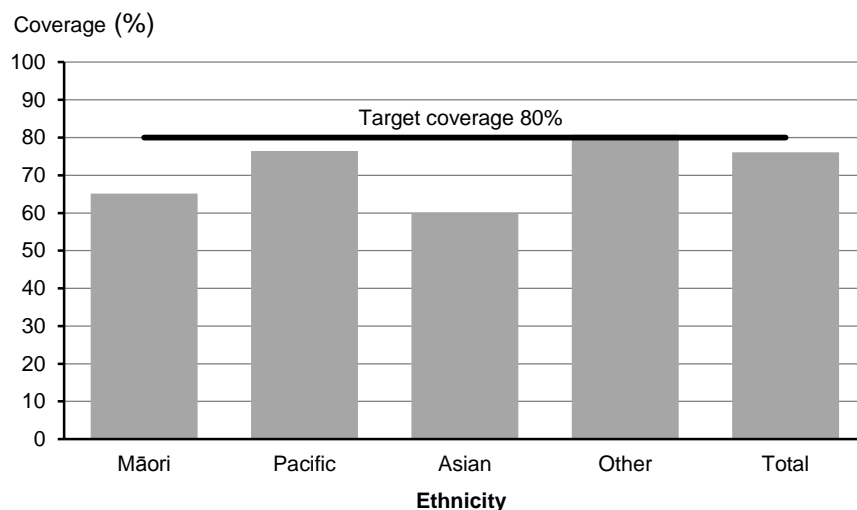


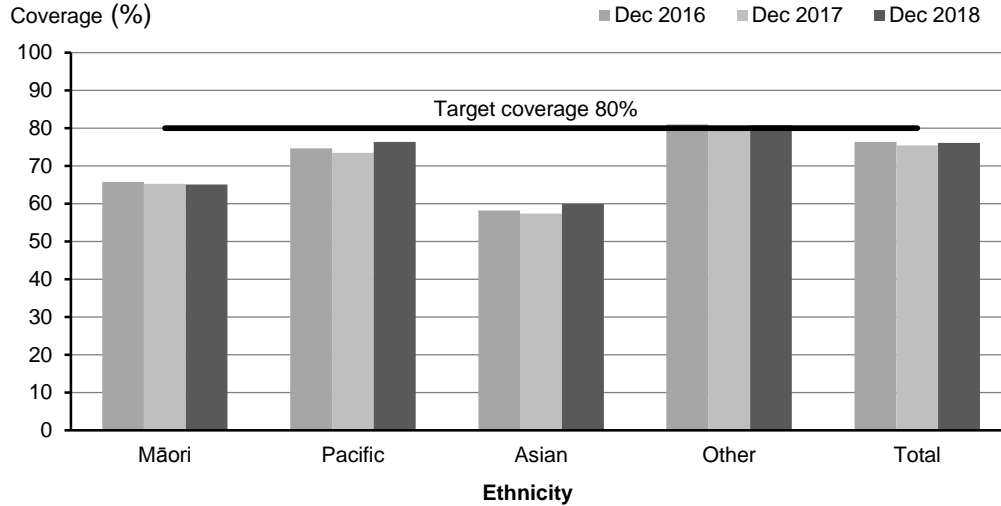
Table 1: NCSP coverage (%) in the three years ending 31 December 2018 by ethnicity, women aged 25–69 years, Total Coverage

Ethnicity	Population	Women screened in last 3 years	3-year coverage	Additional screens to reach target*
Māori	7,574	4,931	65.10%	1,128
Pacific	1,045	798	76.40%	38
Asian	4,042	2,423	59.90%	810
Other	31,102	25,145	80.80%	
Total	43,763	33,297	76.10%	1,713

*For the total population the number of additional screens is the number required to move from the total population coverage to 80%. This may not be the same as the sum of additional screens required for each ethnic group to reach 80%.

