Ministry for Primary Industries
Manatū Ahu Matua

# Human capability in the primary industries data: Part 1

2004 to 2019 – an overview

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# Introduction

This report builds on the Ministry for Primary Industries (MPI) *Future capability needs for the primary industries in New Zealand* (*Future capability* report) that was published in April 2014 and is an updated version of the Human capability in the primary industries: Part 1 – 2002 to 2017. This update incorporates 2018 and 2019 qualification and workforce data. The aim of this report is to monitor how the primary industry workforce is changing over time.

In preparing this report, MPI appreciates the support and advice from the Primary Industry Capability Alliance; Ministry of Education; Tertiary Education Commission; Ministry of Business, Innovation and Employment; DairyNZ, Scarlatti; and the Primary ITO, Statistics New Zealand.

# Disclaimer

Access to the data used in this study was provided by Stats NZ under conditions designed to give effect to the security and confidentiality provisions of the Statistic Act 1975. The results presented in this study are the work of the author, not Stats NZ or individual data suppliers.

These results are not official statistics. They have been created for research purposes from the Integrated Data Infrastructure (IDI) and Longitudinal Business Database (LBD) which are carefully managed by Stats NZ. For more information about the IDI and LBD please visit https://www.stats.govt.nz/integrated-data/.

The results are based in part on tax data supplied by Inland Revenue to Stats NZ under the Tax Administration Act 1994 for statistical purposes. Any discussion of data limitations or weaknesses is in the context of using the IDI for statistical purposes, and is not related to the data's ability to support Inland Revenue's core operational requirements.

# Methodology: slides 9 to 14, 125 to 129

For the count of workers in slides 9 to 14 and 125 to 129 we have applied the same methodology as was used in the Future capability report. This method calculates a seasonal average to recognise the peaks and troughs that industries face throughout a year due to seasonal demands.

The method counts the employees as at March, June, September and December of each tax year and divides the number by four to get an average employee count. This is then added to the self-employed/business-owner counts from the March end-of-year tax returns for each industry.

Use of this method for 2012 calculated about 350,000 workers (IDI sourced data = 336,210 compared to the *Future capability* report = 353,530). The majority of the difference is in Support Services.

It is important to look at the trend over time as opposed to absolute numbers, which in recent years is trending upwards.

# Methodology: from slide 14

From slide 14, a different methodology has been used so that workers can be tracked across multiple years.

A “snapshot” count as at March of each tax year counts all workers who at anytime during the year earned the most income from the primary industry concerned. For example, if a worker earned $50,000 from dairy and $20,000 from horticulture during a tax year they will only be counted once and allocated to the dairy industry. This is consistent with how the LEED data (Linked Employer – Employee Data) is collated and used by Statistics NZ.

The snapshot methodology used across the primary industries returns a significantly different worker count of about 400,000 compared to the seasonal average method of about 350,000 workers. This is because a worker who only worked for six months of the year would count as 0.5 using the seasonal method (present in two quarters divided by four) and the same worker would count as 1.0 using the snapshot methodology.

# Employment counts

The overall size of the primary industry workforce has been increasing since 2013, after a decrease between 2005 and 2013. It is now even larger than in 2005 at 367,000 for 2019 (compared to 360,000 in 2005).

Numbers have varied over this period with a reduction in employment in the red meat and wool, forestry, seafood, and horticulture. This has been offset by an increase in the other sectors, with the biggest increase from those employed in support services.

Support Services are roles that cannot be attributed to a specific sector, or that do not entirely relate to the primary sectors. For example, veterinary services will be provided to all livestock farmers, fertilisers and pesticides can be applied to all land-based activities, scientific research will have varying degrees of importance to all primary sector activities, and transport services will be used by all of the primary industries but also by other industries. Weightings have been applied to support services industries, to account for activity within these industries that is not related to the primary sector.

The reference to “Other Primary” in the following slides includes farming activities that are primarily focused on the domestic market (for example, beekeeping, poultry and pig farming).

# Employment counts

Consistent with the *Future capability* report forecast, overall employment in the primary industries has been increasing since 2012 (the last year of data available in the *Future capability* report), with the largest increases being in the Support Services. In particular:

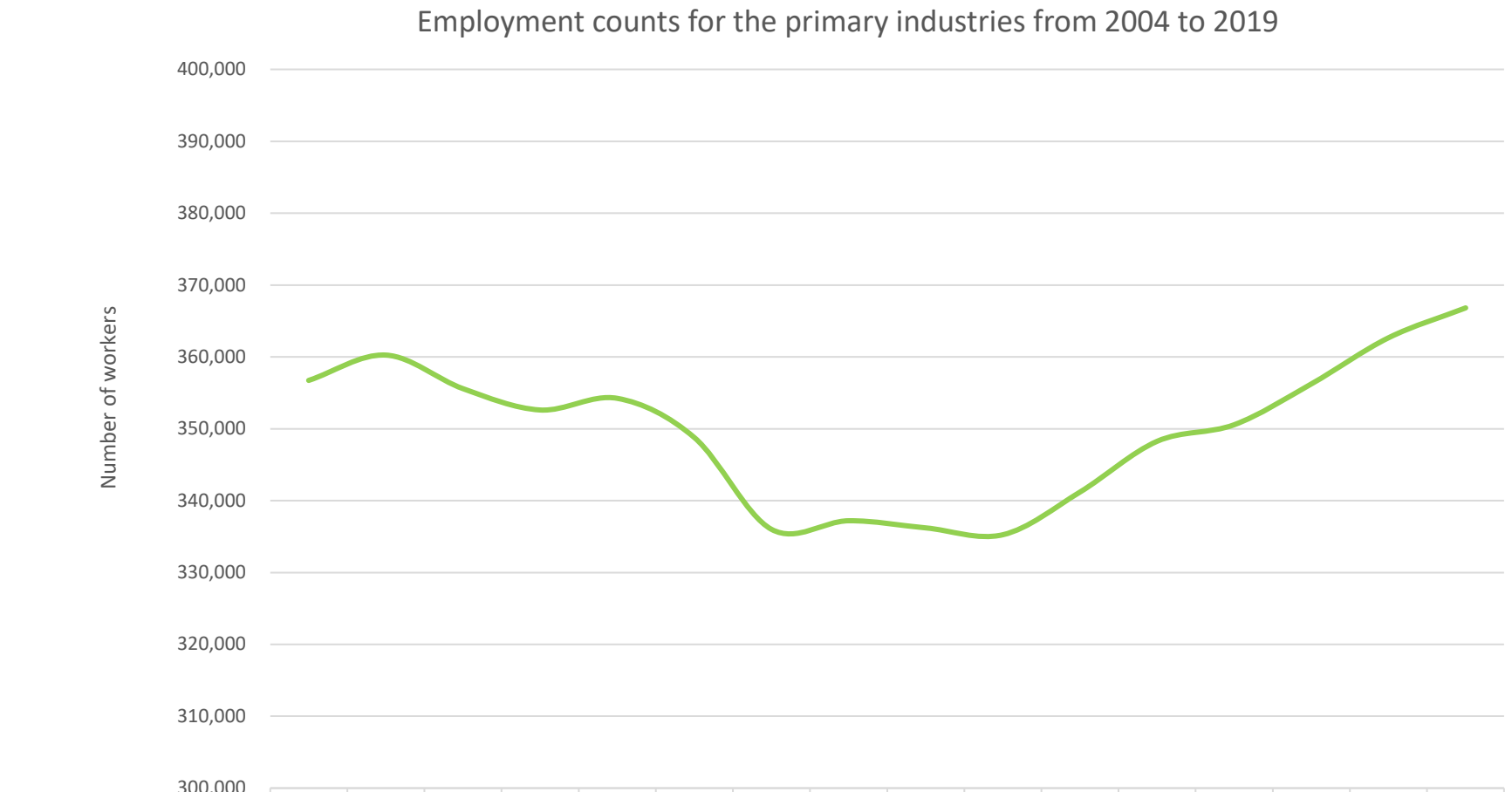
- Other Agricultural and Fishing Support Services, which includes occupations such as agricultural and horticultural mobile plant operator, fencer, mixed crop and livestock farmer/farm worker, fruit and vegetable packer, pest or weed controller, and agricultural technicians.

- Engineering and Design Services, which includes civil engineering construction, engineering design & engineering consulting, computer systems design & related services.

- Professional Services, which includes rural consultants, management advice & consulting, corporate head office management, accounting, finance, legal, advertising, architectural, policy & planning.

The three above categories experienced large increases (see slide 14).

# Employment counts:
## All Primary Industries (including Support Services) 2004-2019

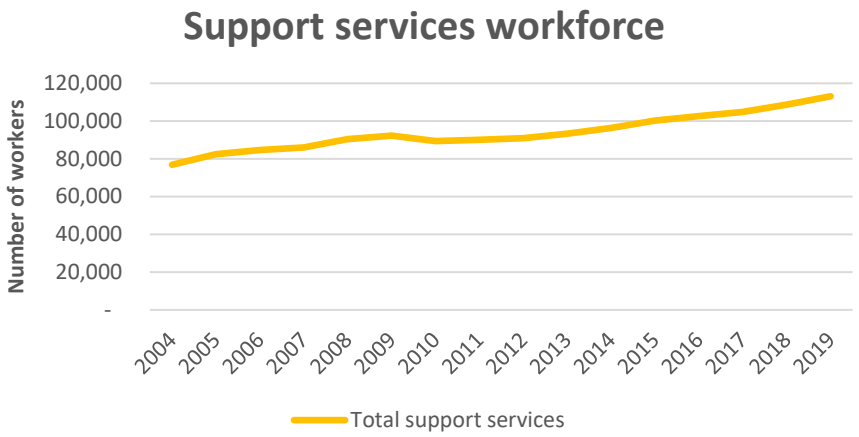


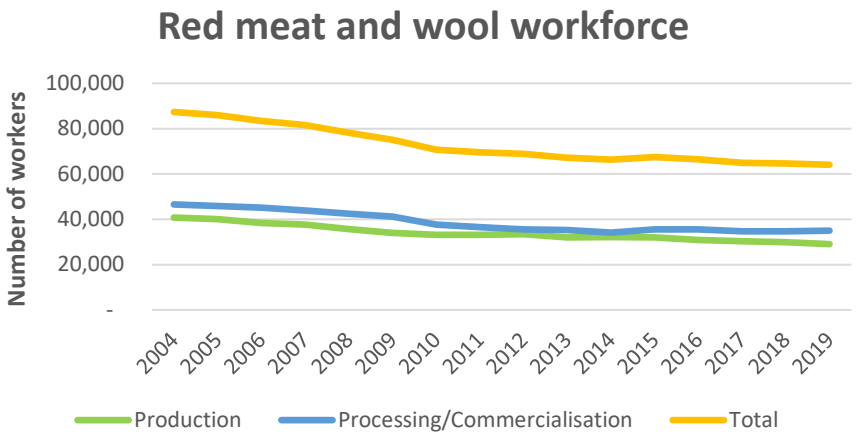

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Primary Industries Total | 356,722 | 360,245 | 355,576 | 352,608 | 354,230 | 348,776 | 336,009 | 337,202 | 336,210 | 335,256 | 341,193 | 348,253 | 350,560 | 356,237 | 362,651 | 366,807 |

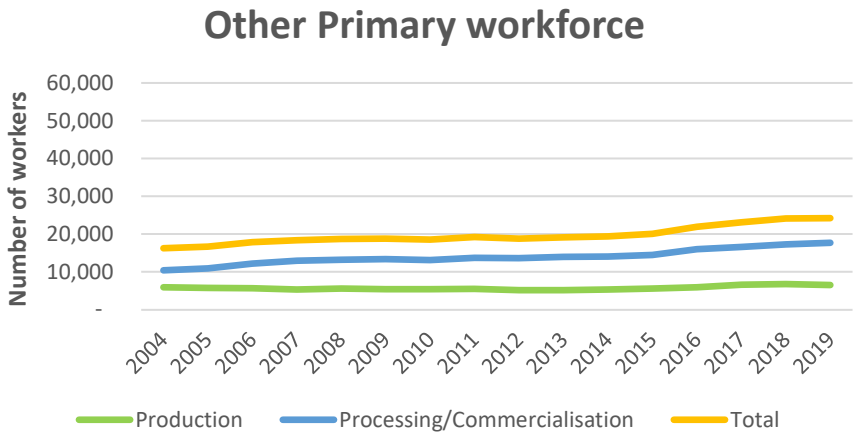
# Employment counts:
## All Primary Industries (including Support Services) 2006-2019

