

DISTRICTS EMPLOYED WORKFORCE QUARTERLY REPORT

1 JULY to 30 SEPTEMBER 2022

Health Workforce Information

The Health Workforce Information Programme (HWIP) is a well-established programme within Technical Advisory Services (TAS) and supports the Districts formerly known as District Health Boards (Districts) through providing base information on District employee demographics, competencies and describing the current composition of the District workforce. Regular reports are based on a quarterly collection of data from the Districts. District employee data has been collected on a quarterly basis since mid-2006 with a continued focus on improving data quality.

Purpose of the Report

This report covers all District employees for the period 1 July 2022 to 30 September 2022 and is a snapshot in time at 30 September 2022. The report provides information on the general make up and characteristics of the District health and disability workforce to help inform further data analysis and workforce planning. The format of the report is to provide tables and graphs on the demographics of the District workforce aligned to the seven occupational groupings. These groupings are:

- Senior Medical Officer (SMO)
- Resident Medical Officer (RMO)
- Nursing
- Midwifery
- Allied & scientific (the amalgamation of Allied Health and Technical and Scientific)
- Care and support
- Corporate and other

Data Extraction

Important notes about the data extraction:

- The data extract used for this report covers the period July 2022 to September 2022 inclusive and is a snapshot taken by the Districts on 30 September 2022.
- The data quality continues to improve through working closely with the Districts to help manage and improve the data submitted.

Disclaimer

While due care has been applied in the processing, analysing and extraction of data and information to ensure the accuracy of the work, TAS provides no warranty as to the accuracy, authenticity or validity of the data and information and/or that it is supplied free from error. TAS is not liable whatsoever, including for negligence or defamation, for all and any damages or liability in respect of or arising out of use, reliance or otherwise for this work, whether direct or indirect, including the provision of any incorrect, inaccurate or incomplete information.

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Data source: District Workforce Information, held by TAS.

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OVERVIEW

DISTRICT WORKFORCE AT A GLANCE

For data to 30 September 2022, only those employed with contracted hours greater than zero are included in the analysis except for the tables and charts that explicitly report on 'Other' employees on page 5. 'Other' includes those on maternity / parental leave, and those who have not been reported with an employment status code.

Total employees 82,498 in 83,803 positions* 64,323 female 18,131 male 35 Another Gender	70,937 FTE 54,171 FTE** females 16,728 FTE** males 30 FTE** Another Gender	Largest occupation group: Nurses – 31,082 employees in 31,737 positions Smallest occupation group: Midwives – 1,360 employees in 1,434 positions
District employee average age 44.7 years 44.8 years for females 44.5 years for males	Oldest male occupation group: SMO (mean age 51.3 years) Youngest male occupation group: RMO (mean age 31.4 years)	Oldest female occupation groups: Corporate and Other (mean age 49.6 years) Youngest female occupation group: RMO (mean age 31.0 years)
Mean FTE rate 0.86 per employee Mean FTE rate for females 0.84 Mean FTE rate for males 0.92	Longest Length of Service occupation group SMO (mean 10.1 years) Shortest Length of Service occupation group RMO (mean 1.4 years)	Employee reported ethnicities: Other*** – 60.4% Asian – 25.6% Māori – 8.9% Pacific – 5.1%

* The count of employees is a distinct count of individual employees. These employees may hold more than one role, so the Headcount quoted in this report (which is based on total number of positions) will often be larger.

** Contracted FTE (using a 2086-hour annual contract):

N.B. local (District and / or occupation) interpretations of a 'full time equivalent' can vary. For example, a sonographer may be classed as 1.0 full time employee in one District where they are contracted to work 35 hours per week, whereas another sonographer in a different District may be classed as 1.0 full time employee where they are contracted to work 40 hours per week. The Contracted FTE definition used here allows a comparison to be made across Districts and occupations through a universal standard.

*** To allow direct comparisons with reported ethnicity data from Statistics New Zealand, we have amalgamated ethnicities not associated with Asian, Māori or Pacific into the group 'Other'.

DISTRIBUTION OF EMPLOYEES

This chart shows the number of employees (a distinct count of employee numbers) within each District who are classed as either Employees (contracted hours greater than zero) or 'Other' (all others including those on maternity / parental leave, and those who have not been reported with an employment status code). If an individual has already been included in the Employed total but also holds a casual contract, they have not been counted again in the Others column. The chart has been ordered in descending order of District workforce size. The table below the chart gives the actual count of employees.

Figure 1: Count of individual employees

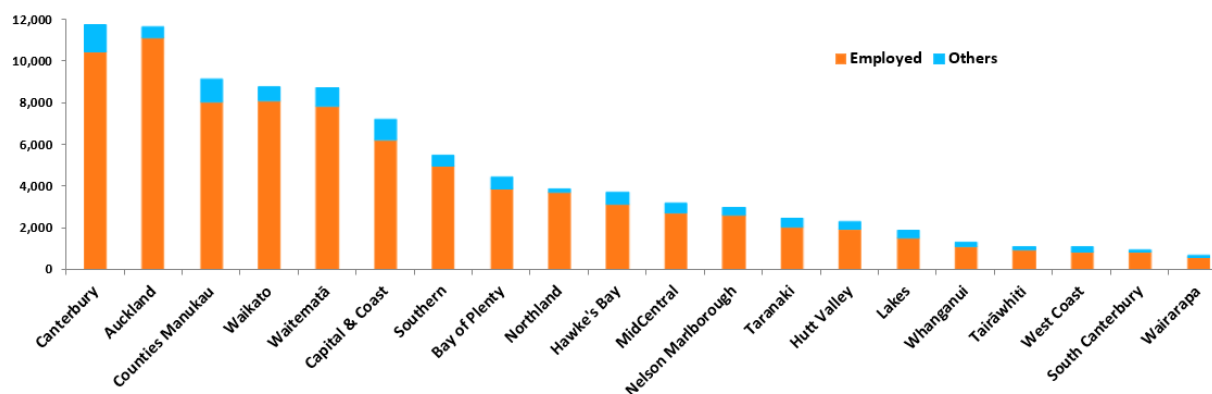


Table 1: Distribution of employment types

District	Employed	Others	Total	Proportion of District workforce
Auckland	11,101	542	11,643	12.6%
Canterbury	10,445	1,308	11,753	12.7%
Counties Manukau	8,030	1,103	9,133	9.9%
Waikato	8,067	714	8,781	9.5%
Waitematā	7,820	891	8,711	9.4%
Capital & Coast	6,224	962	7,186	7.8%
Southern	4,978	491	5,469	5.9%
Bay of Plenty	3,858	579	4,437	4.8%
Northland	3,715	123	3,838	4.1%
Hawke's Bay	3,118	590	3,708	4.0%
MidCentral	2,734	429	3,163	3.4%
Nelson Marlborough	2,606	384	2,990	3.2%
Taranaki	2,056	379	2,435	2.6%
Hutt Valley	1,949	363	2,312	2.5%
Lakes	1,529	319	1,848	2.0%
Whanganui	1,088	195	1,283	1.4%
Tairāwhiti	941	165	1,106	1.2%
West Coast	839	249	1,088	1.2%
South Canterbury	827	126	953	1.0%
Wairarapa	573	94	667	0.7%
Grand Total	82,498	10,006	92,504	100.0%

NOTE: Prior to June 2021, this table was based on a count of positions, which had the potential to count individual employees more than once if they held multiple positions with a District. Individuals may still be counted more than once if they hold positions with multiple Districts.

INCLUSIONS AND EXCLUSIONS

Specific caveats and definitions relevant to charts and tables have been provided throughout the report and should be noted. Additionally, all charts and tables that follow in this document are derived from data using the following caveats:

Inclusions:

- Only employees who have positive contract hours have been included; those with zero contract hours or are classified as on parental leave or leave without pay have been excluded.
- Charts containing 'Age' include all employees who have a calculated age between 15 and 99.

Exclusions:

- Data has been excluded when it does not match the reporting variable standard format (i.e. if a gender code has not been assigned then the employee will be excluded from that chart or table).
- For privacy reasons some data has been suppressed for numbers less than five.
- Any employee who has an employment end date entered (before or during the reporting quarter) has also been excluded since they left employment before the end of the reporting quarter.
- Charts containing 'ethnicity', exclude employees who do not have a valid ethnicity code.

Calculations:

- Percentage sick leave hours is calculated by dividing the number of sick leave hours taken by the contracted hours (excluding those with zero contracted hours). It excludes staff who started or terminated employment in the reporting quarter.
- Annual leave balance to entitlement calculations exclude staff who started or terminated employment in the reporting quarter and those staff who have no reported entitlement to annual leave.
- Because of the way start dates are reported the length of service is most likely to be based on the length of service within the District rather than the length of service of the reported position. When a person is reported under multiple positions for a single occupation group, the greatest length of service value is used for the individual.

EMPLOYEE COUNT AND FTE BY DISTRICT AND OCCUPATION GROUP

The following table shows the distinct count of employees by their occupation grouping and District. It also includes columns for full-time equivalent counts (Contracted FTE, using a 2086 hour annual contract) and mean FTE (the average FTE calculation for all employees). Employees who do not have a contract of more than zero hours are excluded.