MidCentral coverage trends by ethnicity

Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by ethnicity, Total Coverage



DHB coverage comparisons

DHB coverage by ethnicity in the three years ending 31 December 2018

Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

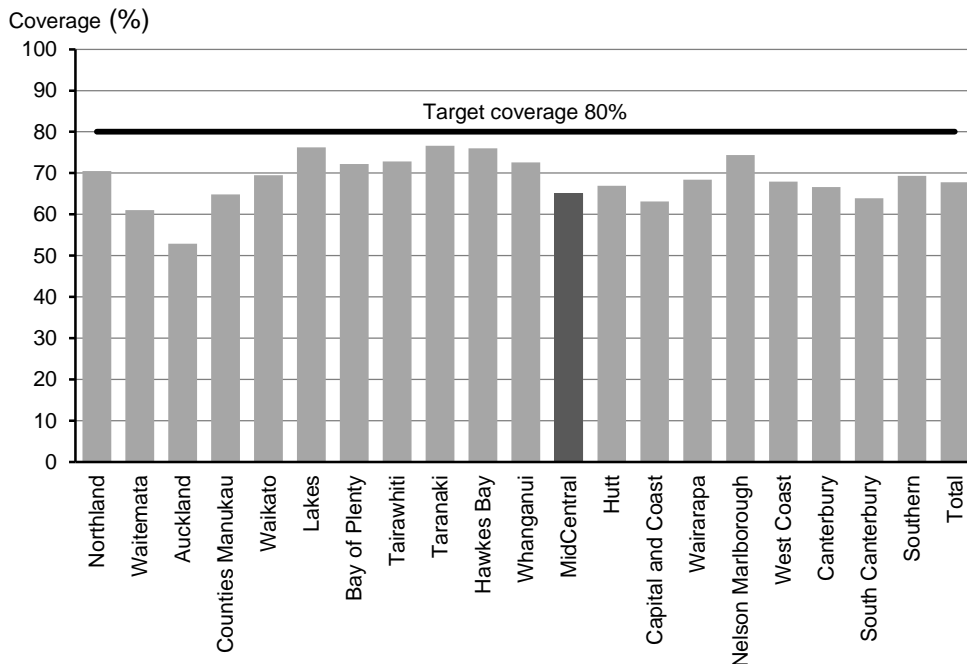


Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

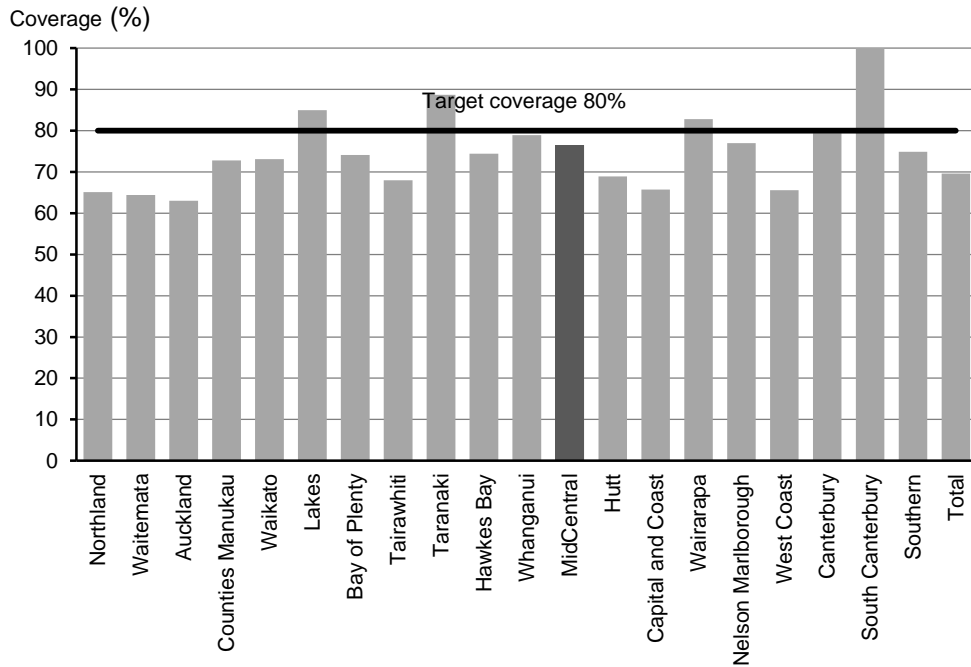


Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

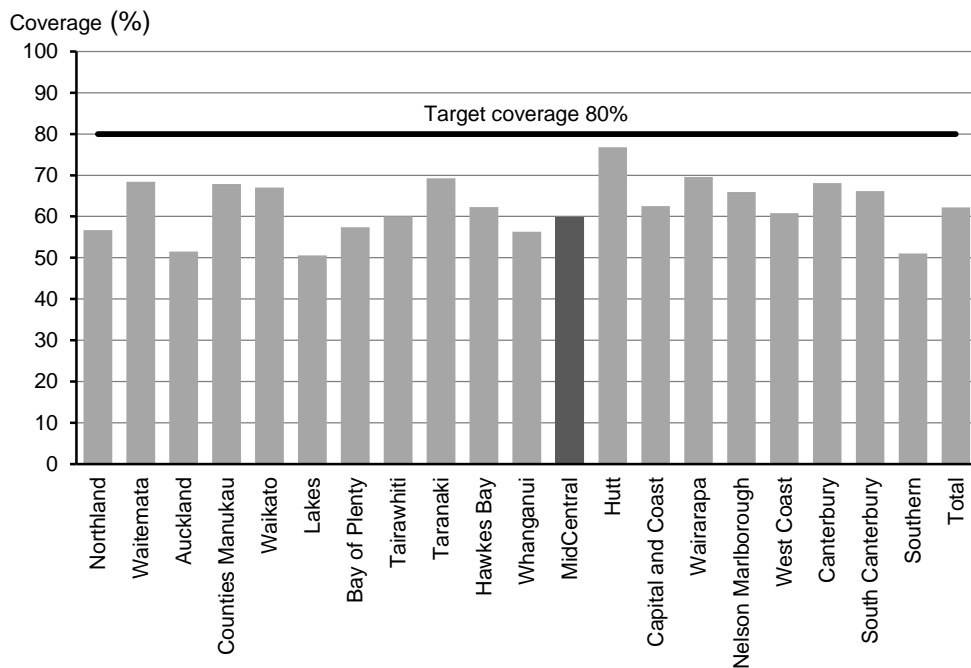


Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