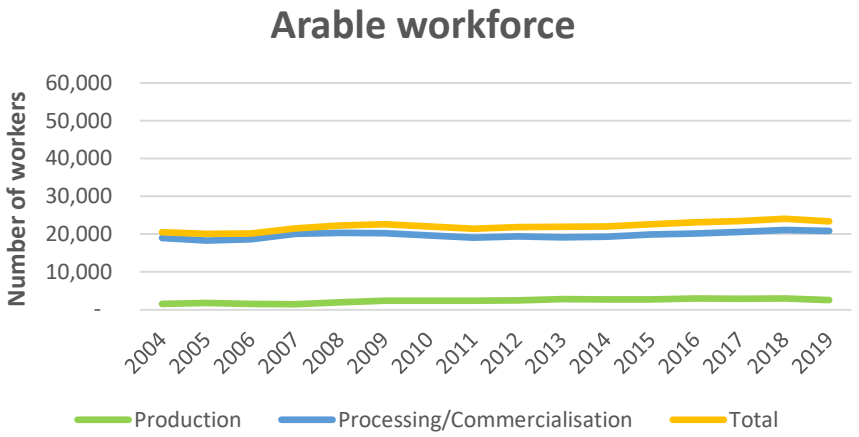
| Sector | Value chain | Year | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Red meat and wool | Production | 38,300 | 37,700 | 35,630 | 33,910 | 33,070 | 33,130 | 33,350 | 31,970 | 32,100 | 31,960 | 30,890 | 30,270 | 29,940 | 29,040 |
| | Proccessing\Commercialisation | 45,140 | 43,840 | 42,515 | 41,205 | 37,640 | 36,495 | 35,505 | 35,205 | 34,180 | 35,540 | 35,515 | 34,630 | 34,640 | 35,015 |
| | Red meat and wool Total | 83,440 | 81,540 | 78,145 | 75,115 | 70,710 | 69,625 | 68,855 | 67,175 | 66,280 | 67,500 | 66,405 | 64,900 | 64,580 | 64,055 |
| Dairy | Production | 34,000 | 33,300 | 34,000 | 33,500 | 33,300 | 35,100 | 36,000 | 35,700 | 37,700 | 37,300 | 33,700 | 34,800 | 34,000 | 33,100 |
| | Proccessing\Commercialisation | 13,690 | 12,510 | 11,610 | 11,530 | 12,120 | 12,340 | 12,610 | 11,940 | 12,650 | 14,280 | 15,050 | 15,230 | 15,650 | 15,980 |
| | Dairy Total | 47,690 | 45,810 | 45,610 | 45,030 | 45,420 | 47,440 | 48,610 | 47,640 | 50,350 | 51,580 | 48,750 | 50,030 | 49,650 | 49,080 |
| Horticulture | Production | 26,395 | 26,125 | 26,800 | 26,050 | 24,945 | 24,155 | 23,135 | 23,320 | 24,030 | 24,265 | 24,765 | 24,865 | 25,085 | 24,930 |
| | Proccessing\Commercialisation | 12,800 | 12,900 | 13,600 | 13,900 | 13,400 | 13,200 | 12,800 | 12,700 | 13,200 | 13,000 | 13,100 | 13,500 | 13,600 | 13,800 |
| | Horticulture Total | 39,195 | 39,025 | 40,400 | 39,950 | 38,345 | 37,355 | 35,935 | 36,020 | 37,230 | 37,265 | 37,865 | 38,365 | 38,685 | 38,730 |
| Forestry | Production | 8,400 | 8,100 | 8,000 | 7,500 | 7,500 | 8,000 | 8,300 | 8,200 | 8,100 | 7,800 | 7,500 | 7,900 | 8,400 | 8,500 |
| | Proccessing\Commercialisation | 39,910 | 37,880 | 36,800 | 33,750 | 31,045 | 31,115 | 29,920 | 29,375 | 29,130 | 28,910 | 30,000 | 30,645 | 31,385 | 32,335 |
| | Forestry Total | 48,310 | 45,980 | 44,800 | 41,250 | 38,545 | 39,115 | 38,220 | 37,575 | 37,230 | 36,710 | 37,500 | 38,545 | 39,785 | 40,835 |
| Arable | Production | 1,500 | 1,410 | 1,990 | 2,400 | 2,400 | 2,400 | 2,500 | 2,800 | 2,700 | 2,700 | 3,000 | 2,900 | 3,000 | 2,530 |
| | Proccessing\Commercialisation | 18,646 | 20,106 | 20,330 | 20,210 | 19,630 | 19,072 | 19,369 | 19,159 | 19,329 | 19,899 | 20,160 | 20,590 | 21,078 | 20,865 |
| | Arable Total | 20,146 | 21,516 | 22,320 | 22,610 | 22,030 | 21,472 | 21,869 | 21,959 | 22,029 | 22,599 | 23,160 | 23,490 | 24,078 | 23,395 |
| Other Primary | Production | 5,640 | 5,370 | 5,560 | 5,410 | 5,430 | 5,540 | 5,190 | 5,160 | 5,300 | 5,610 | 5,970 | 6,570 | 6,810 | 6,520 |
| | Proccessing\Commercialisation | 12,200 | 13,000 | 13,200 | 13,400 | 13,100 | 13,700 | 13,600 | 14,000 | 14,100 | 14,500 | 16,000 | 16,600 | 17,300 | 17,700 |
| | Other Primary Total | 17,840 | 18,370 | 18,760 | 18,810 | 18,530 | 19,240 | 18,790 | 19,160 | 19,400 | 20,110 | 21,970 | 23,170 | 24,110 | 24,220 |
| Seafood | Production | 2,560 | 2,290 | 2,065 | 2,060 | 2,040 | 1,950 | 1,870 | 1,870 | 2,740 | 2,800 | 2,948 | 3,180 | 3,285 | 3,285 |
| | Proccessing\Commercialisation | 11,750 | 12,000 | 11,650 | 11,660 | 11,020 | 11,000 | 11,160 | 10,540 | 9,620 | 9,440 | 9,390 | 9,730 | 9,820 | 10,050 |
| | Seafood Total | 14,310 | 14,290 | 13,715 | 13,720 | 13,060 | 12,950 | 13,030 | 12,410 | 12,360 | 12,240 | 12,338 | 12,910 | 13,105 | 13,335 |
| Support Services | Support Services Total | 84,645 | 86,077 | 90,480 | 92,291 | 89,369 | 90,005 | 90,901 | 93,317 | 96,314 | 100,249 | 102,572 | 104,827 | 108,658 | 113,157 |
| Total Primary Industries | | 355,576 | 352,608 | 354,230 | 348,776 | 336,009 | 337,202 | 336,210 | 335,256 | 341,193 | 348,253 | 350,560 | 356,237 | 362,651 | 366,807 |

# Employment counts:
## Support Services, Red Meat and Wool, Other Primary, and Arable

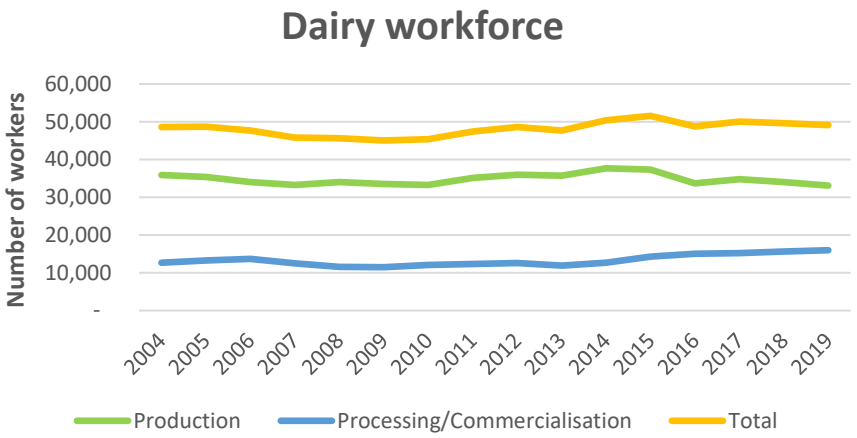


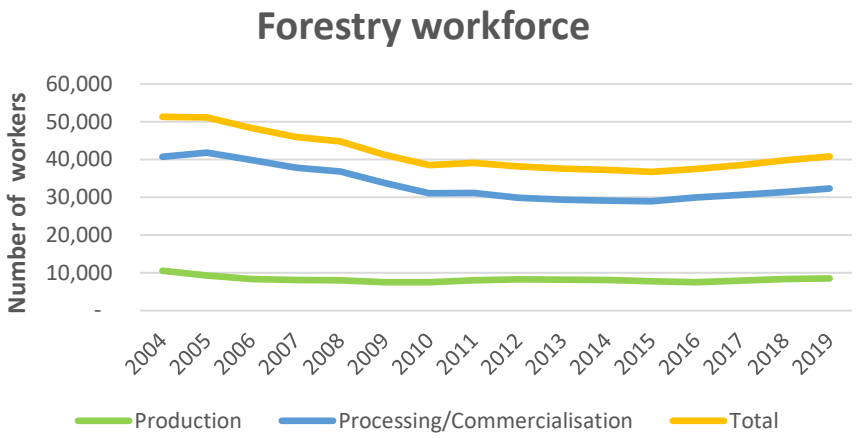



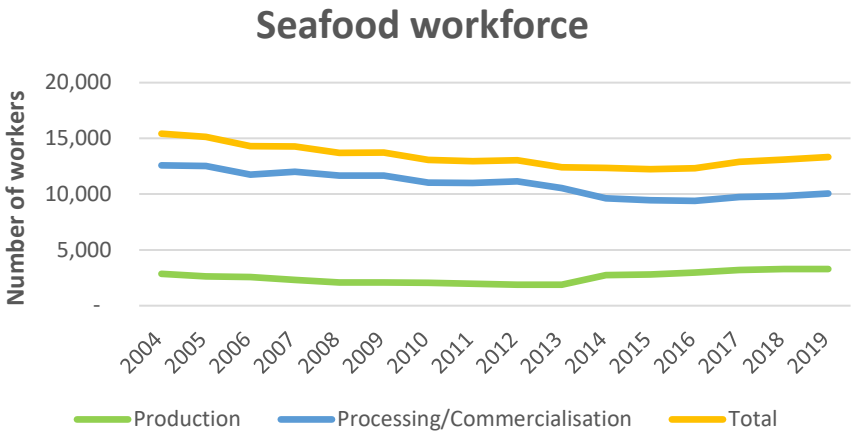



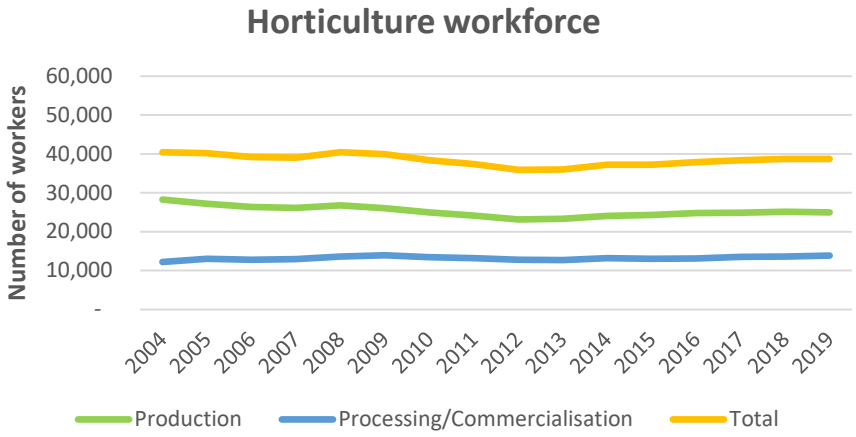



# Employment counts:
## Dairy, Forestry, Seafood, and Horticulture

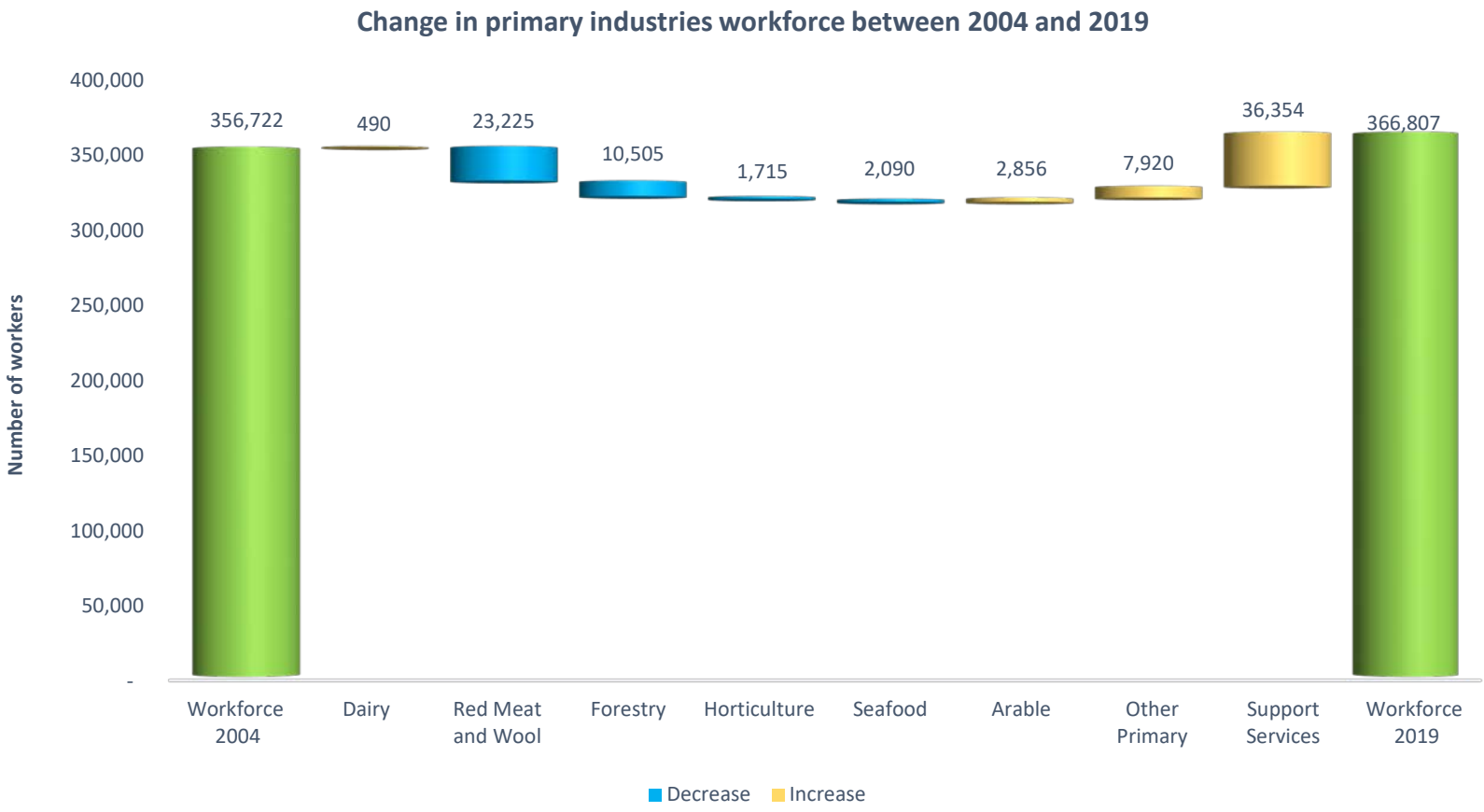


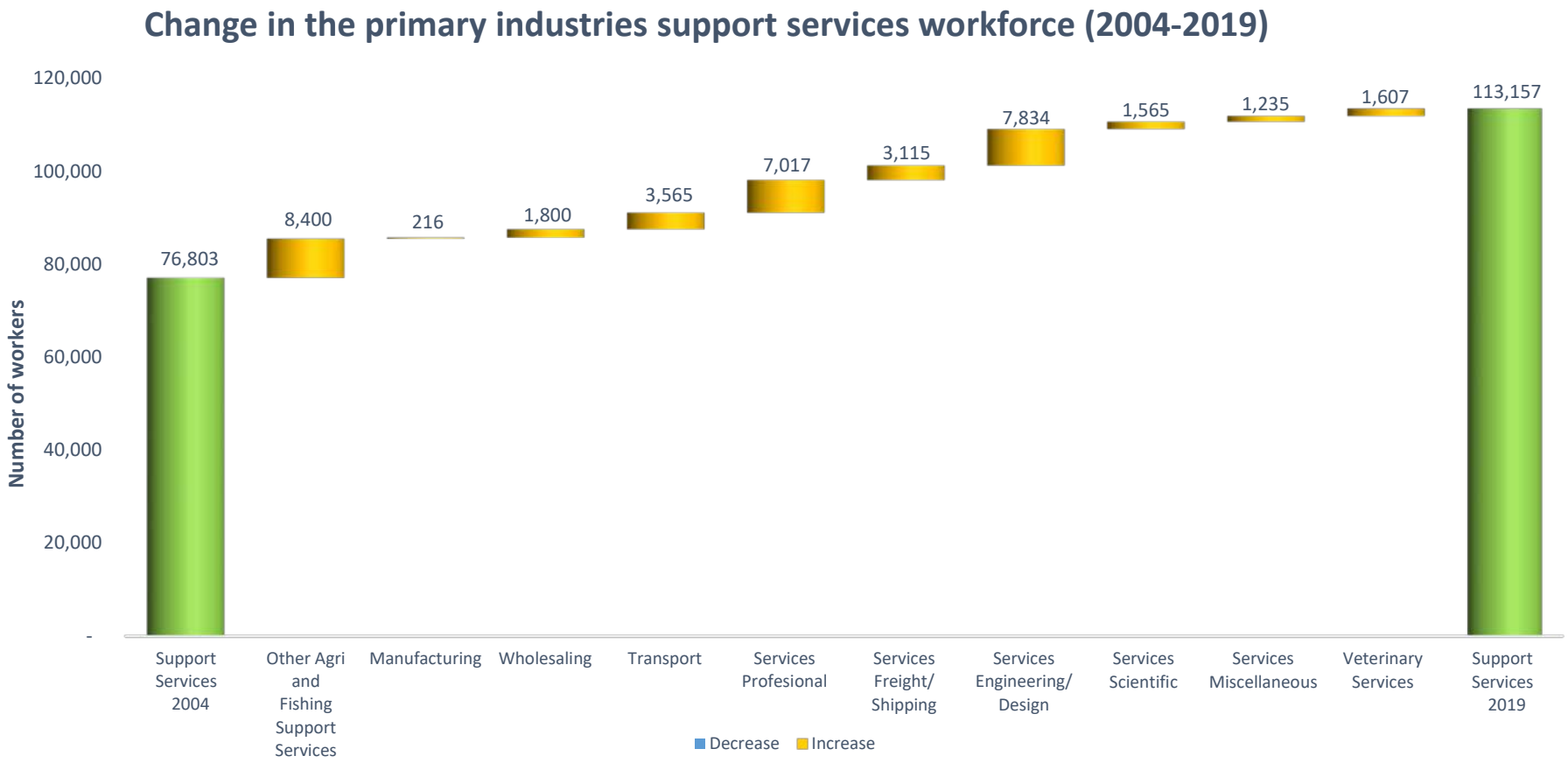



# Employment counts:
## All Primary Industries



# Employment counts:
## Support Services



# Qualification summary

Qualification data are based on the New Zealand Qualification Authority framework:

- Levels 1-3 are certificates;
- Levels 4-6 are certificates and diplomas;
- Level 7 and above are degrees, graduate and postgraduate diplomas, masters and PhDs.