Table 2: Employee count and FTE by District and occupation group

District	Nursing			Corporate and other			Allied & scientific			Care and support			SMO			RMO			Midwifery		
	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE
Auckland	3,995	3,506.7	0.88	2,199	2,038.5	0.93	2,083	1,873.1	0.90	873	827.2	0.95	1,148	970.5	0.85	670	670.8	1.00	166	131.8	0.79
Bay of Plenty	1,469	1,148.8	0.78	829	733.5	0.88	573	481.1	0.84	422	353.7	0.84	277	231.2	0.83	224	221.3	0.99	64	43.8	0.68
Canterbury	3,980	3,310.0	0.83	2,276	1,996.4	0.88	1,737	1,441.3	0.83	1,056	859.9	0.81	680	574.2	0.84	596	586.3	0.98	120	79.9	0.67
Capital & Coast	2,430	2,059.8	0.85	1,311	1,219.2	0.93	803	697.3	0.87	546	485.3	0.89	480	396.3	0.83	589	571.6	0.97	91	68.3	0.75
Counties Manukau	2,971	2,594.3	0.87	1,551	1,359.4	0.88	1,167	1,046.0	0.90	1,076	954.1	0.89	607	517.3	0.85	478	464.0	0.97	196	151.2	0.77
Hawke's Bay	1,167	914.8	0.78	707	624.7	0.88	478	407.7	0.85	390	314.7	0.81	180	150.5	0.84	167	164.2	0.98	43	32.4	0.75
Hutt Valley	728	588.4	0.81	425	381.1	0.90	304	251.7	0.83	244	210.9	0.86	161	121.4	0.75	54	52.6	0.97	34	22.4	0.66
Lakes	597	476.6	0.80	355	313.0	0.88	199	171.4	0.86	153	134.1	0.88	108	93.0	0.86	90	90.0	1.00	27	20.1	0.75
MidCentral	1,167	952.0	0.82	551	504.0	0.91	394	340.9	0.87	225	185.4	0.82	168	151.4	0.90	175	172.0	0.98	54	37.0	0.69
Nelson Marlborough	813	626.1	0.77	640	539.5	0.84	359	279.0	0.78	487	364.7	0.75	162	129.4	0.80	108	107.4	0.99	49	35.9	0.73
Northland	1,410	1,090.2	0.77	730	636.5	0.87	536	462.0	0.86	563	394.4	0.70	245	234.8	0.96	152	144.9	0.95	79	46.2	0.58
South Canterbury	356	286.1	0.80	163	138.5	0.85	111	89.1	0.80	92	70.2	0.76	62	53.7	0.87	28	27.9	1.00	18	14.9	0.83
Southern	2,063	1,658.6	0.80	972	876.9	0.90	726	624.6	0.86	464	365.5	0.79	348	303.6	0.87	340	334.0	0.98	65	41.7	0.64
Tairāwhiti	351	279.6	0.80	242	220.1	0.91	123	100.1	0.81	112	96.3	0.86	65	59.0	0.91	33	32.8	0.99	15	10.9	0.73
Taranaki	783	588.7	0.75	484	422.0	0.87	274	218.8	0.80	234	194.4	0.83	154	129.4	0.84	106	105.5	1.00	21	15.4	0.73
Waikato	3,053	2,579.5	0.84	1,762	1,611.0	0.91	1,106	964.7	0.87	1,061	912.2	0.86	487	434.4	0.89	498	489.7	0.98	100	71.1	0.71
Wairarapa	263	194.2	0.74	134	113.9	0.85	59	46.1	0.78	73	49.3	0.67	27	23.4	0.87				20	14.2	0.71
Waitematā	2,752	2,400.7	0.87	1,518	1,329.9	0.88	1,330	1,151.5	0.87	1,111	974.3	0.88	577	492.6	0.85	397	388.6	0.98	161	107.4	0.67
West Coast	284	236.3	0.83	234	197.3	0.84	88	79.3	0.90	160	116.9	0.73	43	33.2	0.77	13	12.8	0.98	17	13.9	0.82
Whanganui	450	358.2	0.80	250	219.6	0.88	132	108.1	0.82	134	109.6	0.82	53	47.5	0.90	49	49.0	1.00	20	14.8	0.74
Grand Total	31,082	25,849.6	0.83	17,333	15,474.9	0.89	12,582	10,834.0	0.86	9,476	7,973.1	0.84	6,032	5,146.9	0.85	4,767	4,685.4	0.98	1,360	973.4	0.72

*Wairarapa and Hutt Valley are moving away from directly employing RMOs and will in future use RMOs that are employed by Capital and Coast.

TABLES AND CHARTS BY OCCUPATION GROUPING

EMPLOYEE COUNT AND FTE BY OCCUPATION GROUPING AND GENDER

The bars represent the distinct count (left hand axis) of employees by gender and occupation grouping, and the triangles represent the average FTE for those employees (right hand axis), also by gender and occupation grouping. As some employees may have roles across multiple Occupation Groups, they may be counted more than once in the group totals, but only once in the Total Staff row in Table 3.

Figure 2: Occupation group distinct employee count and mean FTE by gender



Table 3 : Occupation group employee count and mean FTE by gender

Occupation group	Female		Male		Another Gender		Total	
	Employee Count	Mean FTE	Employee Count	Mean FTE	Employee Count	Mean FTE	Employee Count	Mean FTE
Nursing	27,263	0.82	3,806	0.90	11	1.03	31,082	0.83
Corporate and other	13,454	0.88	3,865	0.95	11	1.08	17,333	0.89
Allied and scientific	10,144	0.84	<2,450	0.94	<10	0.69	12,582	0.86
Care and support	<7,120	0.82	2,363	0.89	<10	1.42	9,476	0.84
SMO	<2,550	0.82	3,495	0.87	<10	N/A	6,032	0.85
RMO	2,573	0.98	2,194	0.99	0	N/A	4,767	0.98
Midwifery	<1,380	0.71	<10	0.91	0	N/A	1,360	0.72
Grand Total	64,323	0.84	18,131	0.92	35	0.85	82,498	0.86

Some values have been expressed as ranges to ensure anonymity of the small number of employees reported as Another Gender.

Values in the Total Staff line are slightly lower than the sum of the Occupation Groups, as some individuals may be represented in more than one Occupation Group.

EMPLOYEE COUNT BY OCCUPATION GROUP AND ETHNICITY

This chart shows the proportion (not the actual count of employees) of ethnicities reported within each occupation group. The table below details the distinct count of employees for whom an ethnicity was reported. As some employees may have roles across multiple Occupation Groups, they may be counted more than once in the group totals, but only once in the Grand Total row in Table 4.

The pie chart, on the next page, shows the distribution of all reported ethnicities for all Districts.

Figure 3: Proportion of ethnicities by occupation group

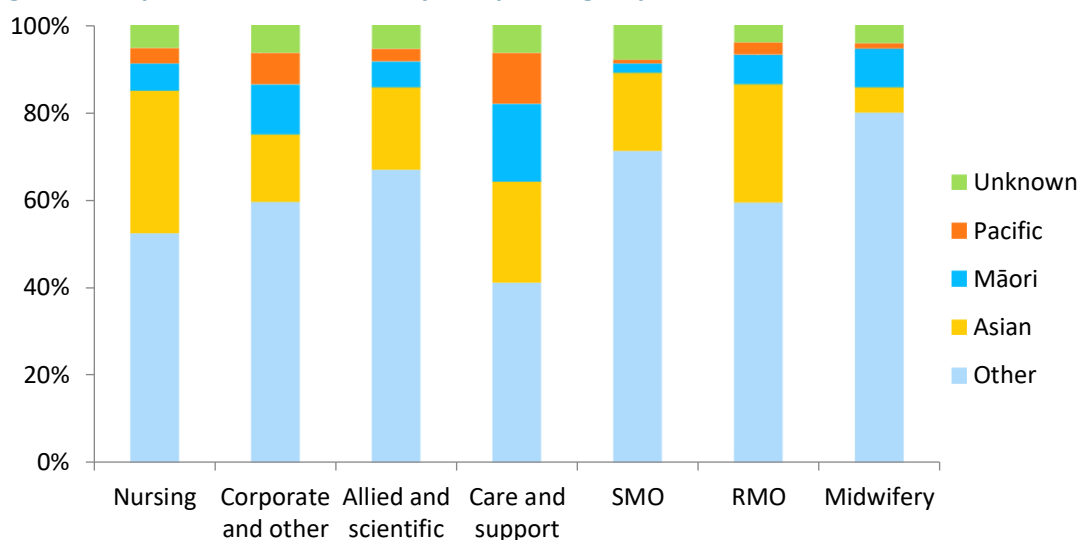


Table 4: Employee Count and proportion of ethnicities by occupation group

Occupation group	Other*		Asian		Māori		Pacific		Unknown		Total
Nursing	16,289	52.4%	10,189	32.8%	1,965	6.3%	1,071	3.4%	1,568	5.0%	31,082
Corporate and other	10,336	59.6%	2,717	15.7%	1,983	11.4%	1,249	7.2%	1,048	6.0%	17,333
Allied and scientific	8,430	67.0%	2,376	18.9%	765	6.1%	361	2.9%	650	5.2%	12,582
Care and support	3,897	41.1%	2,216	23.4%	1,684	17.8%	1,095	11.6%	584	6.2%	9,476
SMO	4,298	71.3%	1,092	18.1%	126	2.1%	55	0.9%	461	7.6%	6,032
RMO	2,833	59.4%	1,303	27.3%	320	6.7%	129	2.7%	182	3.8%	4,767
Midwifery	1,088	80.0%	81	6.0%	120	8.8%	17	1.3%	54	4.0%	1,360
Grand Total	47,086	57.1%	19,949	24.2%	6,952	8.4%	3,970	4.8%	4,541	5.5%	82,498

* 'Other' is a group amalgamation of all ethnicities that do not fall into the groups Asian, Māori or Pacific.

Employee counts in the Grand Total line are slightly lower than the sum of the Occupation Groups, as some individuals may be represented in more than one Occupation Group

This pie chart is based on the 77,957 permanent distinct employees who declared their ethnicity as Asian, Māori, Pacific or Other. Below this is a similar pie chart of ethnicity proportions in the New Zealand population based on projections of population data by Statistics New Zealand for 30 September 2022.