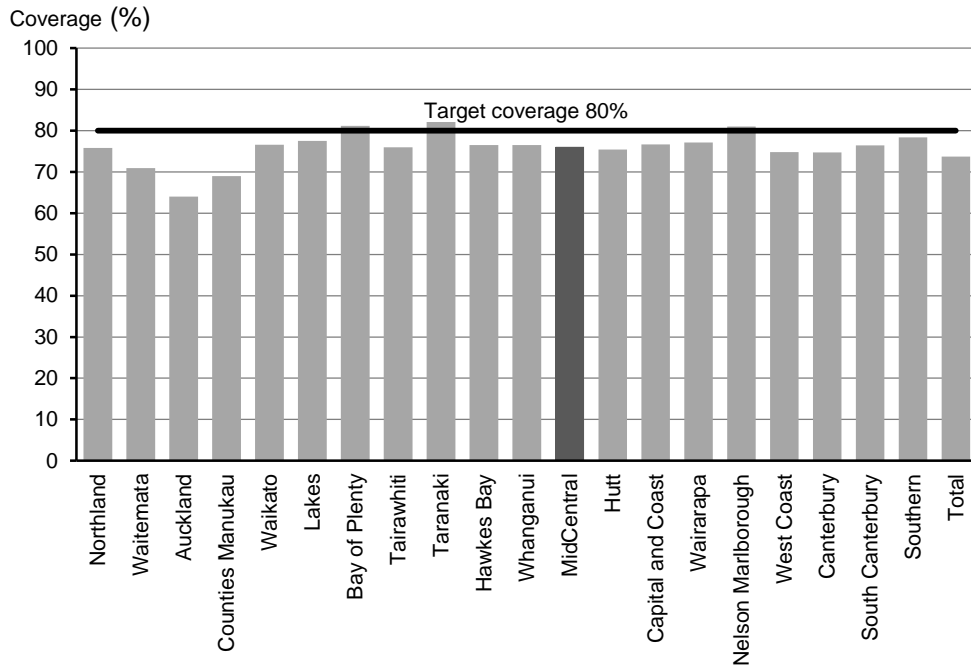


Figure 7: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2018

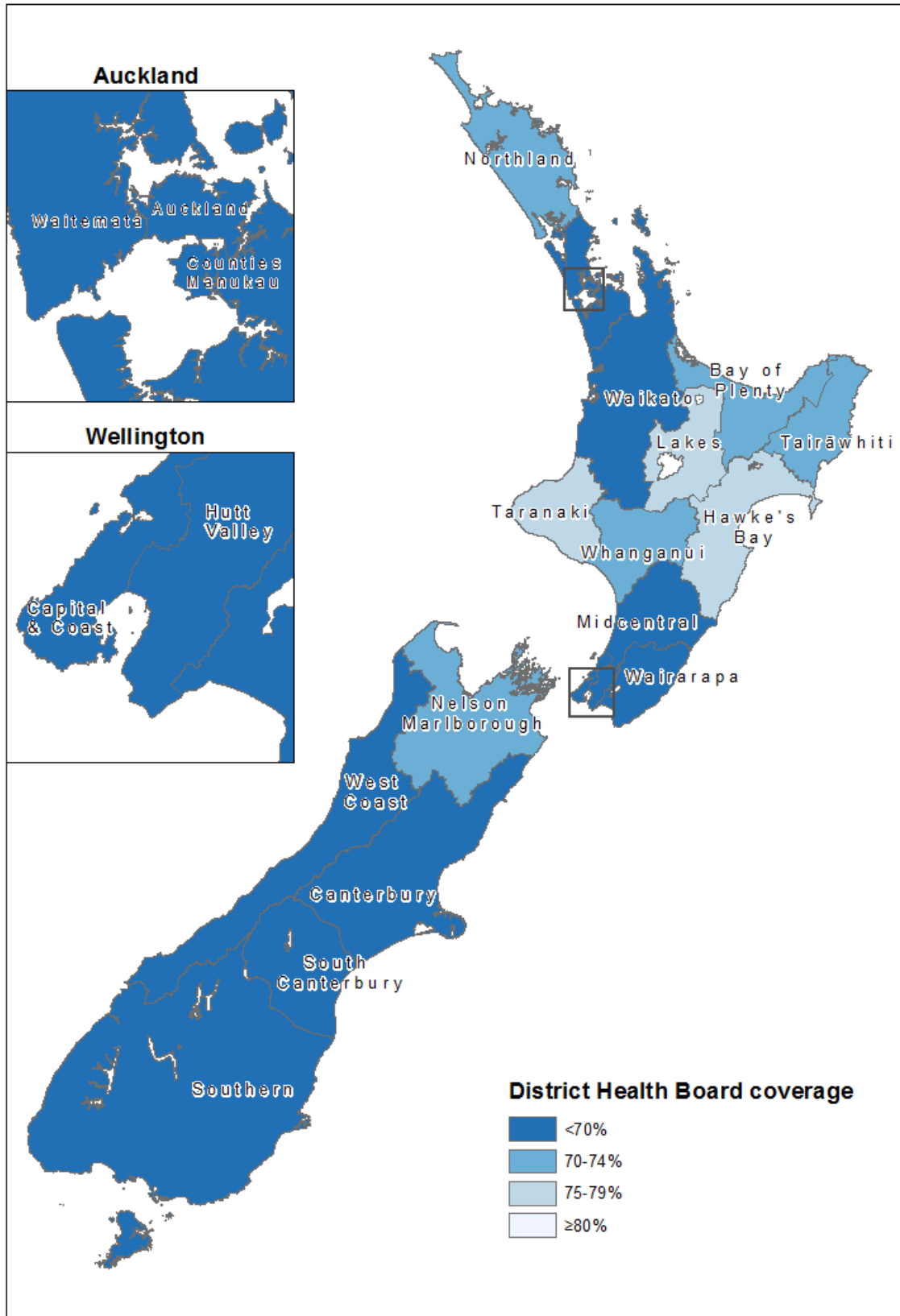


Figure 8: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2018

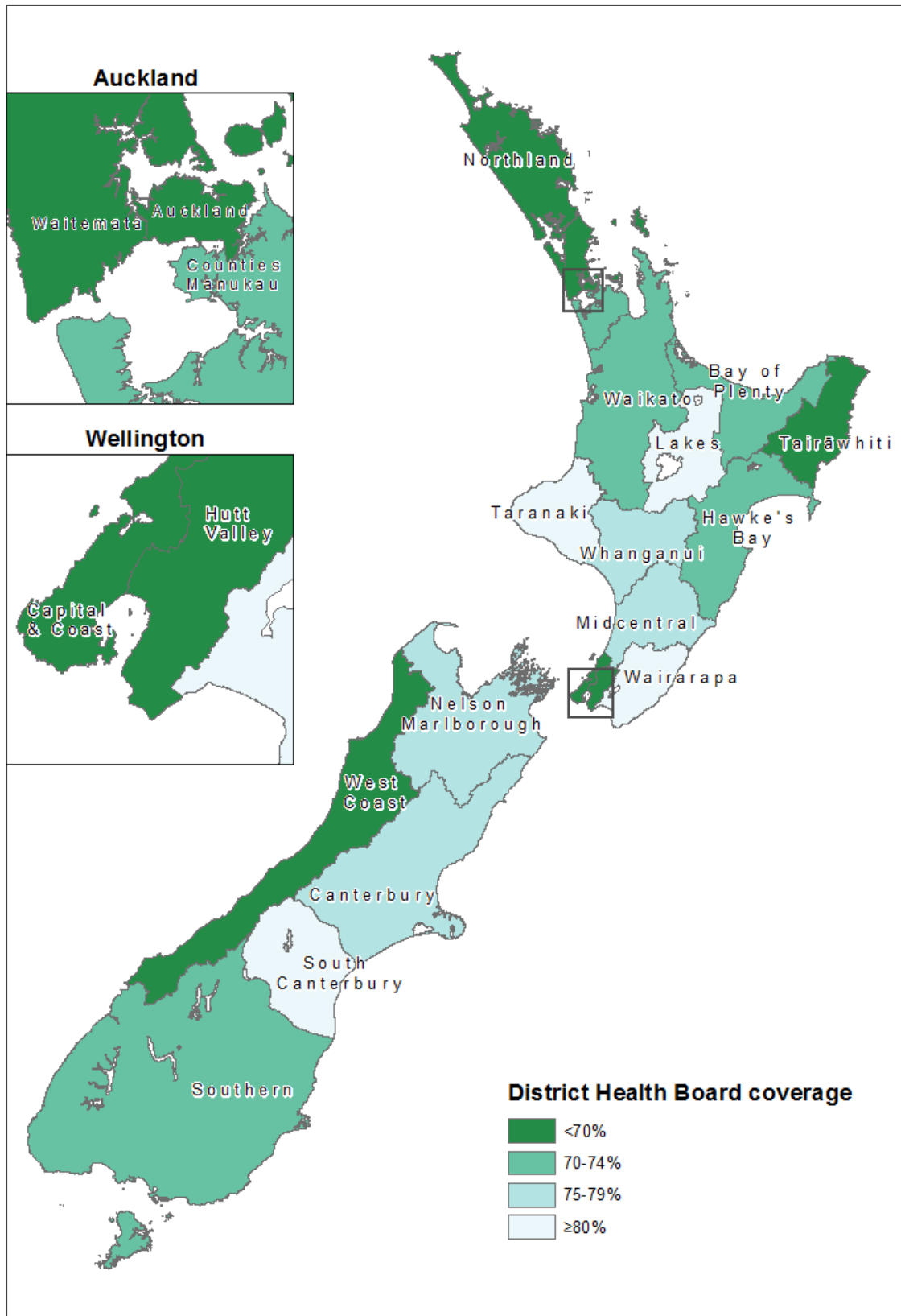


Figure 9: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

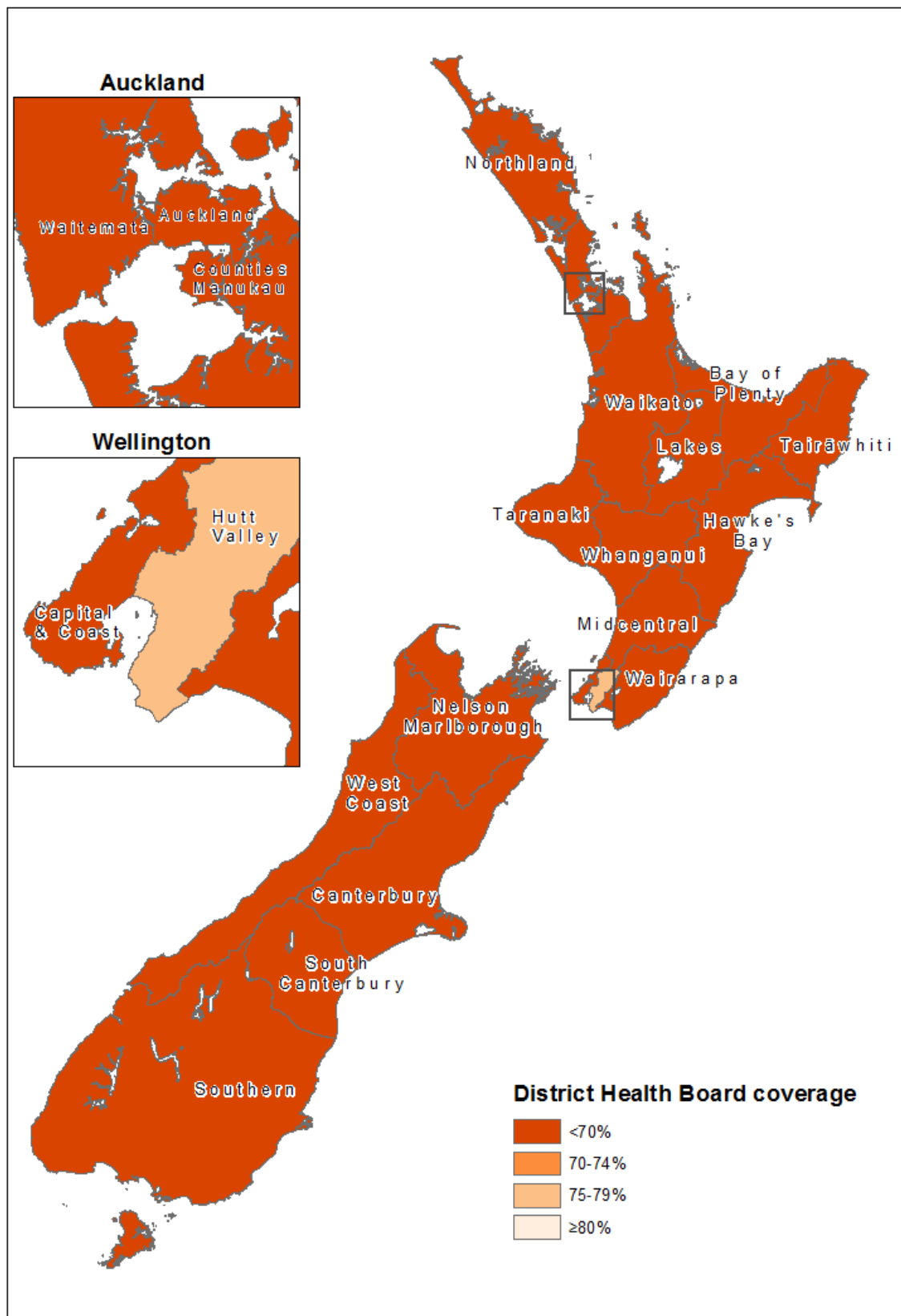


Figure 10: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

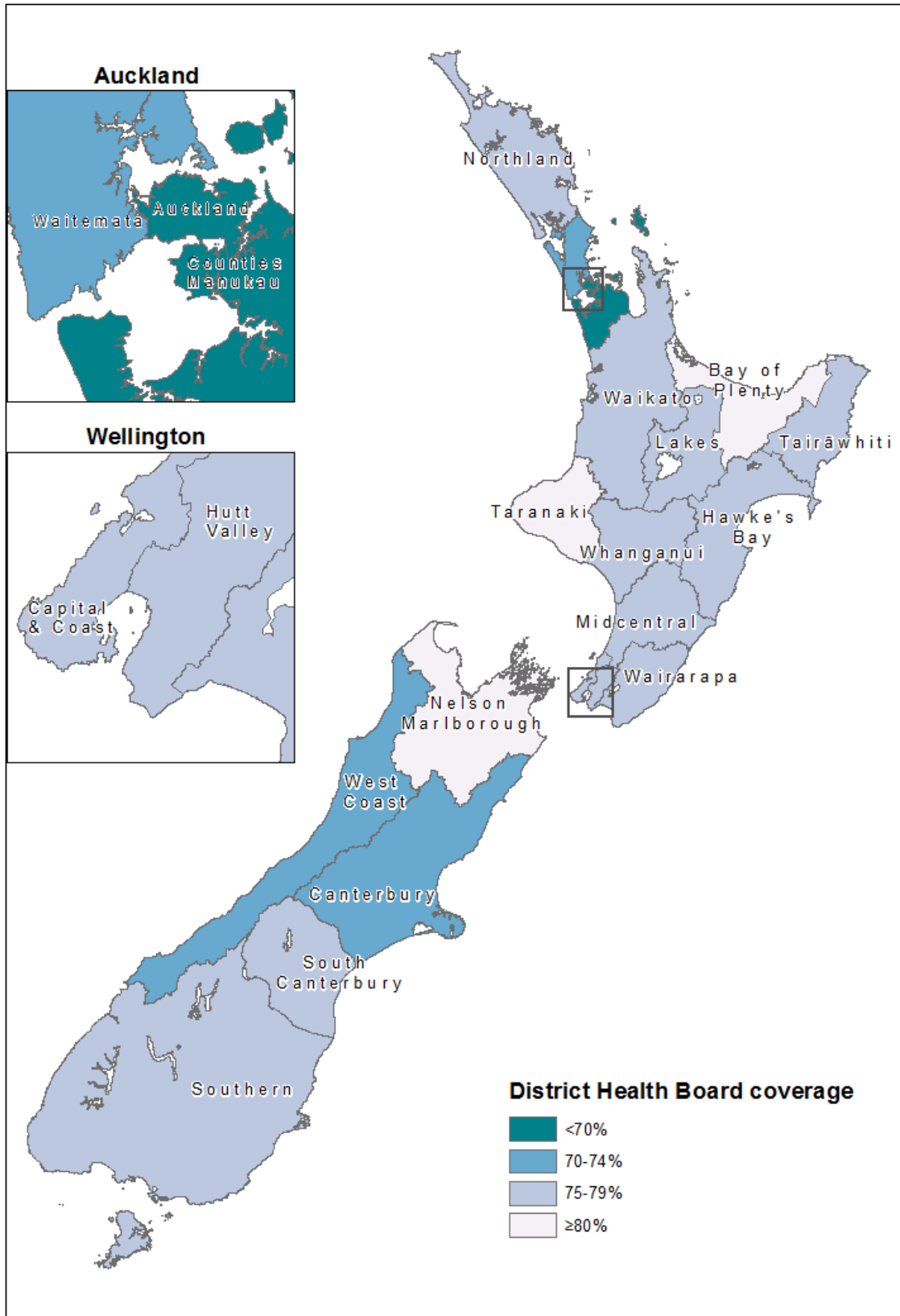


Table 2: NCSP number of screens and coverage (%) in women aged 25–69 years in the three years ending 31 December 2018 by District Health Board