The data is presented only for the age band 15 to 29. This is an attempt to capture how the level of formal qualifications are potentially changing over time by examining the age band that is most likely involved in formal education. This 15 to 29-year-old cohort has a large amount of data available, as opposed to older cohorts where there are many missing educational records due to robust educational data only being available in the IDI from the year 2000 onwards in the case of tertiary data and the year 2007 onwards in the case of secondary school data.

Qualification data have been portrayed as both counts and as percentages of those with qualifications. This is to accommodate the issues around improving data quality over time. Qualification information has been improving and the proportion of people for whom no qualification information is available (due to an unknown mix of no data, no qualifications, or overseas qualification) has been declining. This group is referred to as “Other” in some slides. Along with providing the proportionality of formal qualifications by sectors, the counts are also provided.

# Qualification summary (continued)

Our analysis looks at qualifications across the sectors and also differentiates between those employed in the production part of the supply chain and the processing/commercialisation part of the supply chain.

The analysis has also been undertaken at a regional level and this can be found in *Human capability in the primary: Part 2 sector by region*.

While there are variations in qualifications between the sectors within the primary industries and across various parts of the supply chain, the primary industries as a whole has a lower level of formal qualifications to the general population, but with a similar profile.

However, some key findings include:

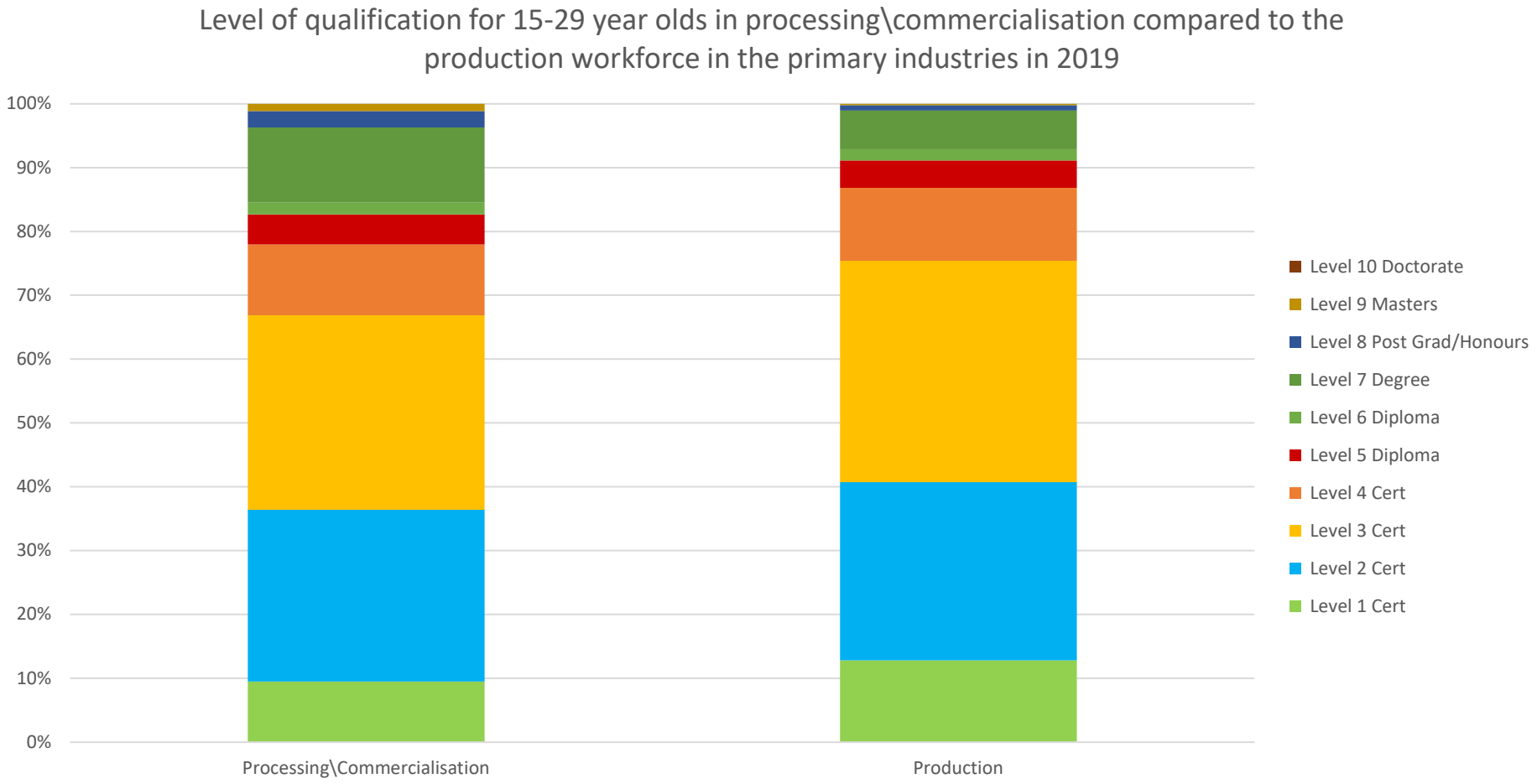
- Only 16 percent of males in the primary industries, in the 15 to 29 age bracket in 2019 and with formal qualifications, had a level 7 or higher qualification (bachelors degree or above). This contrasts with 20 percent of males in this age bracket in the general population.

- 26 percent of females in the primary industries, in the 15 to 29 age bracket in 2019 and with formal qualifications, had a bachelors degree or above. This is comparable to the general population, where 28 percent of females in this age bracket had a level 7 or higher qualification.

- Across all sectors, those working in processing and commercialisation have higher levels of qualifications than those working in the production part of the supply chain (26 percent contrasted with 7 percent).

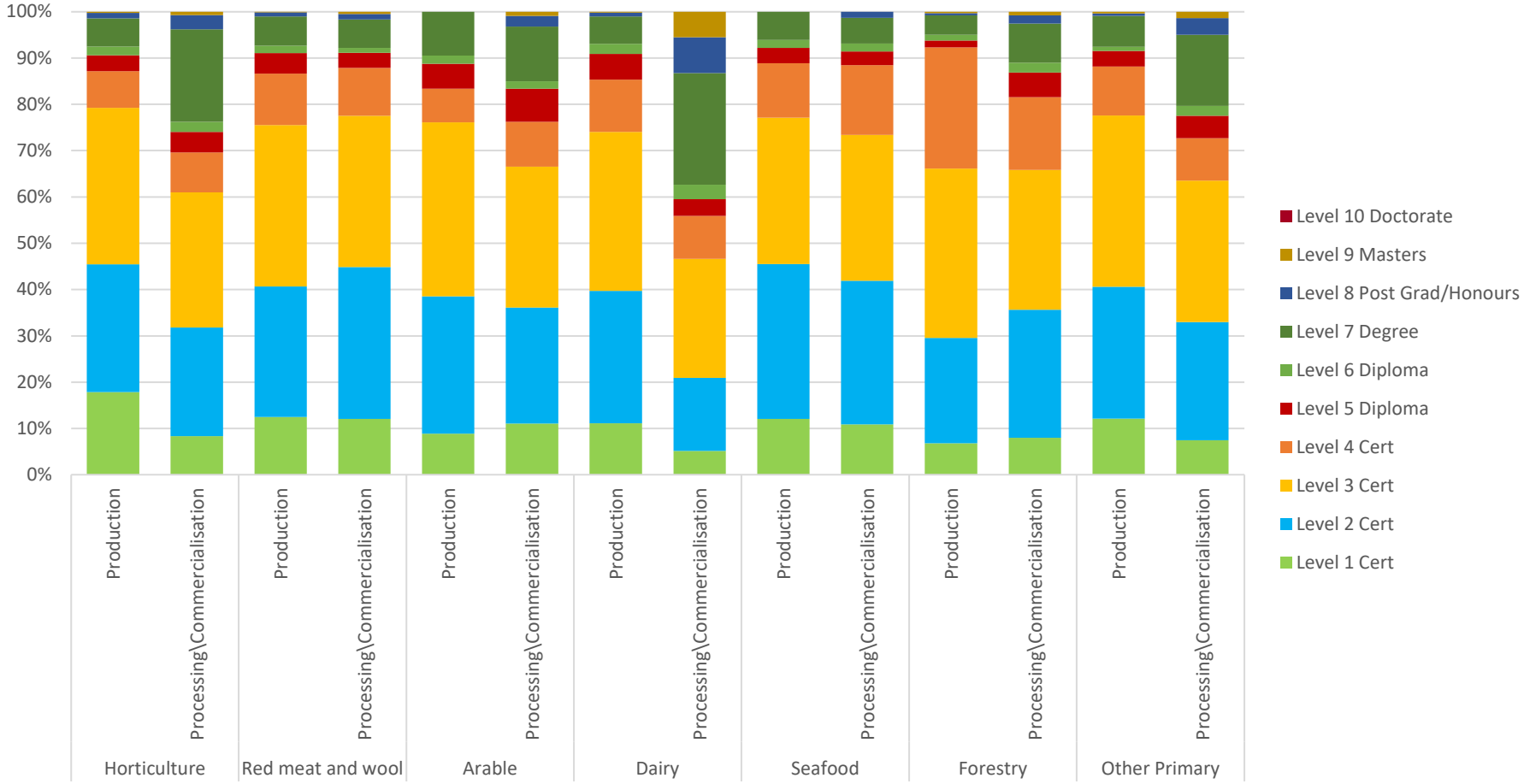
- In the case of Dairy processing and commercialisation there were a significantly higher proportion of both males and females with a bachelors degree or above (31 and 46 percent) compared to the general population (20 and 28 percent).

# NZ Qualification Levels:
## comparing production to processing/commercialisation for all primary industries

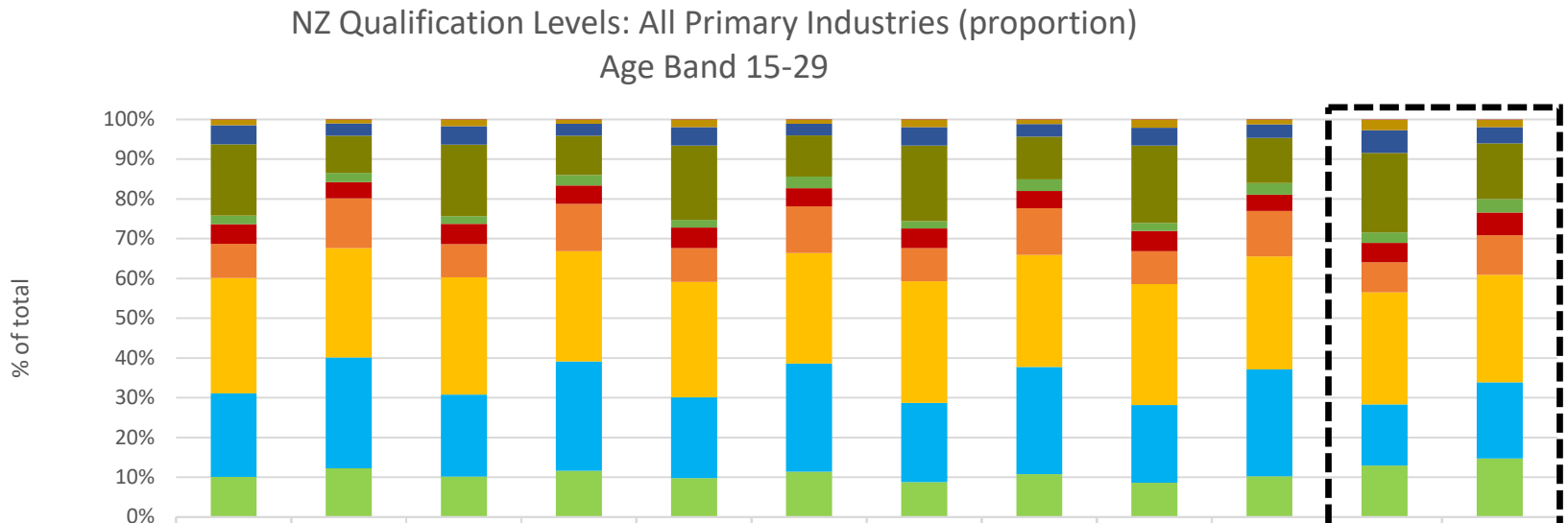


# NZ Qualification Levels: comparing production to processing/commercialisation for sectors

Level of qualification for 15-29 year olds for the production workforce compared to the processing\commercialisation workforce in the primary industries in 2019