Figure 4: Proportion of identifiable ethnicities for all District employees

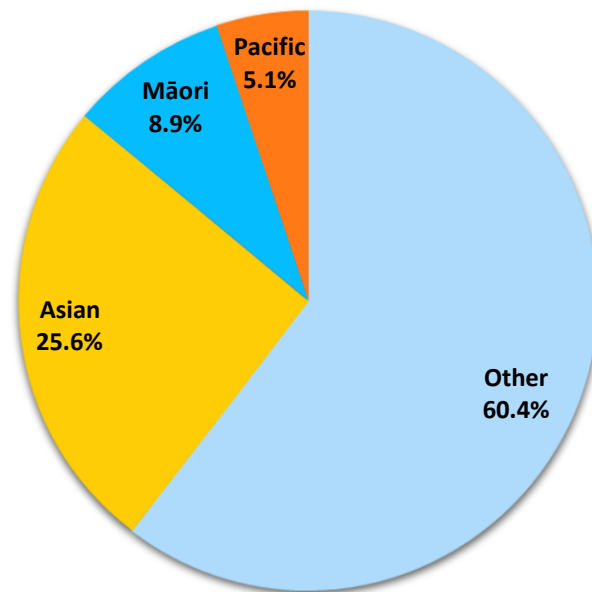
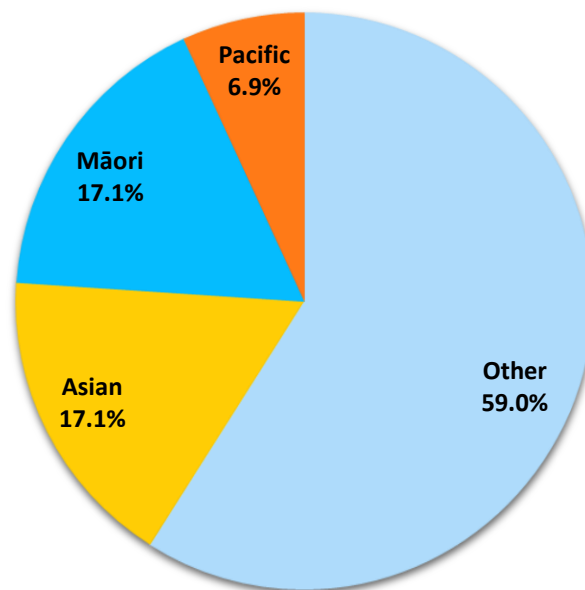


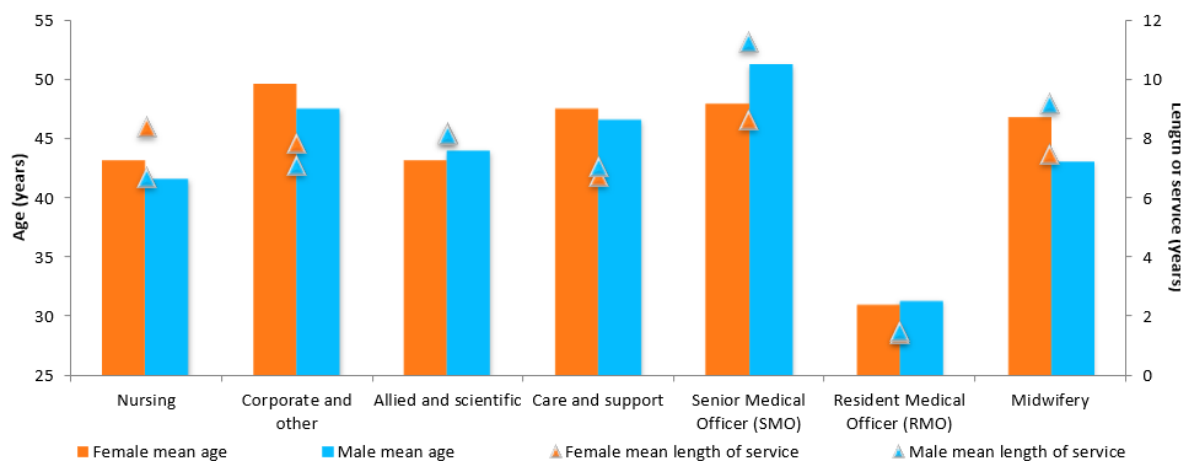
Figure 5: Proportion of identifiable ethnicities for projected population data at 30 Sep 2022



AGES AND LENGTH OF SERVICE

Figure 6: Mean ages and length of service by occupation group and gender

The bars in this chart show the average age (left hand axis) for each occupation group by gender. The triangles represent the average length of service (right hand axis), also by occupation group and gender.



The following table gives the actual figures behind the chart above.

Table 5: Mean ages and length of service by occupation group and gender

Occupation group	Female		Male		Total	
	Mean length of service	Mean age	Mean length of service	Mean age	Mean length of service	Mean age
Nursing	8.4	43.1	6.7	41.6	8.2	43.0
Corporate and other	7.8	49.6	7.1	47.6	7.7	49.1
Allied and scientific	8.2	43.1	8.1	44.0	8.2	43.3
Care and support	6.7	47.6	7.1	46.6	6.8	47.3
SMO	8.6	47.9	11.3	51.3	10.1	49.9
RMO	1.4	31.0	1.5	31.4	1.4	31.2
Midwifery	7.5	46.8	9.2	43.1	7.5	46.8
Grand Total	7.8	44.8	7.3	44.5	7.7	44.7

TABLES AND CHARTS BY DISTRICT

This section looks at the same statistics given in the first section but broken down by District rather than occupation group. Page 7 has a table of figures for FTE and headcount which looks at both District and occupation grouping.

EMPLOYEE COUNT AND MEAN FTE BY GENDER AND DISTRICT

This chart examines the distinct count of employees by gender and District (left hand axis). The Districts have been ordered in descending size of total employee count. The right-hand axis refers to the mean FTE for all positions (by District and gender). The following table shows the employee count and mean FTE by gender for each District. Staff identified as Another Gender have not been included in these charts, due to the overall low numbers of people.

Figure 7: Employee Count and mean FTE by gender and District

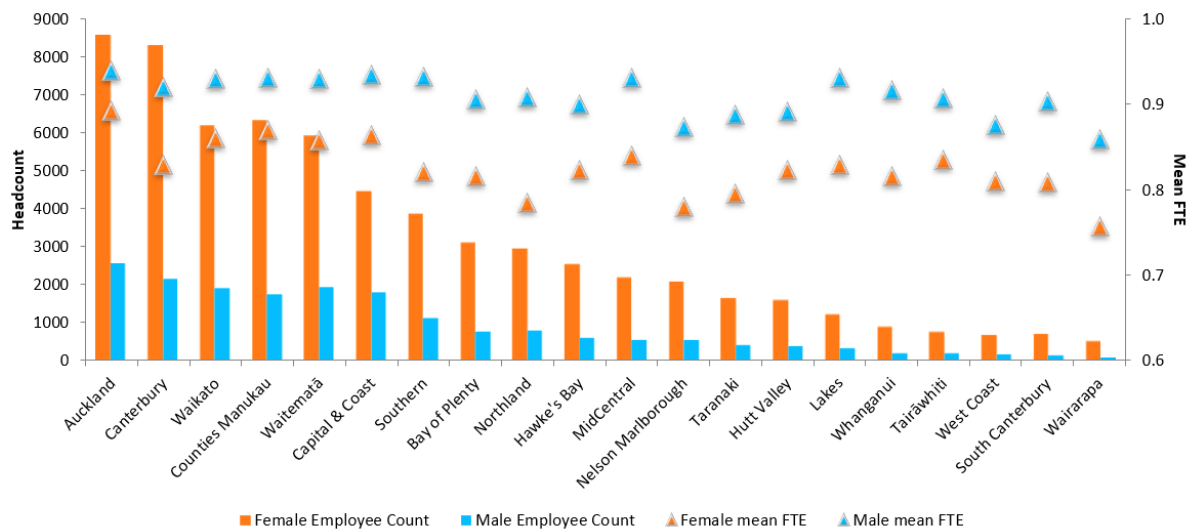


Table 6: Employee Count and mean FTE by gender and District

		Auckland	Canterbury	Waikato	Counties Manukau	Waitematā	Capital & Coast	Southern	Bay of Plenty	Northland	Hawke's Bay	MidCentral	Nelson Marlborough	Taranaki	Hutt Valley	Lakes	Whanganui	Tairāwhiti	West Coast	South Canterbury	Wairarapa
Female	Employees	8,558	8,290	6,172	6,302	5,901	4,452	3,867	3,098	2,938	2,527	2,190	2,064	1,641	1,577	1,220	894	754	683	695	500
	Mean FTE	0.89	0.83	0.86	0.87	0.86	0.86	0.82	0.82	0.78	0.82	0.84	0.78	0.80	0.82	0.83	0.82	0.83	0.81	0.81	0.76
Male	Employees	2,537	2,133	1,895	1,727	1,919	1,768	1,111	760	777	591	541	542	408	372	309	193	187	156	132	73
	Mean FTE	0.94	0.92	0.93	0.93	0.93	0.93	0.93	0.91	0.91	0.90	0.93	0.87	0.89	0.89	0.93	0.92	0.91	0.87	0.90	0.86
Total	Employees	11,101	10,445	8,067	8,030	7,820	6,224	4,978	3,858	3,715	3,118	2,734	2,606	2,056	1,949	1,529	1,088	941	839	827	573
	Mean FTE	0.90	0.85	0.88	0.88	0.88	0.88	0.84	0.83	0.81	0.84	0.86	0.80	0.81	0.84	0.85	0.83	0.85	0.82	0.82	0.77

MEAN AGES AND MEAN LENGTH OF SERVICE BY DISTRICT AND GENDER

This chart shows the mean age of employees in each District by gender (left hand axis) and has been ordered by descending average age. The triangles represent the average length of service (right hand axis) by gender and District. This has been calculated on an employee count basis, using the maximum reported length of service for each individual staff member across all relevant roles.