DHB	Eligible Population					Screens					Coverage				
	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Total
Northland	13,342	812	2,366	27,346	43,866	9,405	529	1,342	21,953	33,229	70.5%	65.1%	56.7%	80.3%	75.8%
Waitemata	13,629	10,476	42,734	103,011	169,850	8,308	6,745	29,251	76,119	120,423	61.0%	64.4%	68.4%	73.9%	70.9%
Auckland	10,867	14,098	56,527	74,466	155,958	5,753	8,880	29,089	56,151	99,873	52.9%	63.0%	51.5%	75.4%	64.0%
Counties Manukau	19,948	27,944	42,597	57,121	147,610	12,925	20,337	28,920	39,706	101,888	64.8%	72.8%	67.9%	69.5%	69.0%
Waikato	20,705	2,821	11,776	68,871	104,173	14,385	2,061	7,887	55,450	79,783	69.5%	73.1%	67.0%	80.5%	76.6%
Lakes	8,661	555	2,871	15,748	27,835	6,604	472	1,452	13,050	21,578	76.2%	85.0%	50.6%	82.9%	77.5%
Bay of Plenty	13,075	887	5,108	40,621	59,691	9,446	657	2,931	35,428	48,462	72.2%	74.1%	57.4%	87.2%	81.2%
Tairāwhiti	5,701	256	400	5,714	12,071	4,148	174	240	4,616	9,178	72.8%	68.0%	60.0%	80.8%	76.0%
Taranaki	4,724	301	1,557	23,521	30,103	3,618	267	1,079	19,739	24,703	76.6%	88.7%	69.3%	83.9%	82.1%
Hawke's Bay	9,311	1,178	2,389	28,186	41,064	7,075	877	1,489	21,957	31,398	76.0%	74.4%	62.3%	77.9%	76.5%