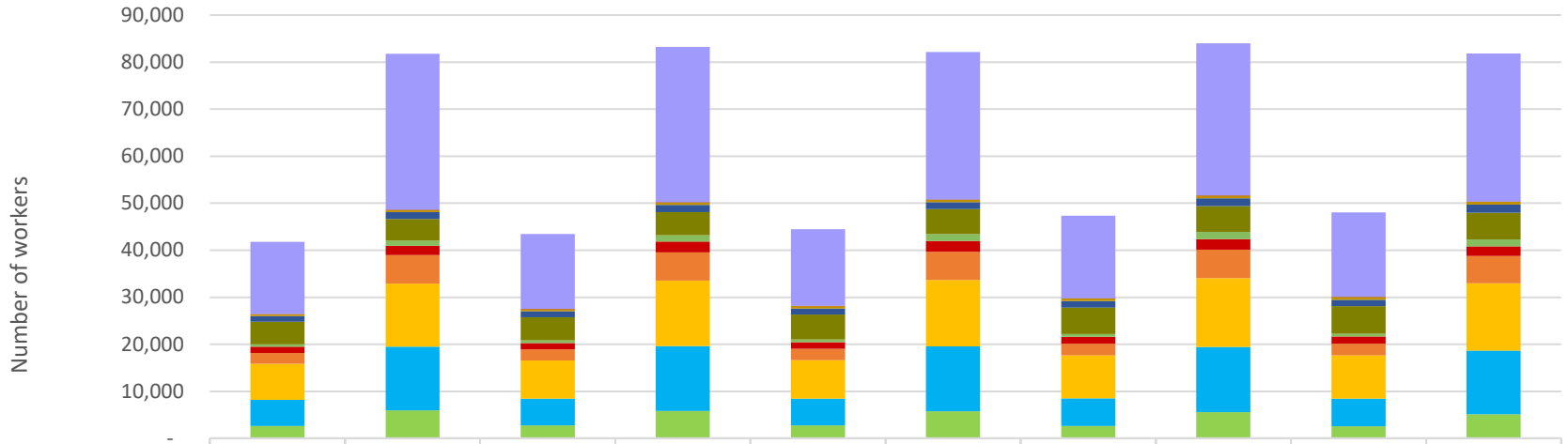
# NZ Qualification Levels:
# All Primary Industries (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 | Female 2018 Census | Male 2018 Census |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0.05% | 0.04% | 0.05% | 0.04% | 0.05% | 0.03% | 0.04% | 0.03% | 0.04% | 0.03% | 0.11% | 0.11% |
| Level 9 Masters | 1% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 3% | 2% |
| Level 8 Post Grad/Honours | 5% | 3% | 5% | 3% | 5% | 3% | 5% | 3% | 4% | 3% | 6% | 4% |
| Level 7 Degree | 18% | 9% | 18% | 10% | 19% | 10% | 19% | 11% | 20% | 11% | 20% | 14% |
| Level 6 Diploma | 2% | 2% | 2% | 3% | 2% | 3% | 2% | 3% | 2% | 3% | 3% | 3% |
| Level 5 Diploma | 5% | 4% | 5% | 5% | 5% | 5% | 5% | 4% | 5% | 4% | 5% | 6% |
| Level 4 Cert | 9% | 12% | 8% | 12% | 8% | 12% | 8% | 12% | 8% | 11% | 8% | 10% |
| Level 3 Cert | 29% | 28% | 29% | 28% | 29% | 28% | 31% | 28% | 30% | 28% | 28% | 27% |
| Level 2 Cert | 21% | 28% | 21% | 27% | 20% | 27% | 20% | 27% | 20% | 27% | 15% | 19% |
| Level 1 Cert | 10% | 12% | 10% | 12% | 10% | 11% | 9% | 11% | 9% | 10% | 13% | 15% |

# NZ Qualification Levels: All Primary Industries (count)

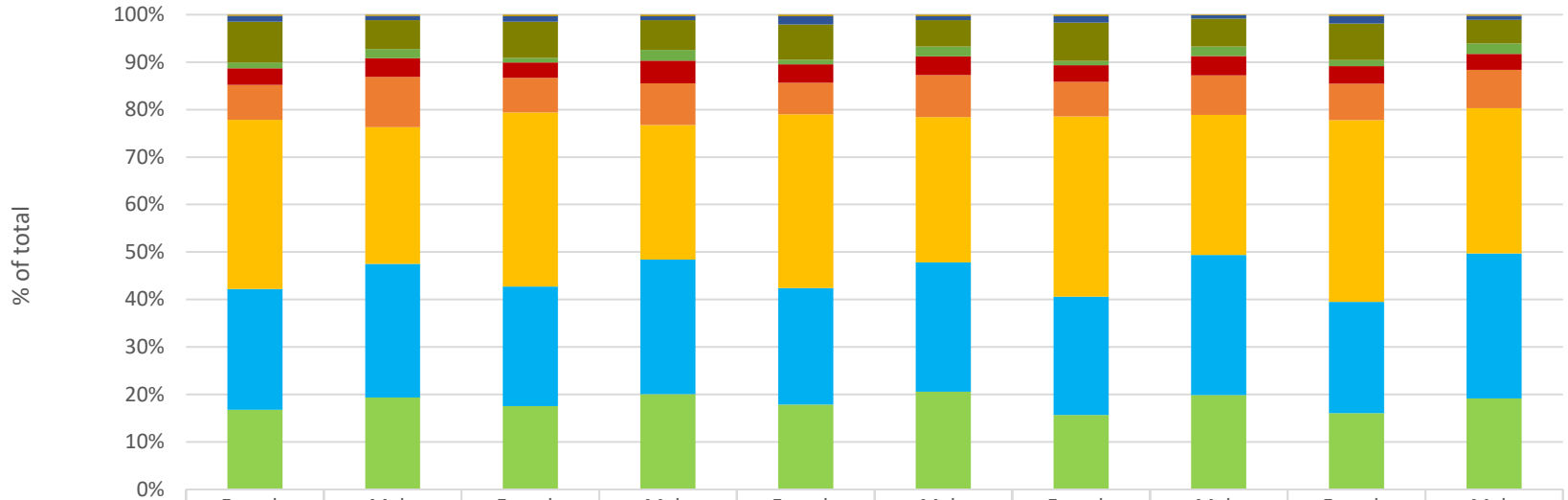
Number of 15-29 year olds in the primary industries with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 15,358 | 33,142 | 15,901 | 33,050 | 16,305 | 31,377 | 17,558 | 32,355 | 17,931 | 31,500 |
| Level 10 Doctorate | 13 | 20 | 14 | 19 | 13 | 18 | 13 | 16 | 11 | 14 |
| Level 9 Masters | 385 | 468 | 458 | 552 | 533 | 547 | 578 | 603 | 623 | 627 |
| Level 8 Post Grad/Honours | 1,264 | 1,511 | 1,274 | 1,506 | 1,304 | 1,502 | 1,386 | 1,644 | 1,344 | 1,707 |
| Level 7 Degree | 4,740 | 4,551 | 4,967 | 4,950 | 5,262 | 5,245 | 5,649 | 5,529 | 5,879 | 5,724 |
| Level 6 Diploma | 568 | 1,137 | 533 | 1,313 | 562 | 1,496 | 541 | 1,506 | 589 | 1,466 |
| Level 5 Diploma | 1,318 | 1,983 | 1,387 | 2,327 | 1,446 | 2,295 | 1,484 | 2,234 | 1,542 | 2,057 |
| Level 4 Cert | 2,263 | 6,070 | 2,300 | 5,977 | 2,392 | 5,980 | 2,492 | 6,065 | 2,484 | 5,768 |
| Level 3 Cert | 7,682 | 13,388 | 8,116 | 13,929 | 8,181 | 14,115 | 9,094 | 14,592 | 9,180 | 14,312 |
| Level 2 Cert | 5,538 | 13,554 | 5,687 | 13,792 | 5,720 | 13,809 | 5,938 | 13,920 | 5,881 | 13,546 |
| Level 1 Cert | 2,674 | 5,942 | 2,795 | 5,848 | 2,747 | 5,785 | 2,613 | 5,553 | 2,588 | 5,138 |

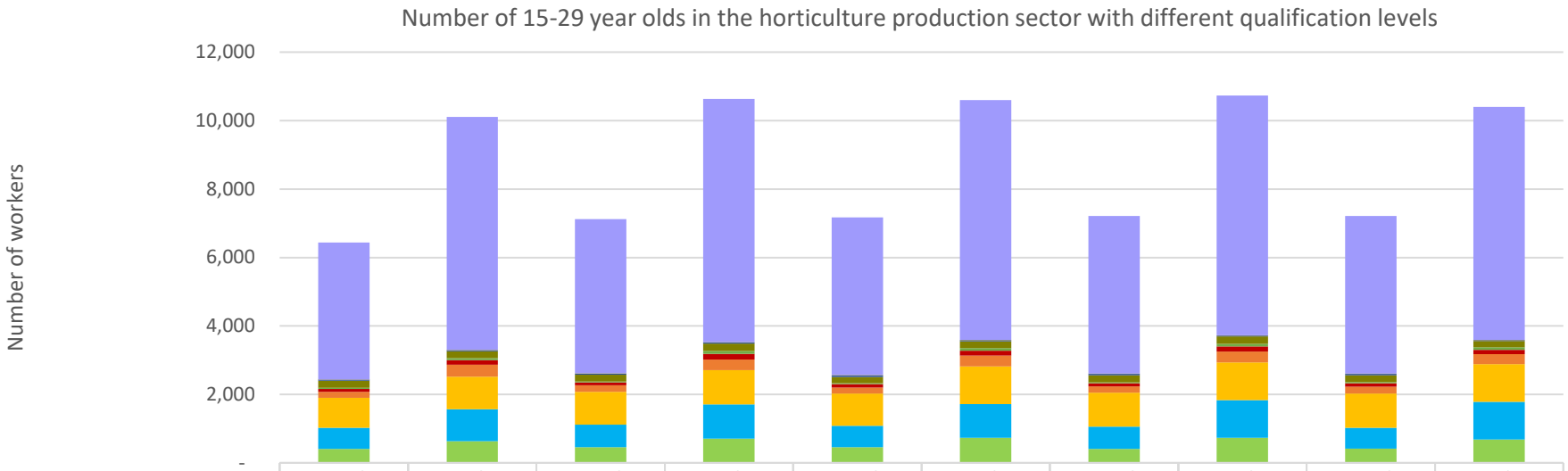
# NZ Qualification Levels: Horticulture Production (proportion)

Proportion of 15-29 year olds in the horticulture production sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 1% | 1% | 1% | 1% | 2% | 1% | 1% | 1% | 2% | 1% |
| Level 7 Degree | 9% | 6% | 8% | 6% | 7% | 6% | 8% | 6% | 8% | 5% |
| Level 6 Diploma | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% |
| Level 5 Diploma | 3% | 4% | 3% | 5% | 4% | 4% | 3% | 4% | 4% | 3% |
| Level 4 Cert | 7% | 11% | 7% | 9% | 7% | 9% | 7% | 8% | 8% | 8% |
| Level 3 Cert | 36% | 29% | 37% | 28% | 37% | 31% | 38% | 30% | 38% | 31% |
| Level 2 Cert | 25% | 28% | 25% | 28% | 25% | 27% | 25% | 30% | 23% | 31% |
| Level 1 Cert | 17% | 19% | 18% | 20% | 18% | 21% | 16% | 20% | 16% | 19% |

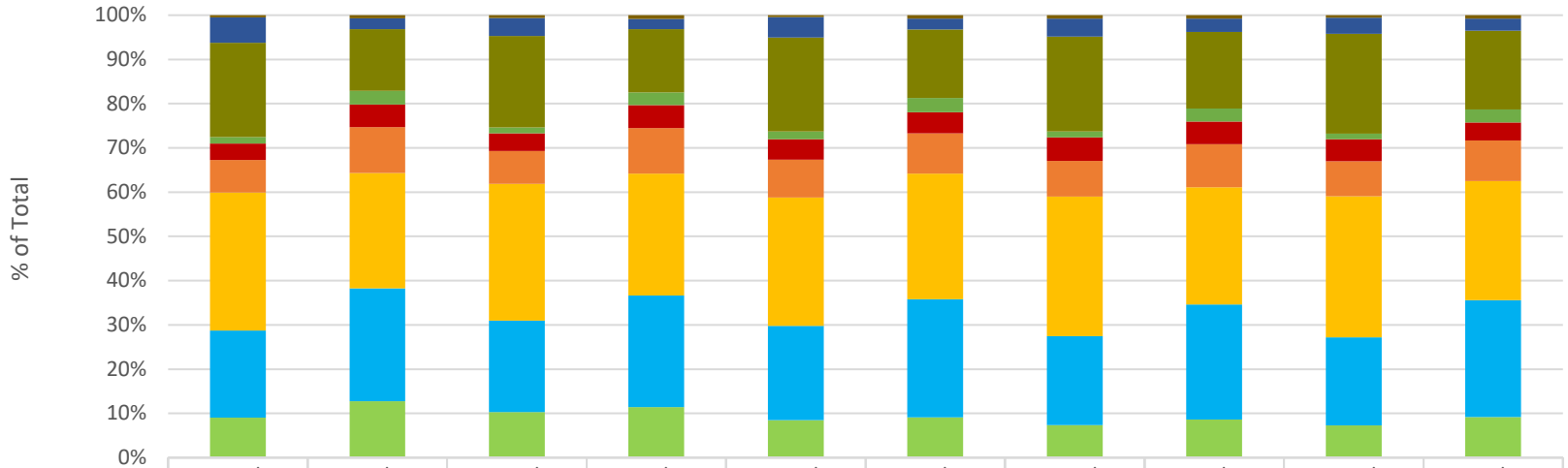
# NZ Qualification Levels: Horticulture Production (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 4,000 | 6,800 | 4,500 | 7,100 | 4,600 | 7,000 | 4,600 | 7,000 | 4,600 | 6,800 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 6 | 9 | 9 | 12 | 9 | 12 | 9 | 6 | 9 | 9 |
| Level 8 Post Grad/Honours | 30 | 30 | 30 | 30 | 45 | 30 | 35 | 25 | 40 | 30 |
| Level 7 Degree | 210 | 200 | 200 | 220 | 190 | 200 | 210 | 220 | 200 | 180 |
| Level 6 Diploma | 30 | 65 | 25 | 80 | 25 | 75 | 25 | 75 | 35 | 80 |
| Level 5 Diploma | 85 | 130 | 85 | 170 | 100 | 140 | 90 | 150 | 95 | 120 |
| Level 4 Cert | 180 | 350 | 190 | 310 | 170 | 320 | 190 | 310 | 200 | 290 |
| Level 3 Cert | 870 | 950 | 960 | 1,000 | 940 | 1,100 | 990 | 1,100 | 1,000 | 1,100 |
| Level 2 Cert | 620 | 930 | 660 | 1,000 | 630 | 980 | 650 | 1,100 | 610 | 1,100 |
| Level 1 Cert | 410 | 640 | 460 | 710 | 460 | 740 | 410 | 740 | 420 | 690 |