Figure 8: Mean ages and mean length of service by District and gender

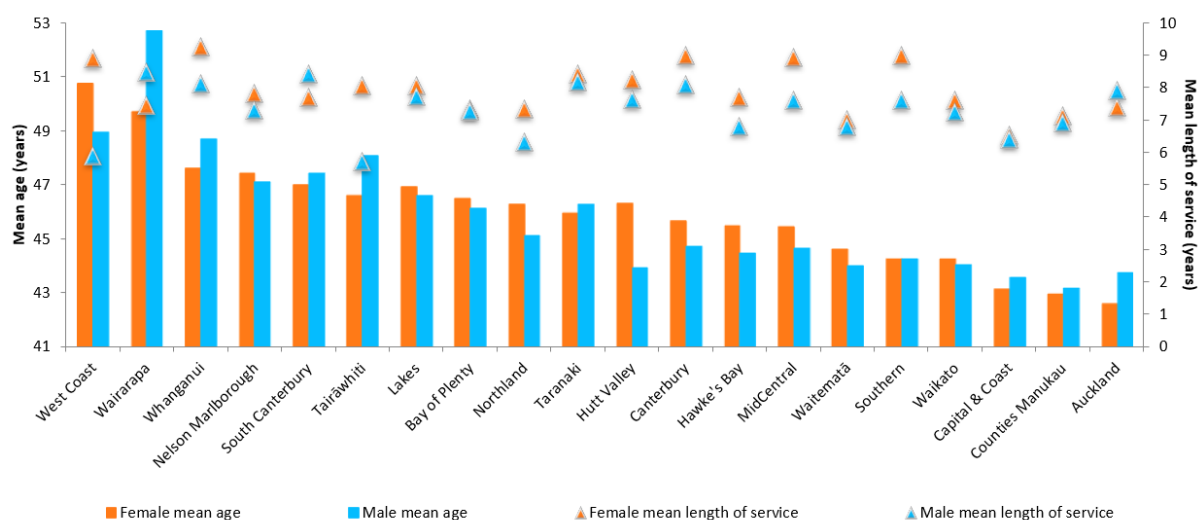


Table 7: Mean ages and mean length of service by District and gender

District	Female mean length of service	Female mean age	Male mean length of service	Male mean age	All staff mean length of service	All staff mean age
Auckland	7.4	42.6	7.9	43.7	7.5	42.8
Bay of Plenty	7.3	46.4	7.3	46.1	7.3	46.4
Canterbury	9.0	45.6	8.1	44.7	8.8	45.5
Capital & Coast	6.5	43.1	6.4	43.6	6.5	43.2
Counties Manukau	7.1	42.9	6.9	43.1	7.1	43.0
Hawke's Bay	7.7	45.5	6.8	44.4	7.5	45.3
Hutt Valley	8.2	46.3	7.6	43.9	8.1	45.8
Lakes	8.0	46.9	7.7	46.6	8.0	46.8
MidCentral	8.9	45.4	7.6	44.6	8.7	45.3
Nelson	7.8	47.4	7.3	47.1	7.7	47.3
Northland	7.3	46.3	6.3	45.1	7.1	46.0
South Canterbury	7.7	47.0	8.4	47.4	7.8	47.0
Southern	9.0	44.2	7.6	44.2	8.7	44.2
Tairāwhiti	8.0	46.6	5.7	48.0	7.6	46.9
Taranaki	8.4	45.9	8.2	46.3	8.3	45.9
Waikato	7.6	44.2	7.2	44.0	7.5	44.2
Wairarapa	7.4	49.7	8.5	52.7	7.6	50.0
Waitematā	7.0	44.6	6.8	44.0	6.9	44.4
West Coast	8.9	50.7	5.9	48.9	8.3	50.4
Whanganui	9.3	47.6	8.1	48.7	9.0	47.8
Grand Total	7.8	44.8	7.3	44.5	7.7	44.7

ETHNICITIES BY DISTRICT

The following chart shows the proportion of ethnicities within each District employee population (ordered by descending proportion of 'unknown' ethnicities). It does not represent the actual number of people by each ethnicity; this is detailed in the table further below.

Figure 9: Proportion of reported ethnicities by District

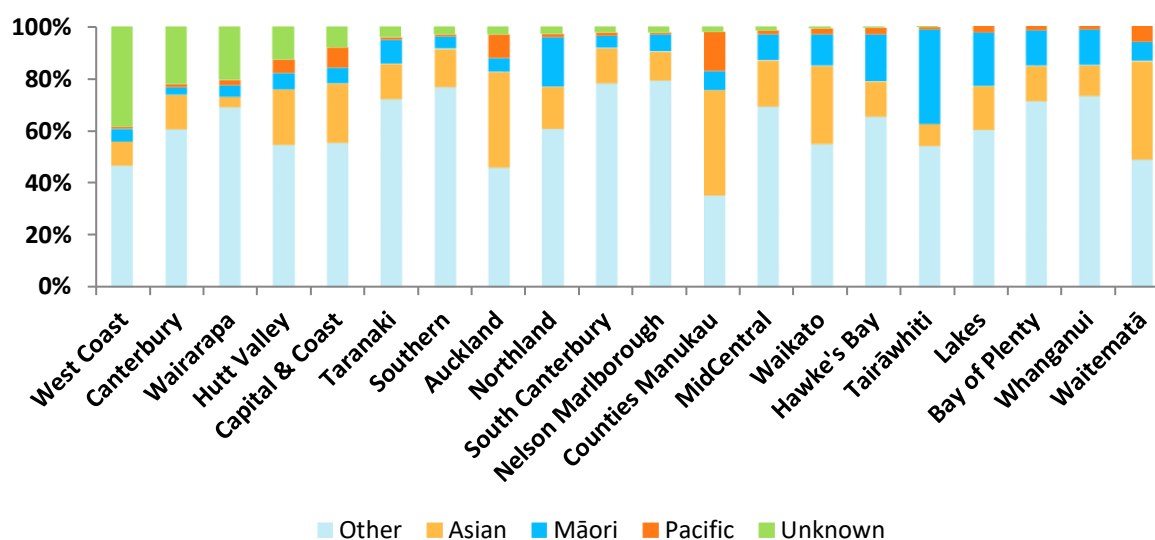


Table 8: Distribution of reported ethnicities by District and Employee Count

District	Other*	Asian	Māori	Pacific	Unknown	Total
West Coast	393	80	40	7	319	839
Canterbury	6,341	1,391	293	124	2,296	10,445
Wairarapa	396	23	25	12	117	573
Hutt Valley	1,067	413	123	100	246	1,949
Capital & Coast	3,460	1,410	381	471	502	6,224
Taranaki	1,483	279	185	21	88	2,056
Southern	3,821	738	218	48	153	4,978
Auckland	5,095	4,098	567	1,005	336	11,101
Northland	2,261	606	693	51	104	3,715
South Canterbury	648	111	38	<15	<25	827
Nelson Marlborough	2,068	287	172	<20	<65	2,606
Counties Manukau	2,831	3,249	585	1,194	171	8,030
MidCentral	1,899	485	264	41	45	2,734
Waikato	4,444	2,416	956	192	59	8,067
Hawke's Bay	2,040	431	548	78	21	3,118
Tairāwhiti	510	83	336	<15	<5	941
Lakes	925	259	307	38	0	1,529
Bay of Plenty	2,757	522	519	60	0	3,858
Whanganui	799	128	146	15	0	1,088
Waitematā	3,848	2,940	556	476	0	7,820
Grand Total	47,086	19,949	6,952	3,970	4,541	82,498

* 'Other' is a group amalgamation of all ethnicities that do not fall into the groups Asian, Māori or Pacific.

** Data suppressed (headcounts less than 5)

*** Data anonymised as range to protect data suppression in other fields.

ANALYSIS BY DISTRICT AND OCCUPATION GROUP

LENGTH OF SERVICE BY OCCUPATION GROUP AND DISTRICT

The following table shows the mean length of service for each occupation group by District. To read this table, look at the occupation column. The green colours represent a longer than national average length of service, the yellow colours are close to the national average while red colours are lower than the national average. The final column (all staff) has ordered the Districts by longer to shorter lengths of service. Length of service is based on reported time employed in the current position, so if an employee is reported with multiple positions, this metric picks up the maximum length of service across their positions.

Table 9: Mean length of service by occupation group and District

District	Nursing	Corporate and other	Allied and scientific	Care and support	SMO	RMO	Midwifery	All staff
Whanganui	10.0	7.8	11.2	8.2	10.1	1.4	10.1	9.0
Canterbury	9.5	7.9	9.4	8.8	11.4	2.4	9.2	8.8
Southern	9.7	8.8	8.6	7.0	10.5	2.5	8.0	8.7
MidCentral	9.5	9.1	9.2	6.1	10.9	1.7	8.1	8.7
Taranaki	9.0	8.9	8.7	7.6	8.0	1.7	9.8	8.3
West Coast	9.7	6.4	8.9	9.9	5.6	1.4	7.2	8.3
Hutt Valley	8.1	8.7	8.2	8.1	9.3	0.9	7.4	8.1
Lakes	9.3	8.4	8.2	5.5	8.4	1.3	7.4	8.0
South Canterbury	8.5	8.1	7.6	6.8	7.8	1.1	6.1	7.8
Nelson Marlborough	8.8	6.9	8.1	7.2	10.3	1.2	7.1	7.7
Tairāwhiti	9.9	6.1	7.9	6.1	6.0	1.0	5.2	7.6
Wairarapa	8.5	6.1	8.8	6.3	8.7	0.0	3.8	7.6
Hawke's Bay	8.0	7.7	8.3	6.2	9.3	1.9	9.2	7.5
Waikato	8.0	7.9	8.2	5.9	10.2	2.1	7.4	7.5
Auckland	7.3	7.5	8.2	7.4	10.8	0.7	7.1	7.5
Bay of Plenty	8.4	7.3	7.1	5.8	8.9	1.4	7.3	7.3
Northland	7.7	8.3	7.5	4.7	8.1	1.5	6.9	7.1
Counties Manukau	7.0	7.9	7.2	6.4	10.8	0.7	7.2	7.1
Waitematā	6.9	6.8	8.0	6.6	10.2	0.7	6.4	6.9
Capital & Coast	6.9	6.4	6.7	6.5	10.1	1.1	8.4	6.5
Grand Total	8.2	7.7	8.2	6.8	10.1	1.4	7.5	7.7

ANALYSIS BY SICK LEAVE & ANNUAL LEAVE

SICK LEAVE BY DISTRICT, OCCUPATION GROUP, AGE GROUP AND ETHNICITY BY GENDER

The following radar chart shows the dispersion of sick leave by District by looking at the average annualised sick leave hours per contracted FTE. It is based on all contracted employees not on long term leave and excluding those who commenced employment during the reporting quarter, regardless of the amount of sick leave taken during this reporting quarter. The process of annualising the quarter's reported sick leave hours may amplify the impact of outlier events, whether these are negative values (reported to correct an over-statement in a previous quarter) or a potential over-reporting, where a person reportedly took more sick leave than we would expect them to have worked based on their contracted FTE.