Whanganui	3,788	324	792	10,719	15,623	2,755	252	446	8,482	11,935	72.7%	77.8%	56.3%	79.1%	76.4%
MidCentral	7,574	1,045	4,042	31,102	43,763	4,931	798	2,423	25,145	33,297	65.1%	76.4%	59.9%	80.8%	76.1%
Hutt Valley	5,769	2,716	5,156	25,666	39,307	3,859	1,872	3,960	19,935	29,626	66.9%	68.9%	76.8%	77.7%	75.4%
Capital and Coast	8,679	5,403	14,178	56,668	84,928	5,473	3,548	8,859	47,222	65,102	63.1%	65.7%	62.5%	83.3%	76.7%
Wairarapa	1,667	169	395	8,982	11,213	1,141	140	275	7,093	8,649	68.4%	82.8%	69.6%	79.0%	77.1%
Nelson Marlborough	3,375	491	2,132	32,423	38,421	2,510	378	1,405	26,847	31,140	74.4%	77.0%	65.9%	82.8%	81.0%
West Coast	893	93	347	6,980	8,313	606	61	211	5,338	6,216	67.9%	65.6%	60.8%	76.5%	74.8%
Canterbury	10,570	2,911	16,558	113,129	143,168	7,036	2,312	11,270	86,326	106,944	66.6%	79.4%	68.1%	76.3%	74.7%
South Canterbury	1,063	121	678	13,018	14,880	679	124	449	10,121	11,373	63.9%	102.5%	66.2%	77.7%	76.4%
Southern	6,847	1,330	6,662	66,877	81,716	4,743	996	3,399	54,925	64,063	69.3%	74.9%	51.0%	82.1%	78.4%
National	170,188	73,931	219,265	810,169	1,273,553	115,400	51,480	136,377	635,603	938,860	67.8%	69.6%	62.2%	78.5%	73.7%