# NZ Qualification Levels: Horticulture Processing/Commercialisation (proportion)

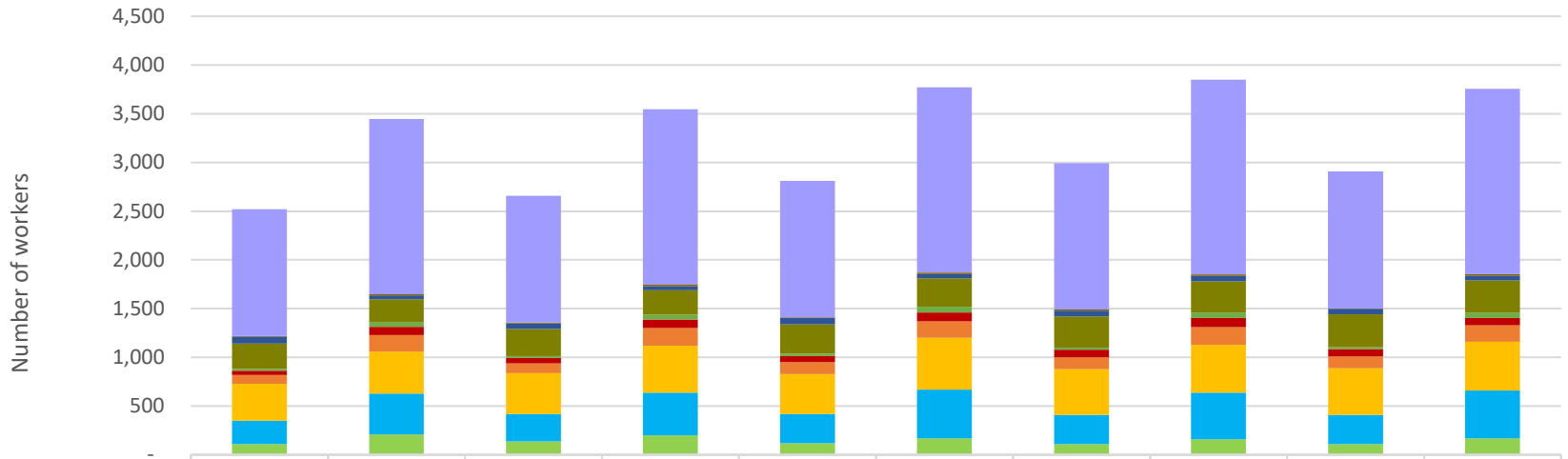
Proportion of 15-29 year olds in the horticulture processing/commercialisation sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 1% | 1% | 1% | 0% | 1% | 1% | 1% | 1% | 1% |
| Level 8 Post Grad/Honours | 6% | 2% | 4% | 2% | 5% | 2% | 4% | 3% | 4% | 3% |
| Level 7 Degree | 21% | 14% | 21% | 14% | 21% | 16% | 21% | 17% | 23% | 18% |
| Level 6 Diploma | 1% | 3% | 1% | 3% | 2% | 3% | 1% | 3% | 1% | 3% |
| Level 5 Diploma | 4% | 5% | 4% | 5% | 5% | 5% | 5% | 5% | 5% | 4% |
| Level 4 Cert | 7% | 10% | 7% | 10% | 9% | 9% | 8% | 10% | 8% | 9% |
| Level 3 Cert | 31% | 26% | 31% | 28% | 29% | 28% | 32% | 26% | 32% | 27% |
| Level 2 Cert | 20% | 26% | 21% | 25% | 21% | 27% | 20% | 26% | 20% | 26% |
| Level 1 Cert | 9% | 13% | 10% | 11% | 9% | 9% | 7% | 9% | 7% | 9% |

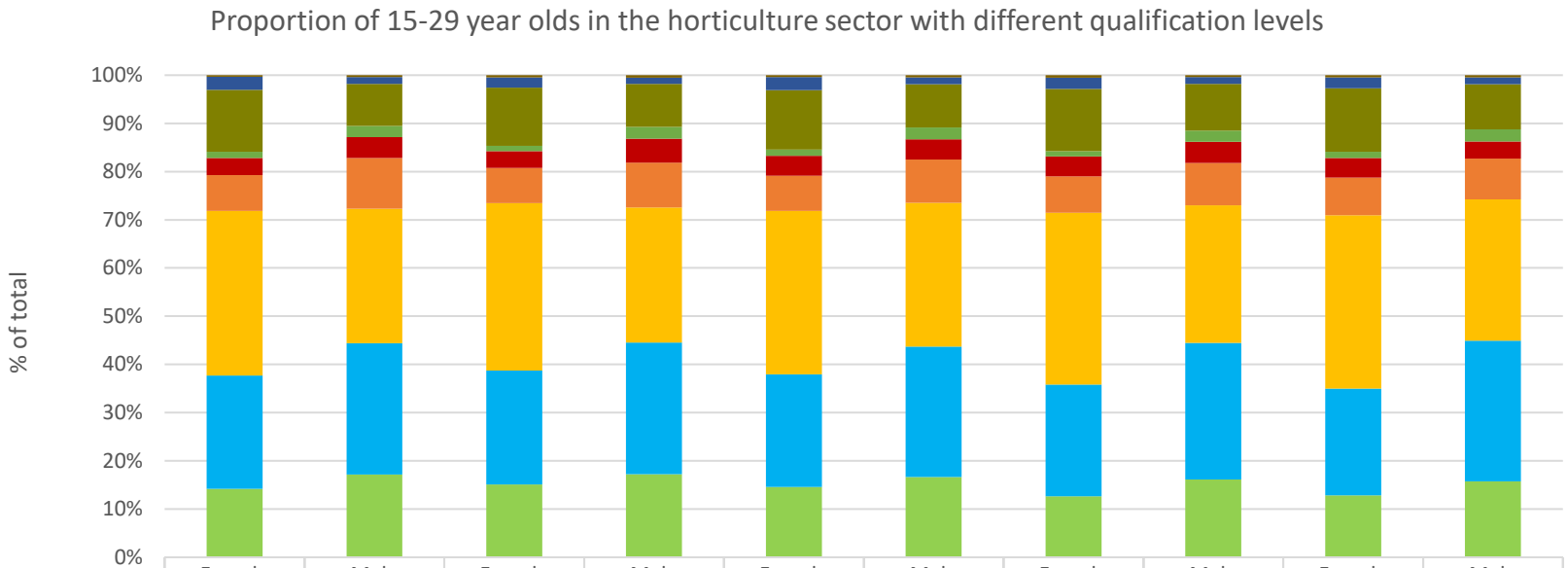
# NZ Qualification Levels: Horticulture Processing/Commercialisation (count)

Number of 15-29 year olds in the horticulture processing/commercialisation sector with different qualification levels



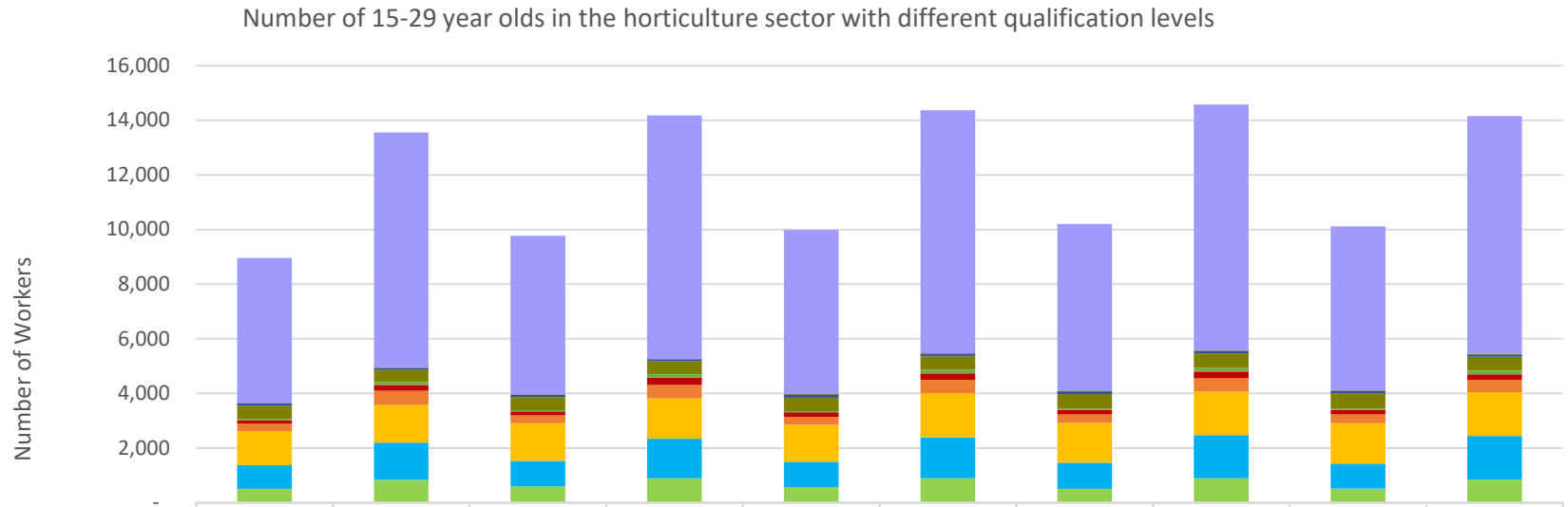

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,300 | 1,800 | 1,300 | 1,800 | 1,400 | 1,900 | 1,500 | 2,000 | 1,400 | 1,900 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 6 | 12 | 9 | 15 | 6 | 15 | 12 | 15 | 9 | 15 |
| Level 8 Post Grad/Honours | 70 | 40 | 55 | 40 | 65 | 45 | 60 | 55 | 55 | 50 |
| Level 7 Degree | 260 | 230 | 280 | 250 | 300 | 290 | 320 | 320 | 340 | 330 |
| Level 6 Diploma | 18 | 50 | 18 | 50 | 25 | 60 | 20 | 55 | 18 | 55 |
| Level 5 Diploma | 45 | 85 | 55 | 90 | 65 | 90 | 80 | 95 | 75 | 75 |
| Level 4 Cert | 90 | 170 | 100 | 180 | 120 | 170 | 120 | 180 | 120 | 170 |
| Level 3 Cert | 380 | 430 | 420 | 480 | 410 | 530 | 470 | 490 | 480 | 500 |
| Level 2 Cert | 240 | 420 | 280 | 440 | 300 | 500 | 300 | 480 | 300 | 490 |
| Level 1 Cert | 110 | 210 | 140 | 200 | 120 | 170 | 110 | 160 | 110 | 170 |

# NZ Qualification Levels: Horticulture Total (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 1% | 0% | 0% | 1% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 3% | 1% | 2% | 1% | 3% | 1% | 2% | 1% | 2% | 1% |
| Level 7 Degree | 13% | 9% | 12% | 9% | 12% | 9% | 13% | 10% | 13% | 9% |
| Level 6 Diploma | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% |
| Level 5 Diploma | 4% | 4% | 4% | 5% | 4% | 4% | 4% | 4% | 4% | 4% |
| Level 4 Cert | 7% | 11% | 7% | 9% | 7% | 9% | 8% | 9% | 8% | 8% |
| Level 3 Cert | 34% | 28% | 35% | 28% | 34% | 30% | 36% | 29% | 36% | 29% |
| Level 2 Cert | 23% | 27% | 24% | 27% | 23% | 27% | 23% | 28% | 22% | 29% |
| Level 1 Cert | 14% | 17% | 15% | 17% | 15% | 17% | 13% | 16% | 13% | 16% |

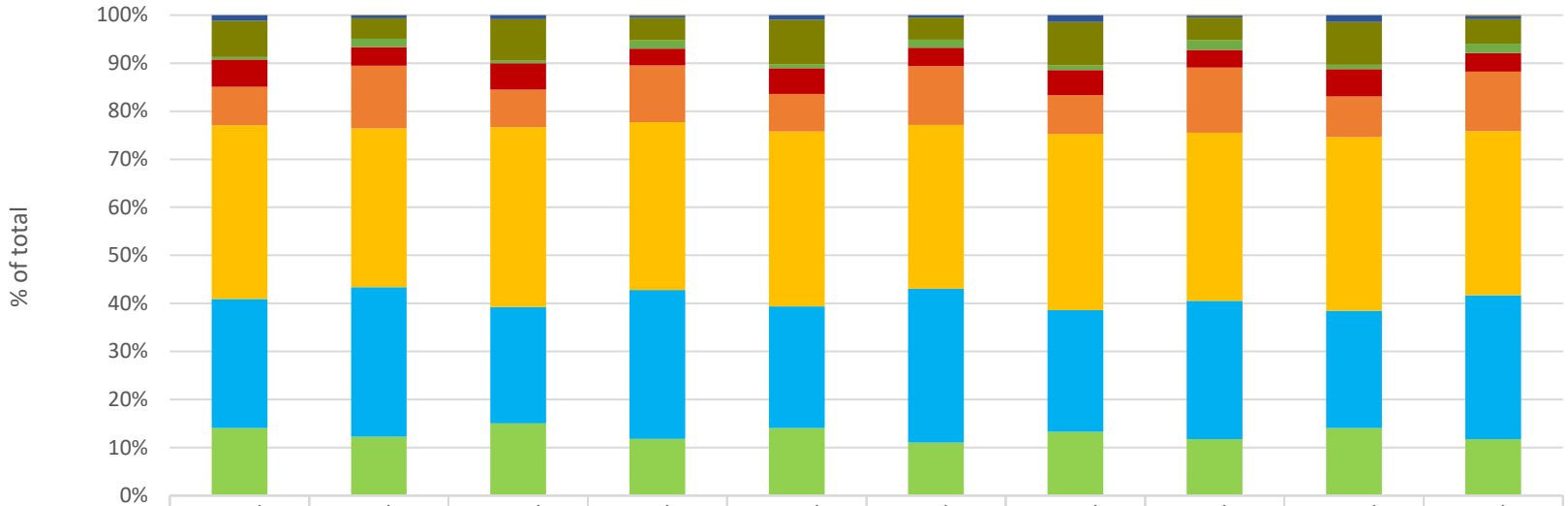
# NZ Qualification Levels: Horticulture Total (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 5,300 | 8,600 | 5,800 | 8,900 | 6,000 | 8,900 | 6,100 | 9,000 | 6,000 | 8,700 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 12 | 21 | 18 | 27 | 15 | 27 | 21 | 21 | 18 | 24 |
| Level 8 Post Grad/Honours | 100 | 70 | 85 | 70 | 110 | 75 | 95 | 80 | 95 | 80 |
| Level 7 Degree | 470 | 430 | 480 | 470 | 490 | 490 | 530 | 540 | 540 | 510 |
| Level 6 Diploma | 48 | 115 | 43 | 130 | 50 | 135 | 45 | 130 | 53 | 135 |
| Level 5 Diploma | 130 | 215 | 140 | 260 | 165 | 230 | 170 | 245 | 170 | 195 |
| Level 4 Cert | 270 | 520 | 290 | 490 | 290 | 490 | 310 | 490 | 320 | 460 |
| Level 3 Cert | 1,250 | 1,380 | 1,380 | 1,480 | 1,350 | 1,630 | 1,460 | 1,590 | 1,480 | 1,600 |
| Level 2 Cert | 860 | 1,350 | 940 | 1,440 | 930 | 1,480 | 950 | 1,580 | 910 | 1,590 |
| Level 1 Cert | 520 | 850 | 600 | 910 | 580 | 910 | 520 | 900 | 530 | 860 |

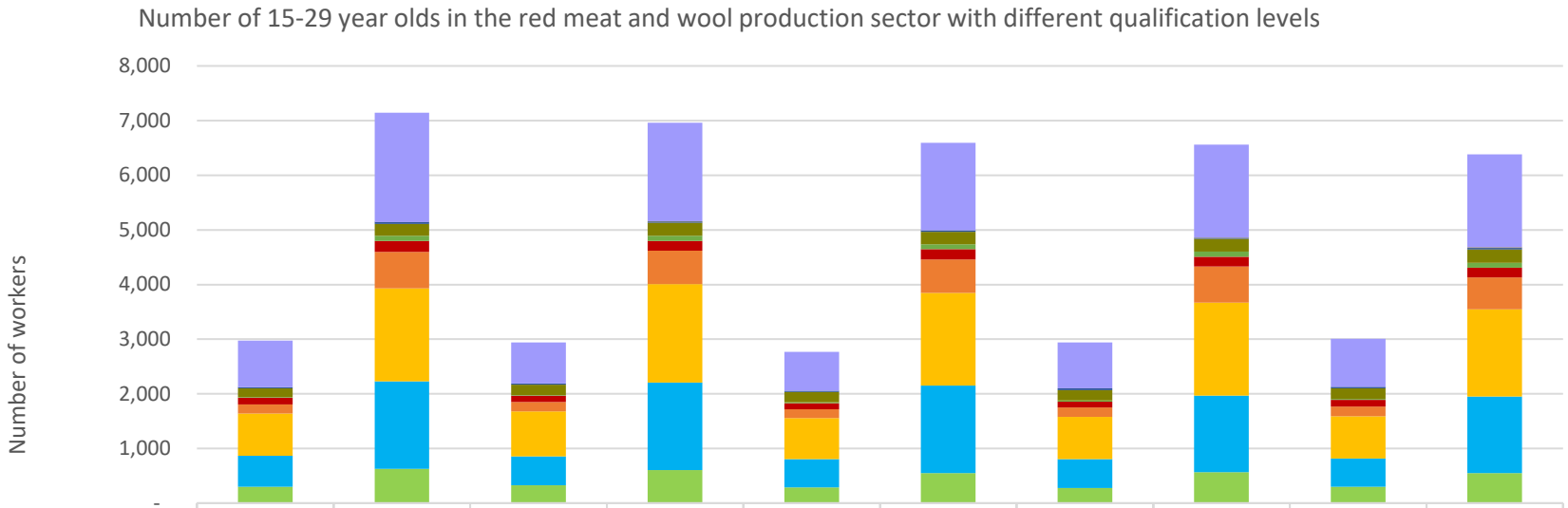
# NZ Qualification Levels:
# Red Meat & Wool Production (proportion)