To read this graph, the blue line indicates the median (50%) sick leave hours per FTE; i.e. 50% of staff took sick leave hours (per FTE) at or below this value. The yellow line indicates the 3rd quartile (75%) sick leave hours per FTE; i.e. 75% of staff took sick leave hours (per FTE) at or below this value. The order of least sick leave hours per FTE to the most sick leave hours per FTE taken runs clockwise from 12 o'clock.

For example, the data for Capital and Coast shows that (if the September quarter is indicative) 50% of staff would have taken 48 hours sick leave or less (note comments on negative sick leave values above) per FTE over the course of a year, and 75% of staff would have taken 126.7 hours or less of sick leave per FTE over the course of a year.

Figure 10: Average annualized sick leave hours per FTE by District

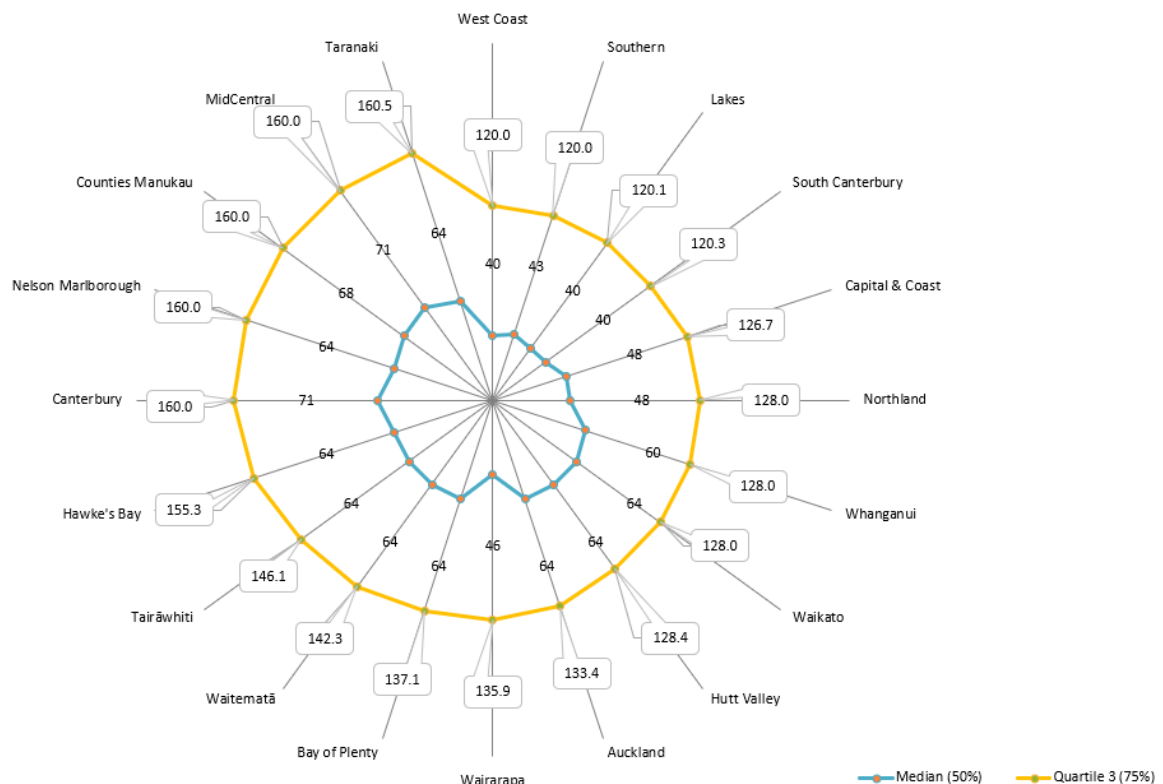


Figure 11: Average annual sick leave hours per FTE by occupational group

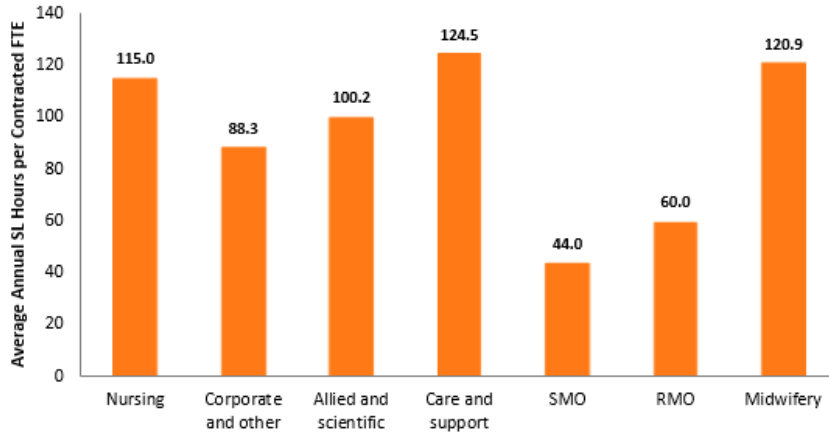


Figure 12: Average annual sick leave hours per FTE by age group by gender

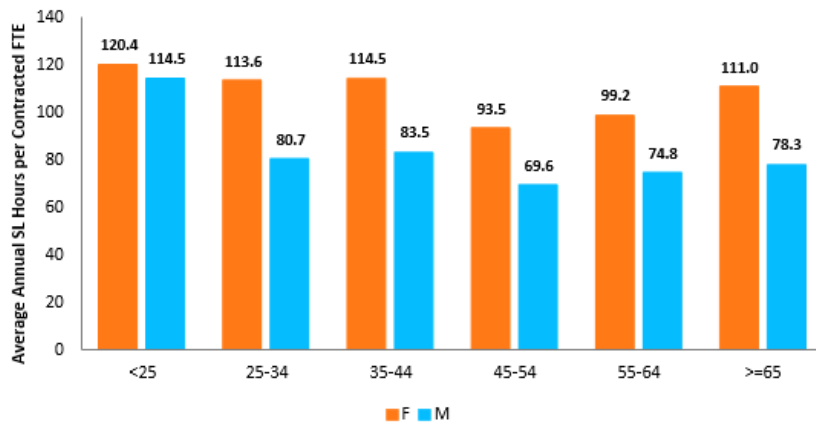
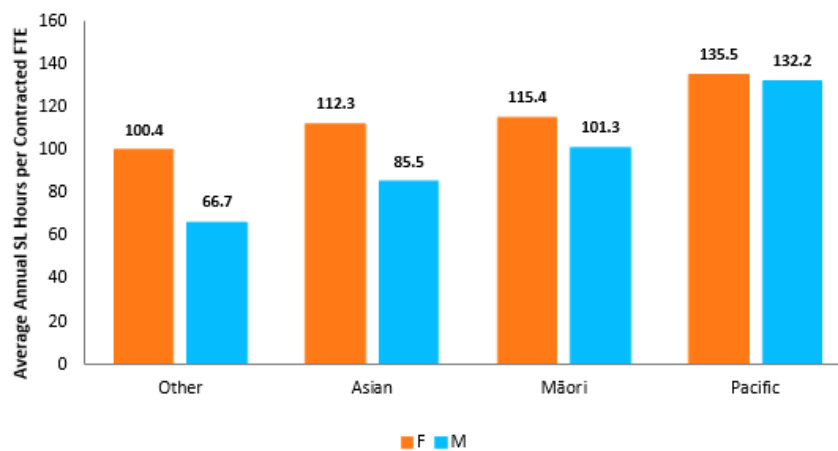


Figure 13: Average annual sick leave hours per FTE by ethnicity by gender



RATIO OF ANNUAL LEAVE BALANCE AND ANNUAL LEAVE ENTITLEMENT BY DISTRICT, OCCUPATION GROUP AND ETHNICITY BY GENDER

In the first chart, the bars represent the ratios of annual leave balance to annual leave entitlement and the blue dotted line represents the national average. For example, a value of 100% means that on average the District employees have an annual leave balance equal to their annual leave entitlement. The chart shows that for the first fifteen Districts, on average their employees have more annual leave balance than annual leave entitlement.

The other two charts on page 19 display the ratio of annual leave balance to entitlement per FTE at the national level, grouped by both Occupation Group and Ethnicity (with gender split).