DHB coverage comparison trends by ethnicity

Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December, 2016, 2017, 2018, by ethnicity and District Health Board

DHB	Māori			Pacific			Asian			Other		
	Dec-16	Dec-17	Dec-18	Dec-16	Dec-17	Dec-18	Dec-16	Dec-17	Dec-18	Dec-16	Dec-17	Dec-18
Northland	73.3%	70.8%	70.5%	70.6%	67.4%	65.1%	57.3%	55.8%	56.7%	83.7%	80.9%	80.3%
Waitemata	63.1%	62.1%	61.0%	72.3%	69.5%	64.4%	70.7%	69.8%	68.4%	76.5%	75.1%	73.9%
Auckland	56.0%	54.4%	52.9%	68.1%	66.1%	63.0%	54.1%	52.1%	51.5%	75.1%	75.1%	75.4%
Counties Manukau	68.0%	66.4%	64.8%	81.8%	78.3%	72.8%	69.6%	68.9%	67.9%	71.9%	70.7%	69.5%
Waikato	70.4%	70.2%	69.5%	78.9%	74.5%	73.1%	63.8%	64.7%	67.0%	81.3%	80.6%	80.5%
Lakes	72.8%	73.7%	76.2%	77.4%	79.4%	85.0%	49.4%	48.5%	50.6%	82.5%	81.9%	82.9%
Bay of Plenty	72.6%	71.9%	72.2%	73.9%	74.5%	74.1%	57.6%	56.2%	57.4%	89.1%	87.8%	87.2%
Tairāwhiti	71.8%	72.2%	72.8%	66.3%	70.0%	68.0%	57.0%	58.8%	60.0%	81.7%	81.7%	80.8%
Taranaki	76.5%	76.3%	76.6%	79.9%	86.1%	88.7%	68.6%	68.7%	69.3%	84.9%	84.5%	83.9%
Hawke's Bay	76.9%	76.7%	76.0%	73.1%	74.5%	74.4%	62.7%	62.8%	62.3%	80.3%	79.1%	77.9%
Whanganui	73.1%	71.1%	72.7%	72.3%	74.1%	77.8%	58.8%	55.3%	56.3%	82.2%	79.8%	79.1%
MidCentral	65.8%	65.3%	65.1%	74.7%	73.5%	76.4%	58.2%	57.4%	59.9%	81.0%	80.1%	80.8%
Hutt Valley	67.8%	65.7%	66.9%	71.2%	67.1%	68.9%	78.1%	77.7%	76.8%	78.8%	77.5%	77.7%
Capital and Coast	64.1%	62.5%	63.1%	64.3%	63.6%	65.7%	62.4%	61.6%	62.5%	81.1%	81.8%	83.3%
Wairarapa	73.9%	72.9%	68.4%	91.0%	87.0%	82.8%	71.5%	69.8%	69.6%	82.3%	80.1%	79.0%
Nelson Marlborough	74.7%	74.3%	74.4%	71.4%	73.6%	77.0%	63.7%	65.1%	65.9%	85.1%	83.6%	82.8%
West Coast	70.0%	69.3%	67.9%	50.0%	59.3%	65.6%	53.7%	56.7%	60.8%	77.5%	78.3%	76.5%
Canterbury	67.5%	65.7%	66.6%	76.4%	77.6%	79.4%	62.3%	64.4%	68.1%	77.2%	76.3%	76.3%
South Canterbury	66.3%	65.3%	63.9%	114.9%	100.8%	102.5%	61.7%	66.1%	66.2%	80.2%	79.5%	77.7%
Southern	69.6%	69.3%	69.3%	74.7%	76.2%	74.9%	50.0%	50.0%	51.0%	81.6%	81.1%	82.1%
Total	69.1%	68.1%	67.8%	75.1%	72.7%	69.6%	63.1%	62.3%	62.2%	79.5%	78.6%	78.5%