Proportion of 15-29 year olds in the red meat and wool production sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 1% | 1% | 1% | 0% | 1% | 1% | 1% | 0% | 1% | 1% |
| Level 7 Degree | 8% | 4% | 9% | 5% | 9% | 5% | 9% | 5% | 9% | 5% |
| Level 6 Diploma | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% |
| Level 5 Diploma | 6% | 4% | 5% | 3% | 5% | 4% | 5% | 4% | 6% | 4% |
| Level 4 Cert | 8% | 13% | 8% | 12% | 8% | 12% | 8% | 14% | 8% | 12% |
| Level 3 Cert | 36% | 33% | 37% | 35% | 36% | 34% | 37% | 35% | 36% | 34% |
| Level 2 Cert | 27% | 31% | 24% | 31% | 25% | 32% | 25% | 29% | 24% | 30% |
| Level 1 Cert | 14% | 12% | 15% | 12% | 14% | 11% | 13% | 12% | 14% | 12% |

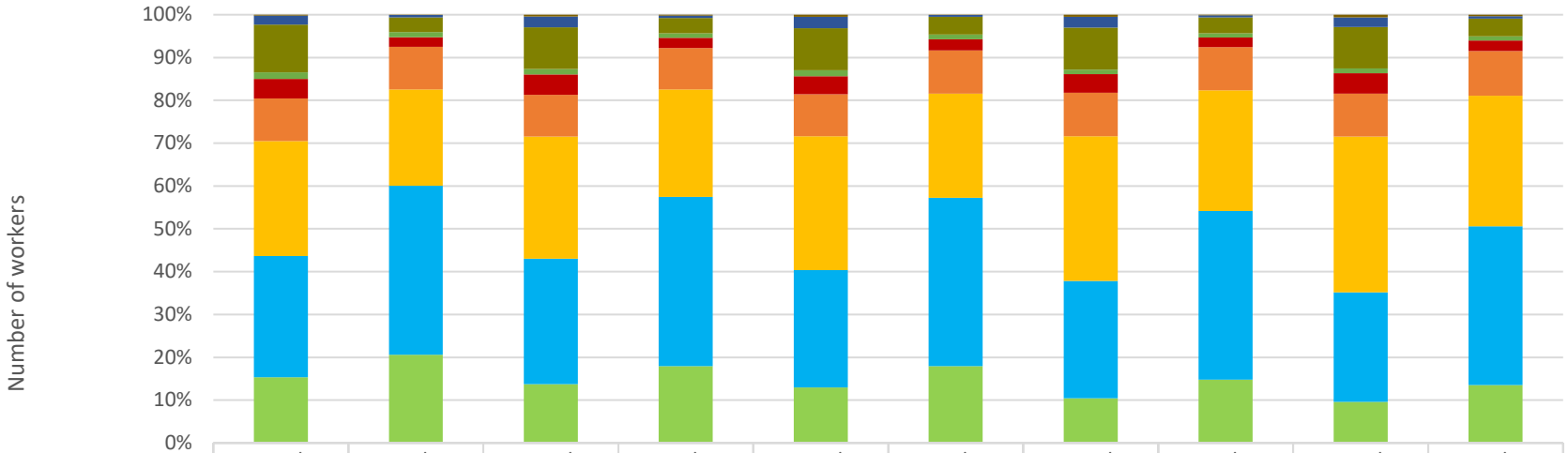
# NZ Qualification Levels:
# Red Meat & Wool Production (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 850 | 2,000 | 750 | 1,800 | 710 | 1,600 | 840 | 1,700 | 880 | 1,700 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | - | 3 | - | 6 | - | - | - | 6 | - | 9 |
| Level 8 Post Grad/Honours | 25 | 30 | 18 | 25 | 20 | 25 | 30 | 20 | 30 | 30 |
| Level 7 Degree | 160 | 220 | 190 | 240 | 190 | 230 | 190 | 230 | 190 | 240 |
| Level 6 Diploma | 12 | 90 | 12 | 90 | 18 | 85 | 20 | 95 | 20 | 90 |
| Level 5 Diploma | 120 | 200 | 120 | 180 | 110 | 190 | 110 | 180 | 120 | 180 |
| Level 4 Cert | 170 | 670 | 170 | 610 | 160 | 610 | 170 | 660 | 180 | 580 |
| Level 3 Cert | 770 | 1,700 | 820 | 1,800 | 750 | 1,700 | 770 | 1,700 | 770 | 1,600 |
| Level 2 Cert | 570 | 1,600 | 530 | 1,600 | 520 | 1,600 | 530 | 1,400 | 520 | 1,400 |
| Level 1 Cert | 300 | 630 | 330 | 610 | 290 | 550 | 280 | 570 | 300 | 550 |

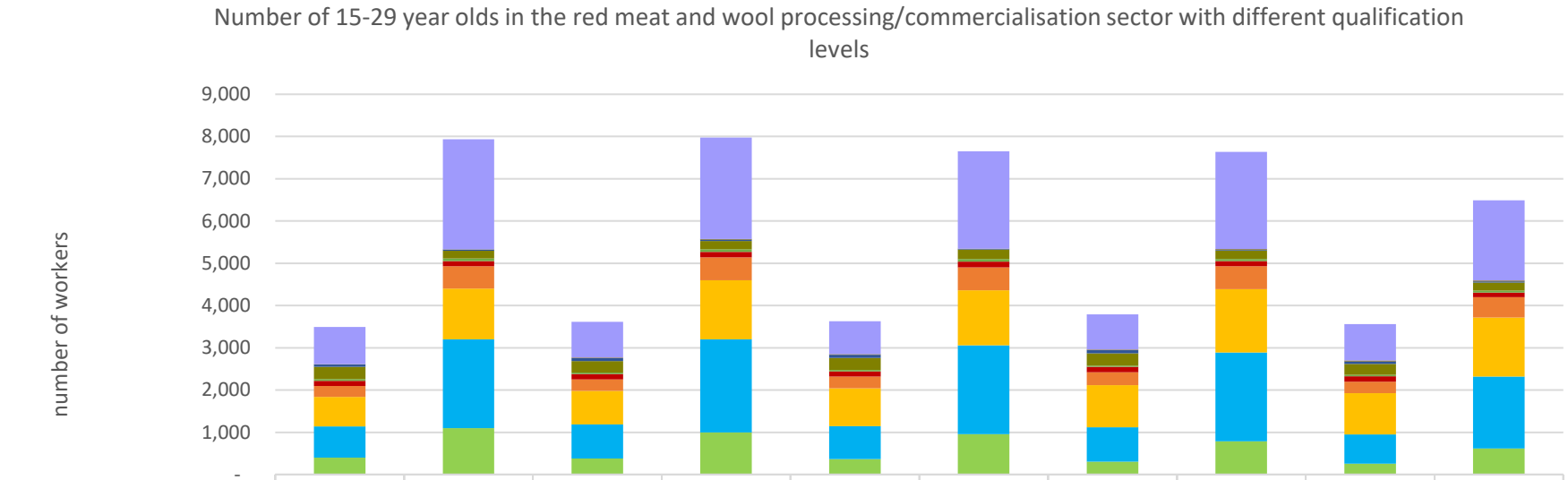
# NZ Qualification Levels:
# Red Meat & Wool Processing/Commercialisation (proportion)

Proportion of 15-29 year olds in the red meat and wool processing/commercialisation sector with different qualification levels



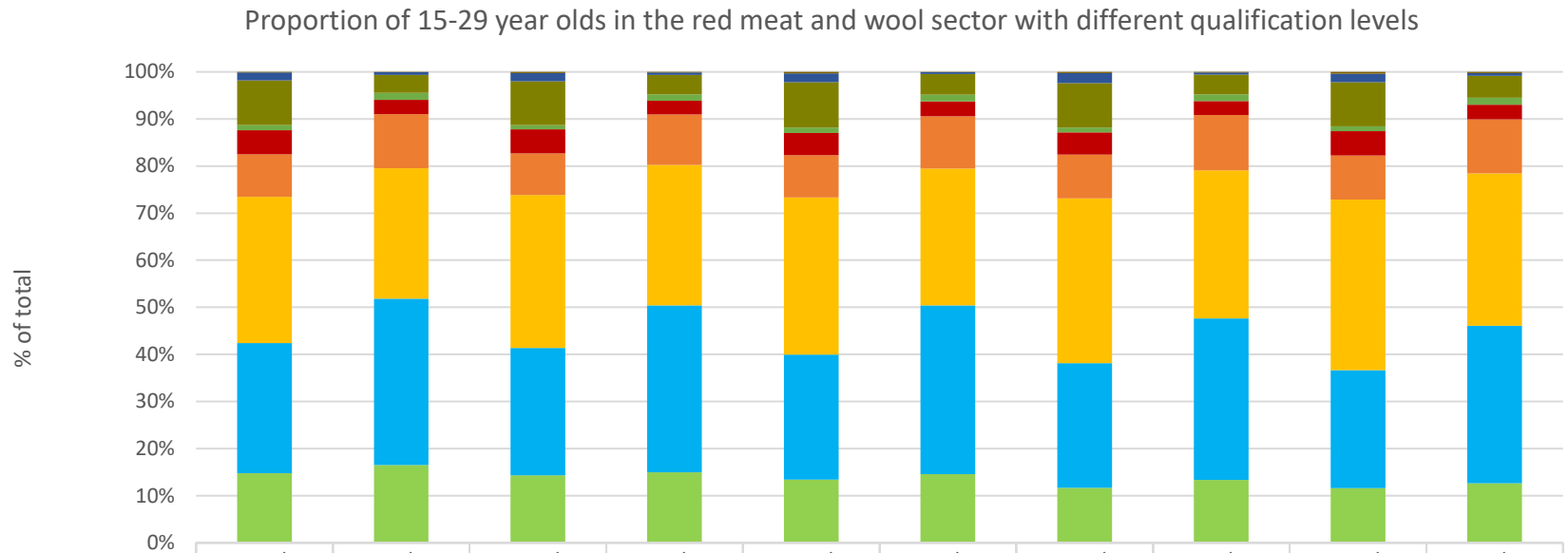

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 1% | 0% | 1% | 0% | 1% | 0% |
| Level 8 Post Grad/Honours | 2% | 1% | 3% | 1% | 3% | 0% | 3% | 0% | 2% | 1% |
| Level 7 Degree | 11% | 3% | 10% | 4% | 10% | 4% | 10% | 4% | 10% | 4% |
| Level 6 Diploma | 2% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% |
| Level 5 Diploma | 5% | 2% | 5% | 2% | 4% | 3% | 4% | 2% | 5% | 2% |
| Level 4 Cert | 10% | 10% | 10% | 10% | 10% | 10% | 10% | 10% | 10% | 10% |
| Level 3 Cert | 27% | 23% | 29% | 25% | 31% | 24% | 34% | 28% | 36% | 31% |
| Level 2 Cert | 28% | 39% | 29% | 39% | 27% | 39% | 27% | 39% | 26% | 37% |
| Level 1 Cert | 15% | 21% | 14% | 18% | 13% | 18% | 10% | 15% | 10% | 14% |

# NZ Qualification Levels:
# Red Meat & Wool Processing/Commercialisation (count)



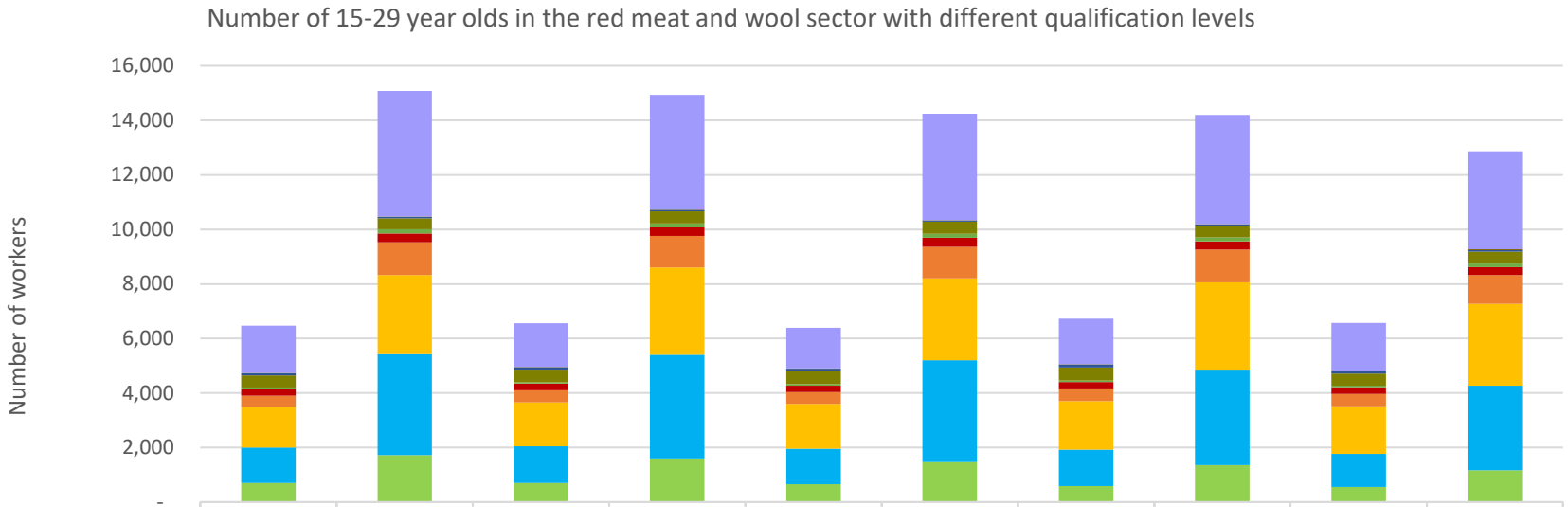

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 880 | 2,600 | 850 | 2,400 | 780 | 2,300 | 830 | 2,300 | 860 | 1,900 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 6 | 6 | 12 | 12 | 15 | 6 | 15 | 9 | 18 | 18 |
| Level 8 Post Grad/Honours | 55 | 30 | 70 | 30 | 75 | 20 | 75 | 25 | 60 | 25 |
| Level 7 Degree | 290 | 180 | 270 | 200 | 280 | 220 | 290 | 200 | 260 | 190 |
| Level 6 Diploma | 40 | 65 | 35 | 60 | 40 | 60 | 30 | 50 | 30 | 45 |
| Level 5 Diploma | 120 | 120 | 130 | 130 | 120 | 140 | 130 | 120 | 130 | 110 |
| Level 4 Cert | 260 | 530 | 270 | 540 | 280 | 540 | 300 | 540 | 270 | 480 |
| Level 3 Cert | 700 | 1,200 | 790 | 1,400 | 890 | 1,300 | 1,000 | 1,500 | 980 | 1,400 |
| Level 2 Cert | 740 | 2,100 | 810 | 2,200 | 780 | 2,100 | 810 | 2,100 | 690 | 1,700 |
| Level 1 Cert | 400 | 1,100 | 380 | 1,000 | 370 | 960 | 310 | 790 | 260 | 620 |