Figure 14: Ratio of annual leave balance to annual leave entitlement hours per FTE by District

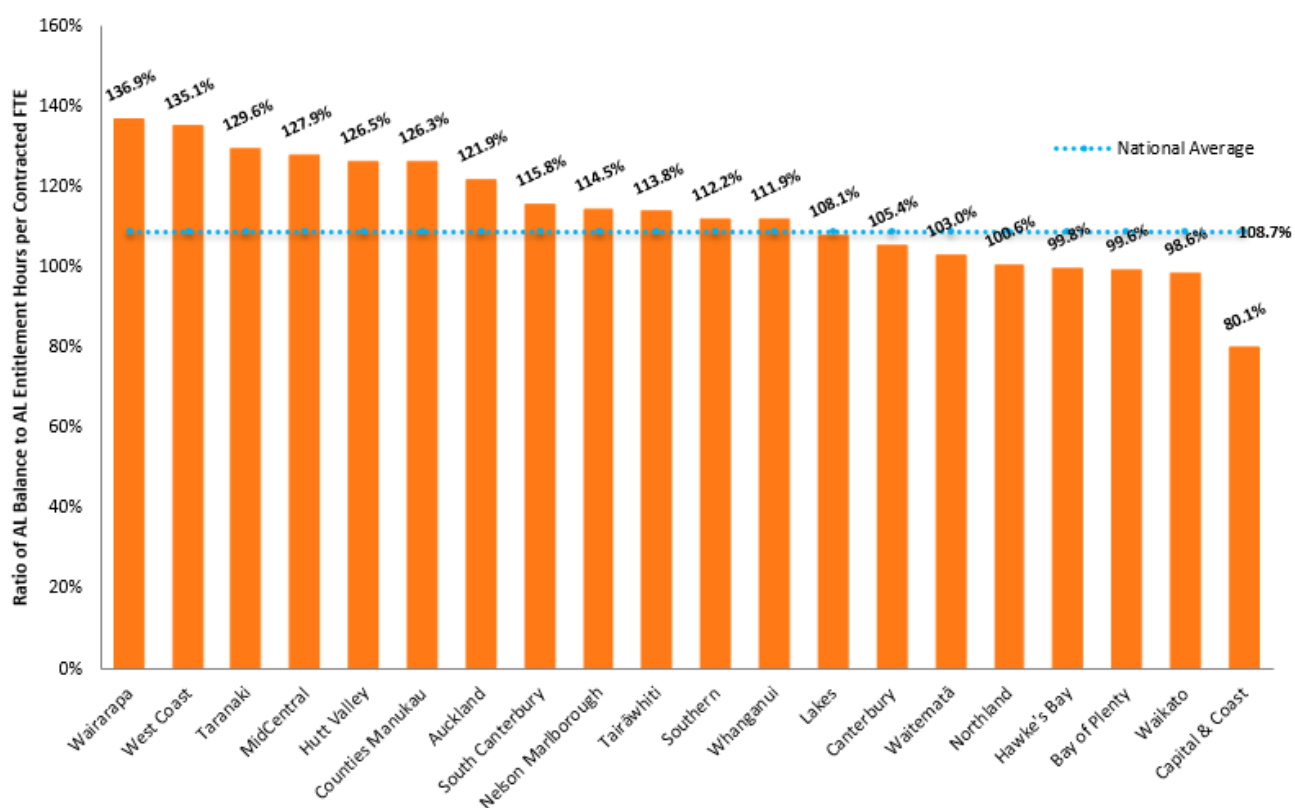


Figure 15: Ratio of annual leave balance to annual leave entitlement hours per FTE by occupational group

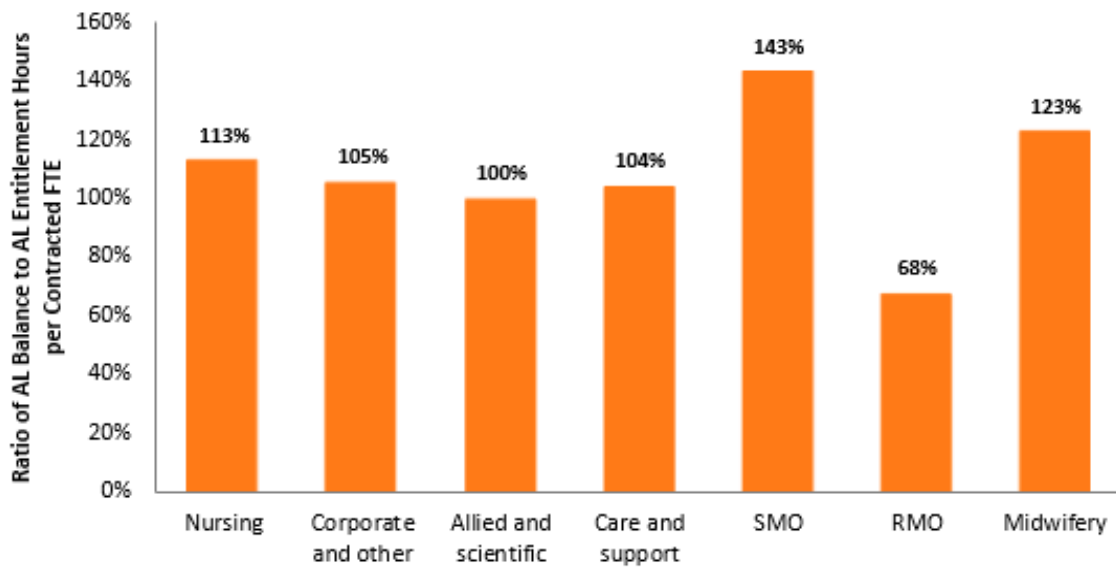
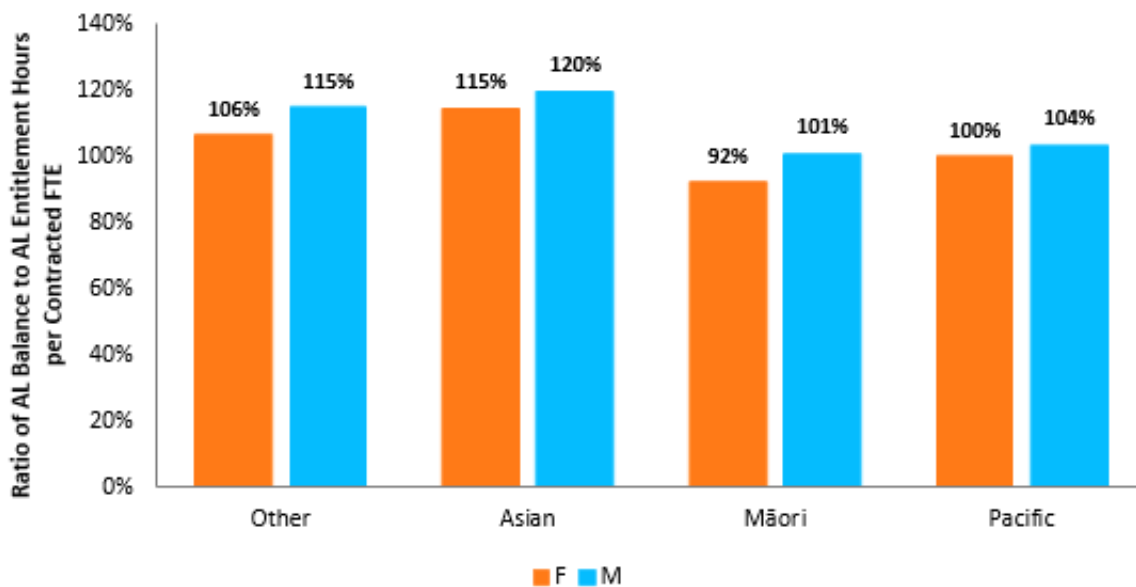


Figure 16: Ratio of annual leave balance to annual leave entitlement hours per FTE by ethnicity by gender

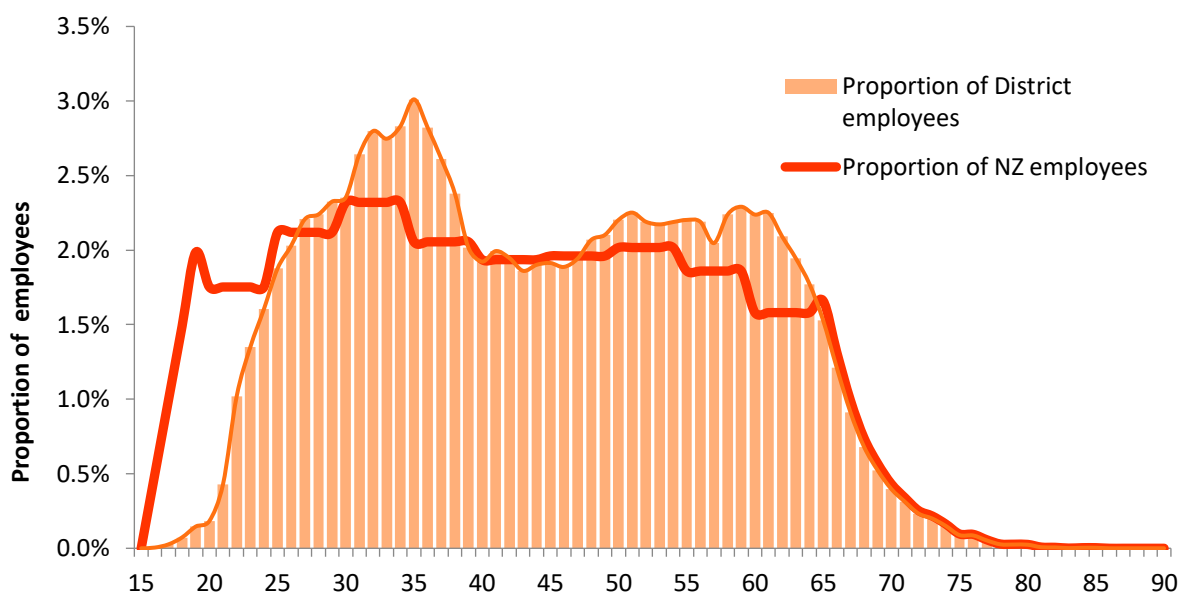


ANALYSIS BY POPULATION

DISTRIBUTION OF OVERALL DISTRICT EMPLOYEES BY AGE, WITH NATIONAL EMPLOYEE DATA

The following chart shows the distribution of ages of District employees (histogram with light orange outline). The District employee distribution is on a position basis. The staggered dark orange line is the distribution of all New Zealand employees for the September 2022 quarter as reported in the Household Labour Force Survey (HLFS) by Statistics New Zealand.

Figure 17: Distribution of overall District employees by age, with national employee data



ETHNIC REPRESENTATION OF WORKFORCE TO RESIDENT POPULATION

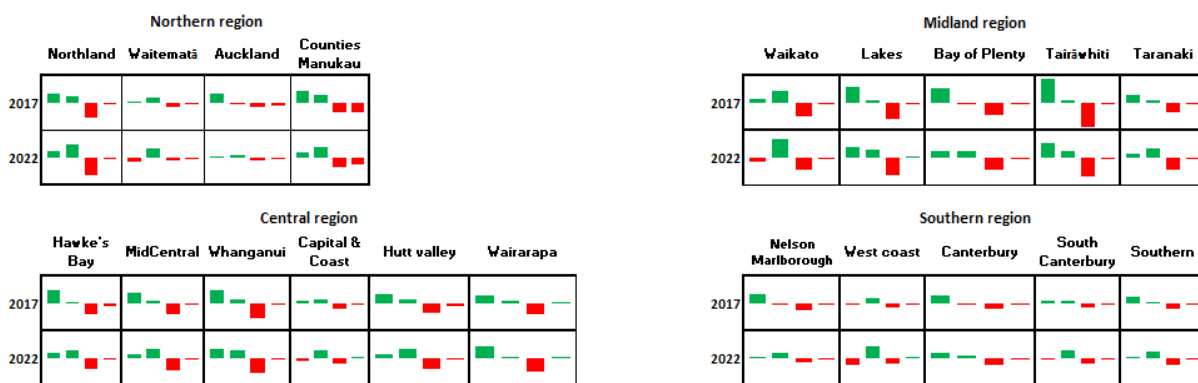
The following charts look at the ethnic representation of District staff to the resident population.

The calculations look at the percentage of staff with a known ethnicity and compare it to the percentage of District residents with a known ethnicity. This latter data has been interpolated from data produced by Statistics New Zealand and is representative for the quarter being reported on. The proportion of staff with a known ethnicity this quarter is 94.5 percent, compared to 92.4 percent in September 2017. This comparison is on a position count level, as we do not have comparable distinct employee counts for 2017.

The four ethnicity groups used are: Other, Asian, Māori and Pacific – ‘Other’ is an amalgamation of all other ethnicities but is primarily European including the ‘New Zealander’ ethnicity. Throughout these charts this is the order of presentation.

When a bar on a chart is green it means the proportion of that ethnicity in the District workforce is greater than the population. If a bar is red then the proportion of the District workforce is less than that of the resident population. All charts use the same axis scale (as these are spark lines the numbers are not written against the axes), which range from -24% to +25% - so comparisons between Districts are possible. The data for 2017 has also been added to show any changes over the last five years.

It is important to note that some Districts have very small counts by ethnicity; for example, West Coast has fewer than five employees who have identified their ethnicity as Pacific. This means the data can be quite volatile. Also, those Districts that are heavily weighted towards a particular ethnicity in their population such as Pacific people in Counties Manukau or Māori in Waikato, will tend to show greater deviations between the District workforce ethnicities and the resident population.



Note: The four bars are ordered as: Other, Asian, Māori and Pacific

For some Districts the ethnic distribution of their staff closely mirrors that of the resident population, such as Auckland. Nationally, the distributions have changed only slightly between 2017 and 2022; the ‘Other’ ethnicities have reduced closer to zero (from eight down to two percentage points difference), whereas Māori and Pacific have less under-representation (from negative nine to negative eight, and negative 2.5 to negative 1.9, percentage points difference, respectively).

POPULATION DENSITY BY OCCUPATIONAL GROUP AND DISTRICT

This section looks at the number of staff per resident population. Staff numbers are contracted FTE figures and they are compared to every 100,000 resident population. Midwives has been compared to the fertile female population (aged 15-49). The important factor to consider in this section is that each District may have different models of care (the way services are delivered to the population). For example, only six Districts provide radiation therapy services, so they may appear to have more staff per head of population but they are actually serving the population from many other Districts.