# NZ Qualification Levels: Red Meat & Wool Total (proportion)



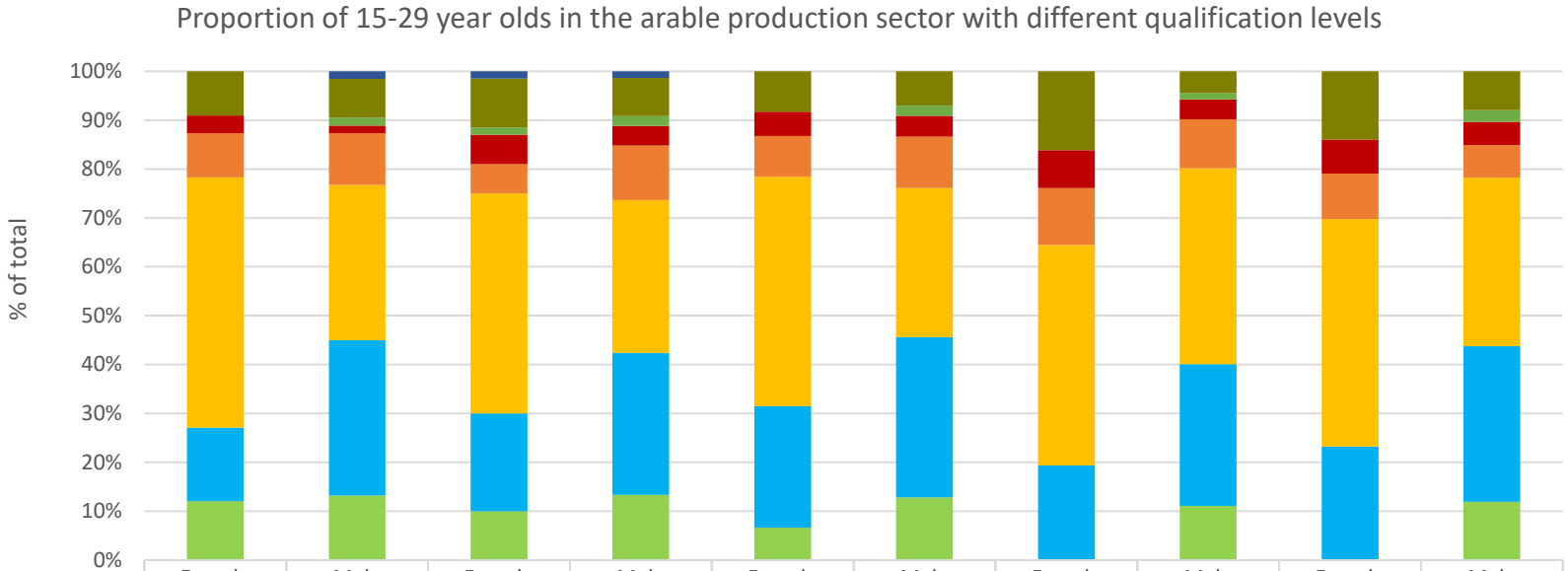

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0.1% | 0.1% | 0.2% | 0.2% | 0.3% | 0.1% | 0.3% | 0.1% | 0.4% | 0.3% |
| Level 8 Post Grad/Honours | 2% | 1% | 2% | 1% | 2% | 0% | 2% | 0% | 2% | 1% |
| Level 7 Degree | 9% | 4% | 9% | 4% | 10% | 4% | 9% | 4% | 9% | 5% |
| Level 6 Diploma | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% |
| Level 5 Diploma | 5% | 3% | 5% | 3% | 5% | 3% | 5% | 3% | 5% | 3% |
| Level 4 Cert | 9% | 11% | 9% | 11% | 9% | 11% | 9% | 12% | 9% | 11% |
| Level 3 Cert | 31% | 28% | 32% | 30% | 33% | 29% | 35% | 31% | 36% | 32% |
| Level 2 Cert | 28% | 35% | 27% | 35% | 26% | 36% | 26% | 34% | 25% | 33% |
| Level 1 Cert | 15% | 17% | 14% | 15% | 13% | 15% | 12% | 13% | 12% | 13% |

# NZ Qualification Levels:
# Red Meat & Wool Total (count)



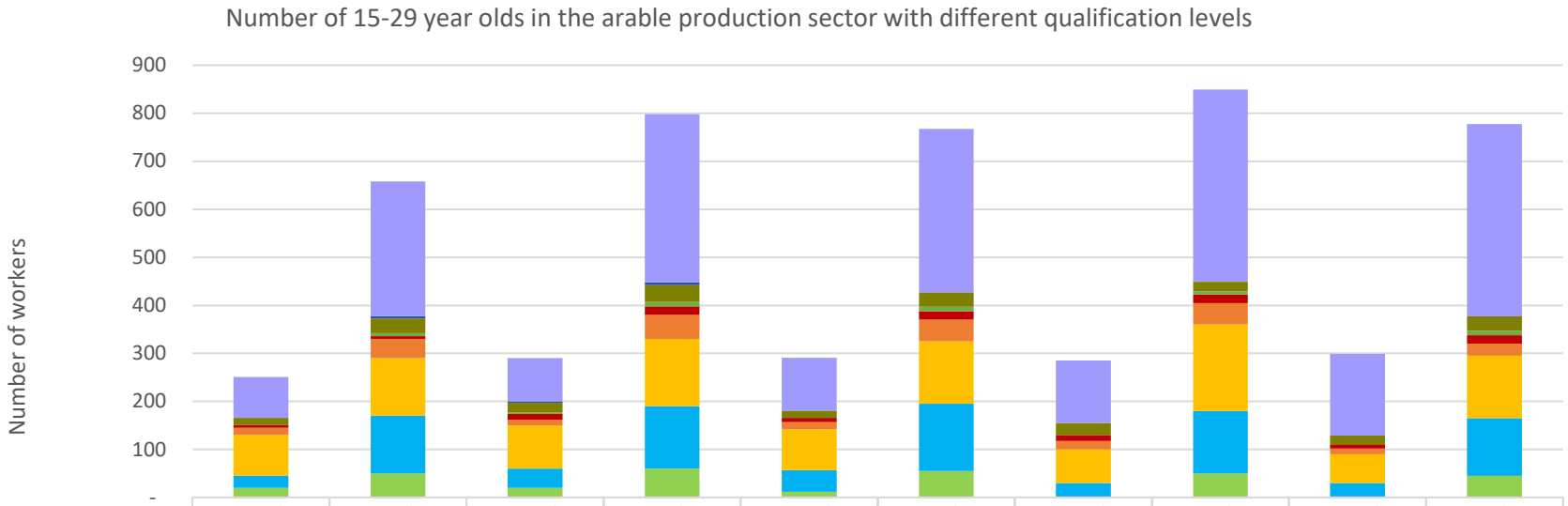

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,730 | 4,600 | 1,600 | 4,200 | 1,490 | 3,900 | 1,670 | 4,000 | 1,740 | 3,600 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 6 | 9 | 12 | 18 | 15 | 6 | 15 | 15 | 18 | 27 |
| Level 8 Post Grad/Honours | 80 | 60 | 88 | 55 | 95 | 45 | 105 | 45 | 90 | 55 |
| Level 7 Degree | 450 | 400 | 460 | 440 | 470 | 450 | 480 | 430 | 450 | 430 |
| Level 6 Diploma | 52 | 155 | 47 | 150 | 58 | 145 | 50 | 145 | 50 | 135 |
| Level 5 Diploma | 240 | 320 | 250 | 310 | 230 | 330 | 240 | 300 | 250 | 290 |
| Level 4 Cert | 430 | 1,200 | 440 | 1,150 | 440 | 1,150 | 470 | 1,200 | 450 | 1,060 |
| Level 3 Cert | 1,470 | 2,900 | 1,610 | 3,200 | 1,640 | 3,000 | 1,770 | 3,200 | 1,750 | 3,000 |
| Level 2 Cert | 1,310 | 3,700 | 1,340 | 3,800 | 1,300 | 3,700 | 1,340 | 3,500 | 1,210 | 3,100 |
| Level 1 Cert | 700 | 1,730 | 710 | 1,610 | 660 | 1,510 | 590 | 1,360 | 560 | 1,170 |

# NZ Qualification Levels: Arable Production (proportion)



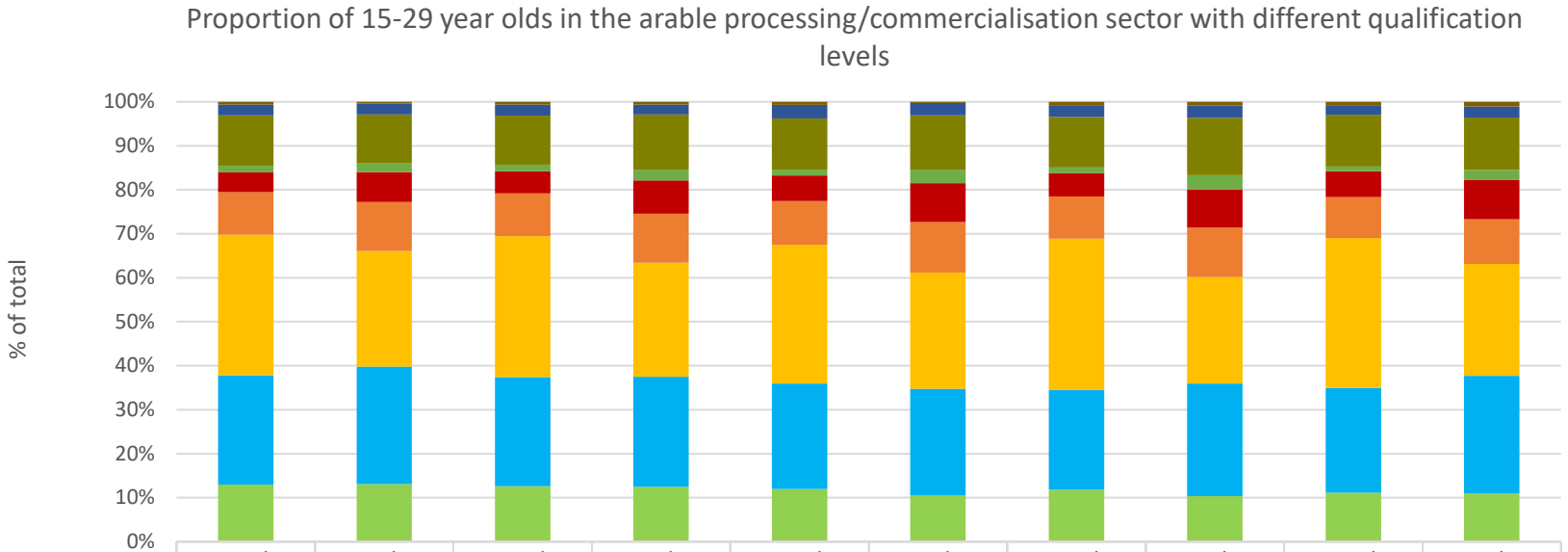

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 0% | 2% | 2% | 1% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 7 Degree | 9% | 8% | 10% | 8% | 8% | 7% | 16% | 4% | 14% | 8% |
| Level 6 Diploma | 0% | 2% | 2% | 2% | 0% | 2% | 0% | 1% | 0% | 2% |
| Level 5 Diploma | 4% | 2% | 6% | 4% | 5% | 4% | 8% | 4% | 7% | 5% |
| Level 4 Cert | 9% | 11% | 6% | 11% | 8% | 11% | 12% | 10% | 9% | 7% |
| Level 3 Cert | 51% | 32% | 45% | 31% | 47% | 30% | 45% | 40% | 47% | 34% |
| Level 2 Cert | 15% | 32% | 20% | 29% | 25% | 33% | 19% | 29% | 23% | 32% |
| Level 1 Cert | 12% | 13% | 10% | 13% | 7% | 13% | 0% | 11% | 0% | 12% |

# NZ Qualification Levels: Arable Production (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 85 | 280 | 90 | 350 | 110 | 340 | 130 | 400 | 170 | 400 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | - | - | - | - | - | - | - | - | - | - |
| Level 8 Post Grad/Honours | - | 6 | 3 | 6 | - | - | - | - | - | - |
| Level 7 Degree | 15 | 30 | 20 | 35 | 15 | 30 | 25 | 20 | 18 | 30 |
| Level 6 Diploma | - | 6 | 3 | 9 | - | 9 | - | 6 | - | 9 |
| Level 5 Diploma | 6 | 6 | 12 | 18 | 9 | 18 | 12 | 18 | 9 | 18 |
| Level 4 Cert | 15 | 40 | 12 | 50 | 15 | 45 | 18 | 45 | 12 | 25 |
| Level 3 Cert | 85 | 120 | 90 | 140 | 85 | 130 | 70 | 180 | 60 | 130 |
| Level 2 Cert | 25 | 120 | 40 | 130 | 45 | 140 | 30 | 130 | 30 | 120 |
| Level 1 Cert | 20 | 50 | 20 | 60 | 12 | 55 | - | 50 | - | 45 |