Figure 18: Population density of Nurses by District

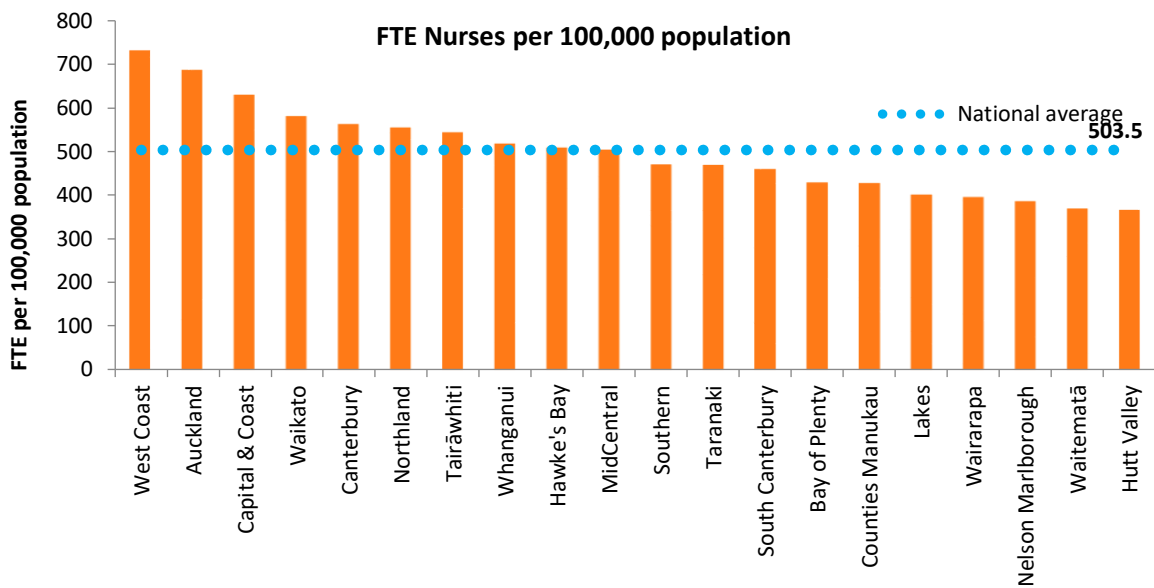


Figure 19: Population density of Corporate & Other by District

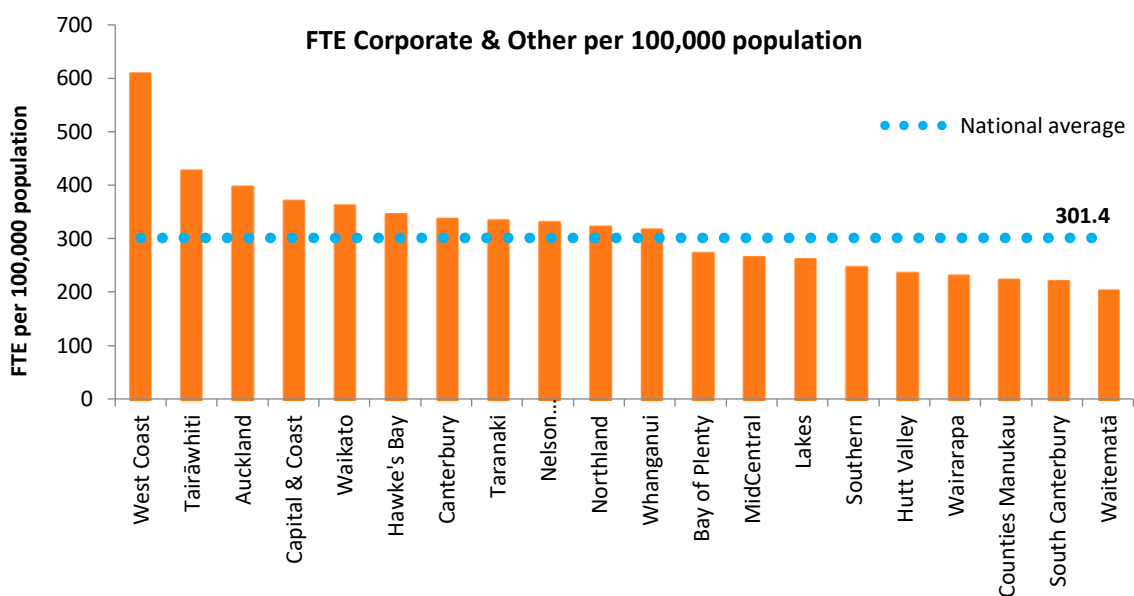


Figure 20: Population density of Allied & Scientific by District

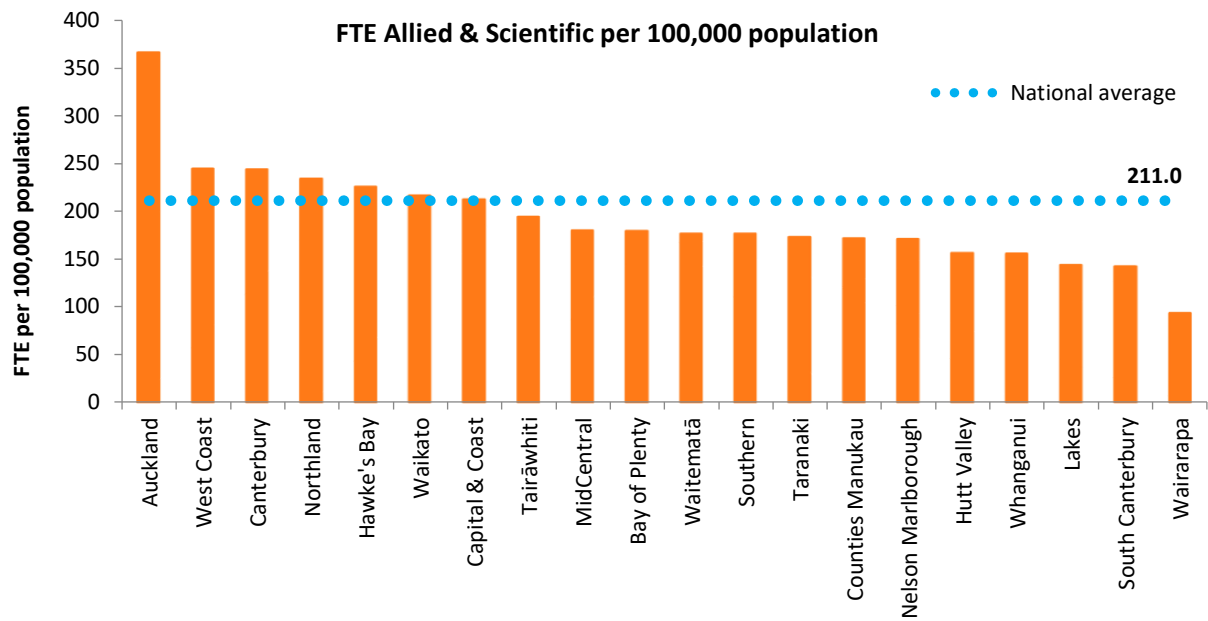


Figure 21: Population density of Care & Support by District

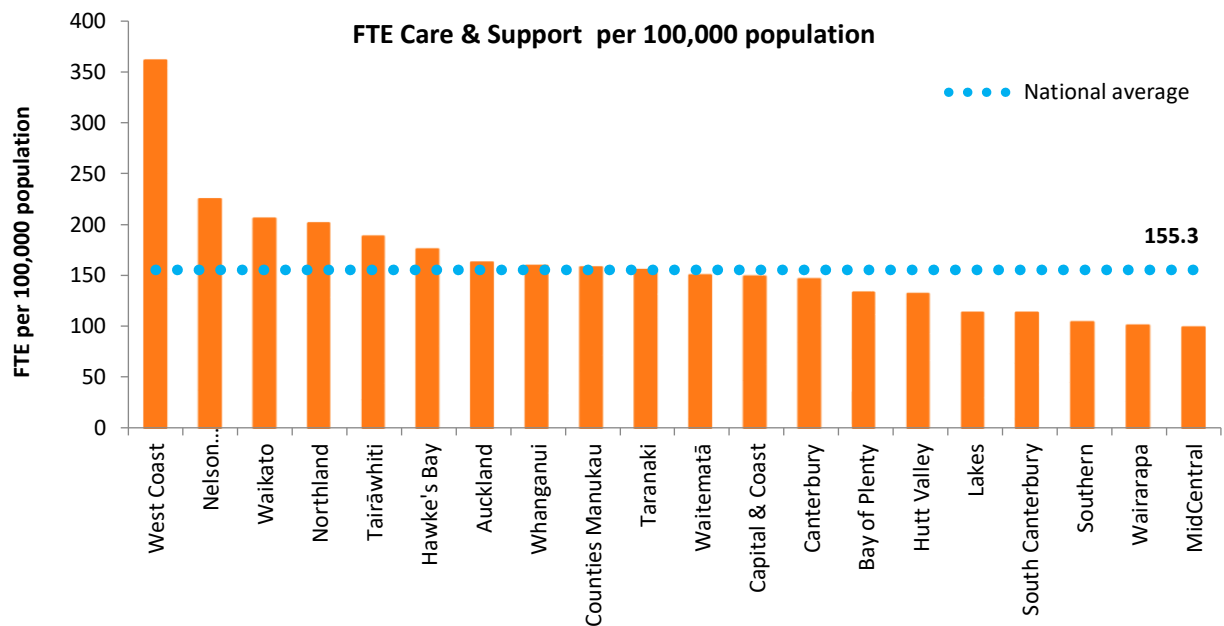


Figure 22: Population density of Senior Medical Officer (SMO) by District

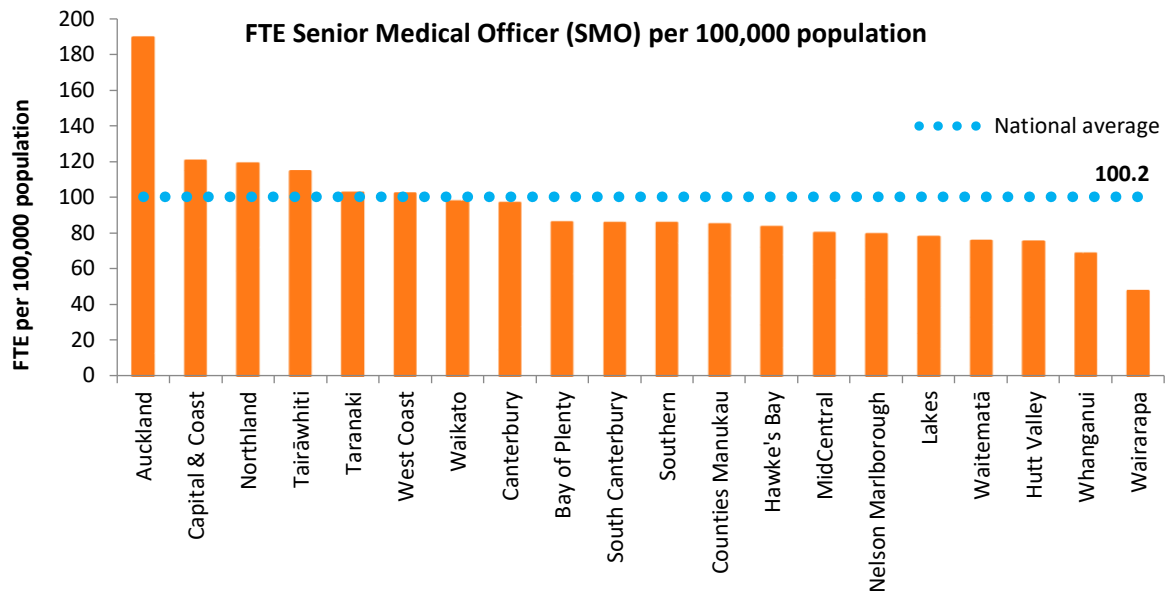


Figure 23: Population density of Resident Medical Officer (RMO) by District

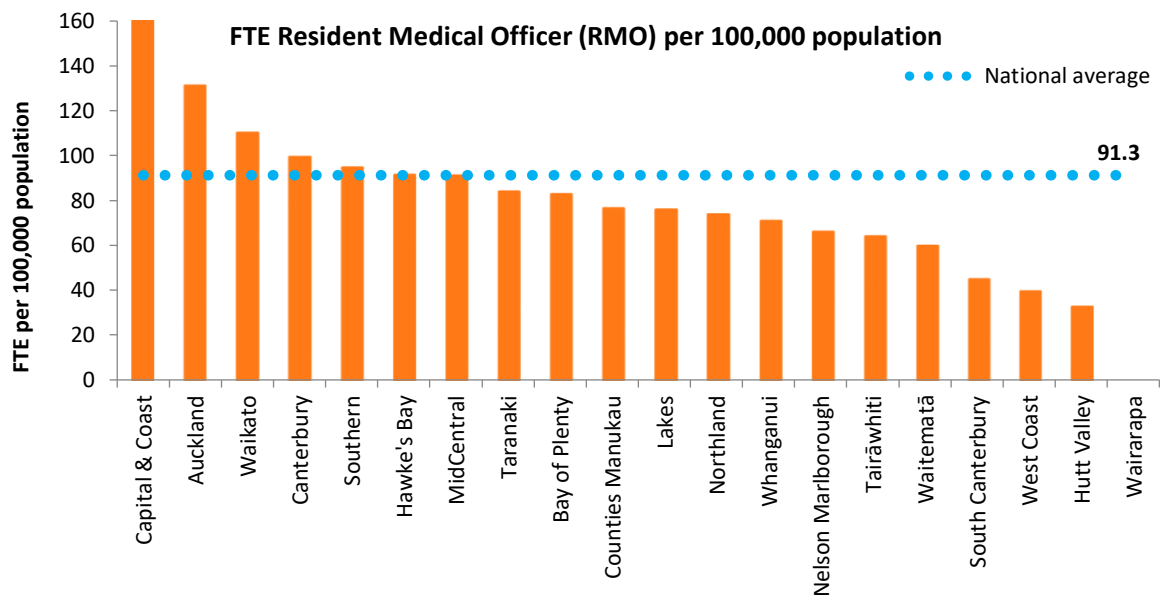


Figure 24: Population density of Midwives by District

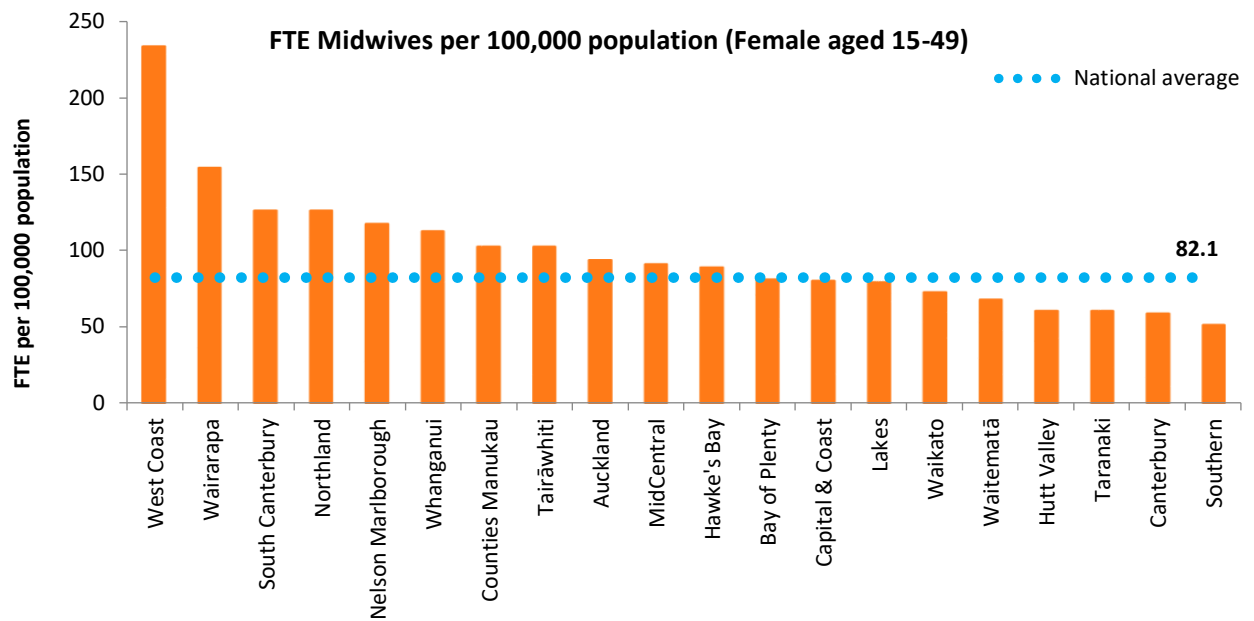


Figure 25: Population density of all District staff by District