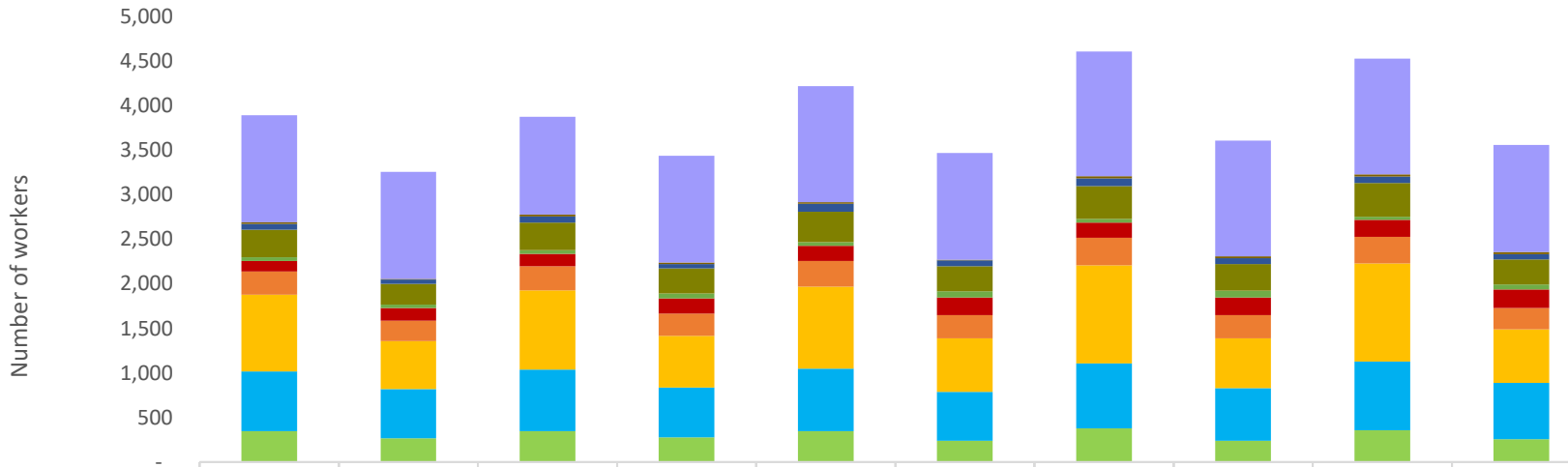
# NZ Qualification Levels: Arable Processing/Commercialisation (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 0% | 1% | 1% | 1% | 0% | 1% | 1% | 1% | 1% |
| Level 8 Post Grad/Honours | 2% | 2% | 3% | 2% | 3% | 3% | 3% | 3% | 2% | 3% |
| Level 7 Degree | 12% | 11% | 11% | 13% | 12% | 12% | 12% | 13% | 12% | 12% |
| Level 6 Diploma | 1% | 2% | 1% | 2% | 1% | 3% | 1% | 3% | 1% | 2% |
| Level 5 Diploma | 4% | 7% | 5% | 8% | 6% | 9% | 5% | 9% | 6% | 9% |
| Level 4 Cert | 10% | 11% | 10% | 11% | 10% | 11% | 10% | 11% | 9% | 10% |
| Level 3 Cert | 32% | 26% | 32% | 26% | 32% | 26% | 34% | 24% | 34% | 25% |
| Level 2 Cert | 25% | 27% | 25% | 25% | 24% | 24% | 23% | 26% | 24% | 27% |
| Level 1 Cert | 13% | 13% | 13% | 13% | 12% | 11% | 12% | 10% | 11% | 11% |

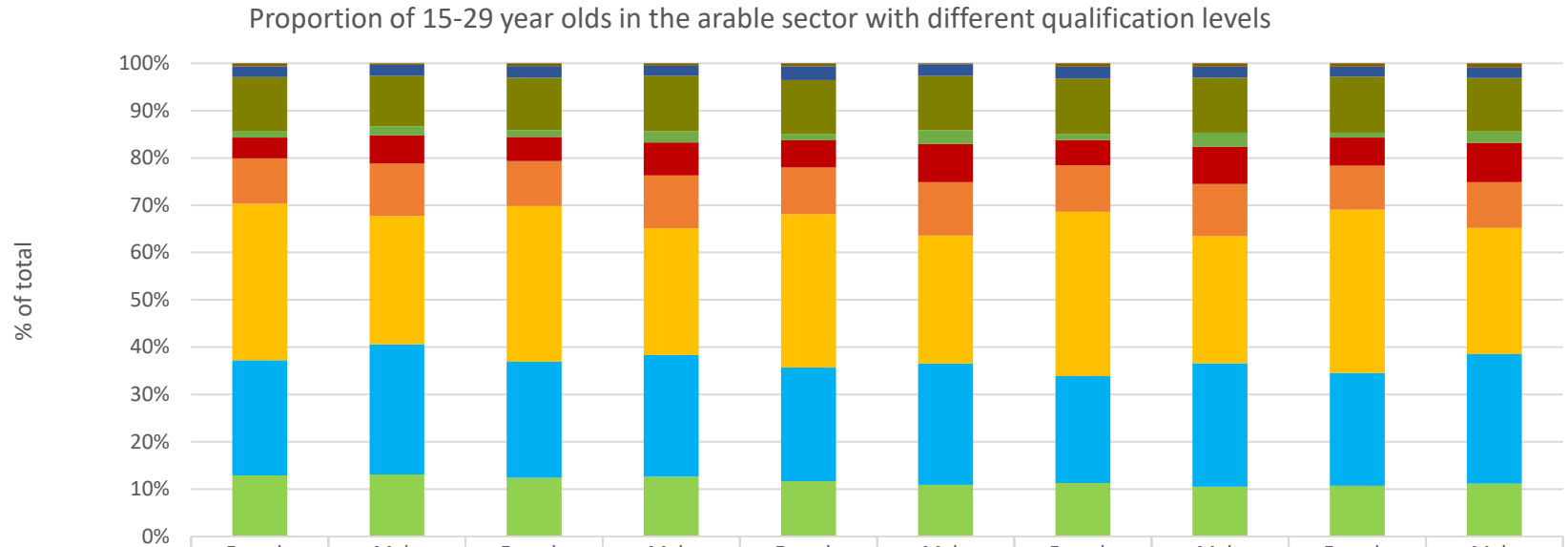
# NZ Qualification Levels: Arable Processing/Commercialisation (count)

Number of 15-29 year olds in the arable processing/commercialisation sector with different qualification levels



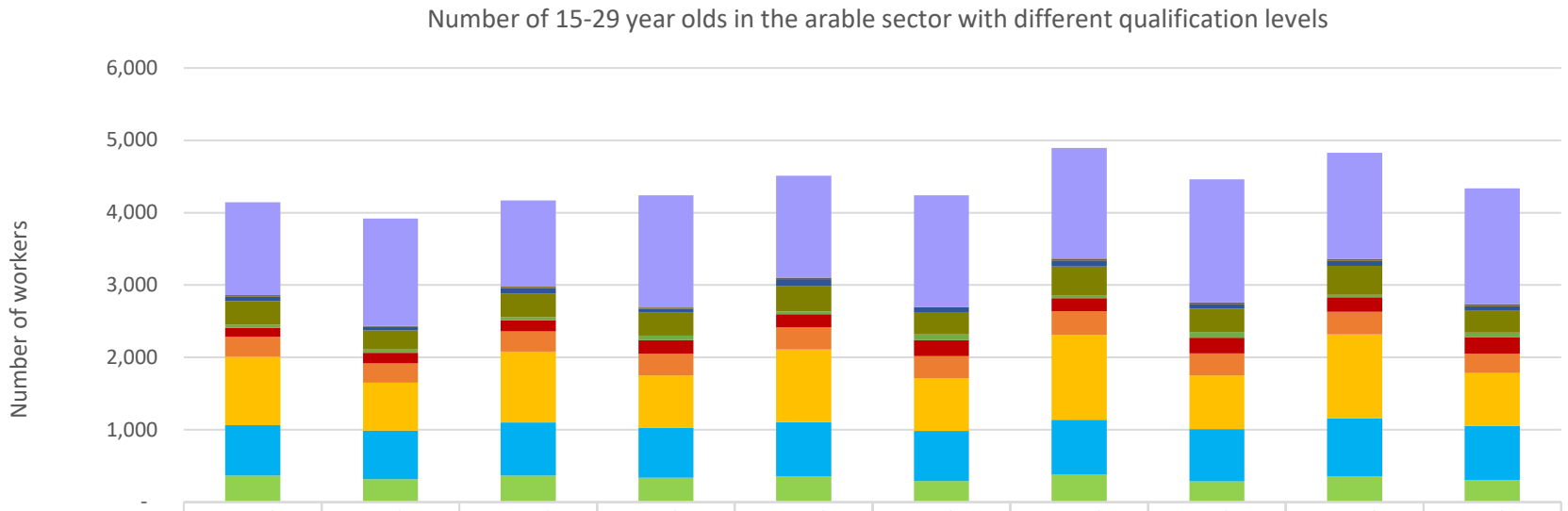

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,200 | 1,200 | 1,100 | 1,200 | 1,300 | 1,200 | 1,400 | 1,300 | 1,300 | 1,200 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 18 | 9 | 18 | 15 | 20 | 6 | 25 | 20 | 25 | 25 |
| Level 8 Post Grad/Honours | 65 | 50 | 70 | 50 | 90 | 65 | 85 | 65 | 70 | 60 |
| Level 7 Degree | 310 | 230 | 310 | 280 | 340 | 280 | 370 | 300 | 380 | 280 |
| Level 6 Diploma | 40 | 40 | 40 | 55 | 40 | 70 | 40 | 75 | 35 | 55 |
| Level 5 Diploma | 120 | 140 | 140 | 170 | 170 | 200 | 170 | 200 | 190 | 210 |
| Level 4 Cert | 260 | 230 | 270 | 250 | 290 | 260 | 310 | 260 | 300 | 240 |
| Level 3 Cert | 860 | 540 | 890 | 580 | 920 | 600 | 1,100 | 560 | 1,100 | 600 |
| Level 2 Cert | 670 | 550 | 690 | 560 | 700 | 550 | 730 | 590 | 770 | 630 |
| Level 1 Cert | 350 | 270 | 350 | 280 | 350 | 240 | 380 | 240 | 360 | 260 |

# NZ Qualification Levels: Arable Total (proportion)



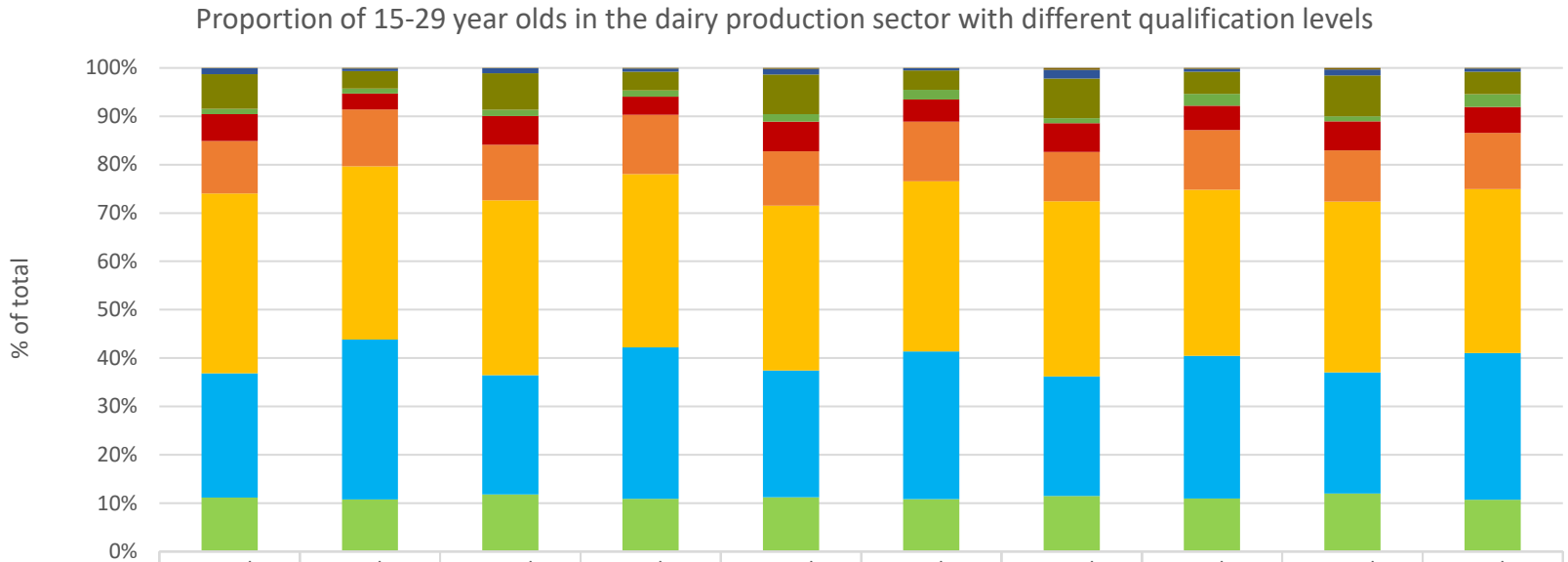

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 0% | 1% | 1% | 1% | 0% | 1% | 1% | 1% | 1% |
| Level 8 Post Grad/Honours | 2% | 2% | 2% | 2% | 3% | 2% | 3% | 2% | 2% | 2% |
| Level 7 Degree | 11% | 11% | 11% | 12% | 11% | 11% | 12% | 12% | 12% | 11% |
| Level 6 Diploma | 1% | 2% | 1% | 2% | 1% | 3% | 1% | 3% | 1% | 2% |
| Level 5 Diploma | 4% | 6% | 5% | 7% | 6% | 8% | 5% | 8% | 6% | 8% |
| Level 4 Cert | 10% | 11% | 9% | 11% | 10% | 11% | 10% | 11% | 9% | 10% |
| Level 3 Cert | 33% | 27% | 33% | 27% | 32% | 27% | 35% | 27% | 35% | 27% |
| Level 2 Cert | 24% | 27% | 25% | 26% | 24% | 26% | 23% | 26% | 24% | 27% |
| Level 1 Cert | 13% | 13% | 12% | 13% | 12% | 11% | 11% | 11% | 11% | 11% |

# NZ Qualification Levels: Arable Total (count)



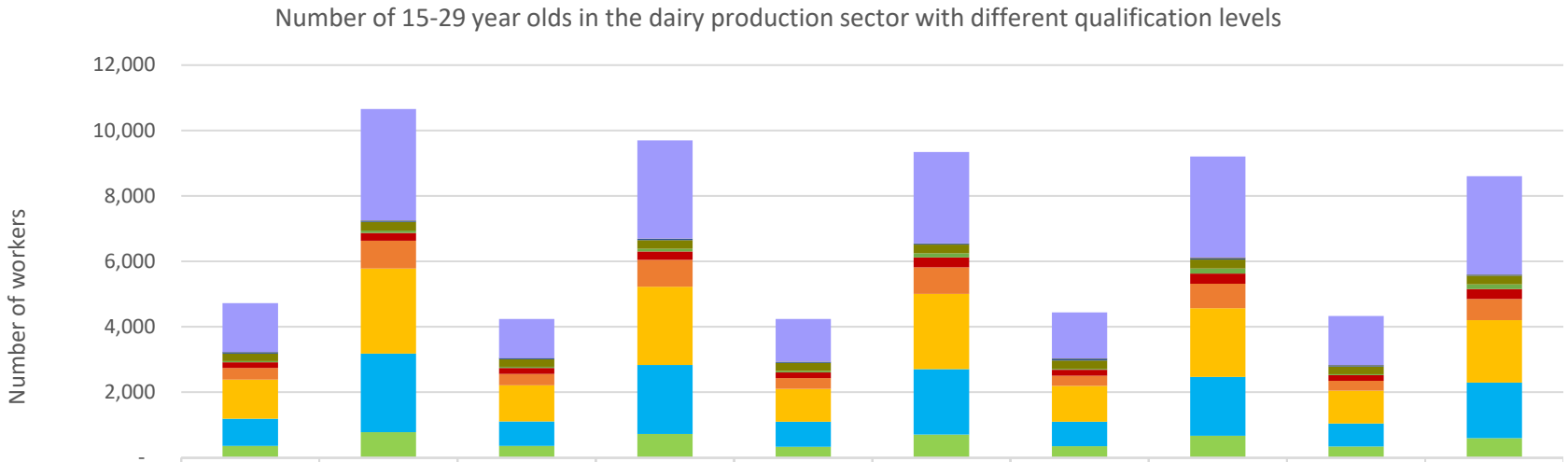

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,285 | 1,480 | 1,190 | 1,550 | 1,410 | 1,540 | 1,530 | 1,700 | 1,470 | 1,600 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 18 | 9 | 18 | 15 | 20 | 6 | 25 | 20 | 25 | 25 |
| Level 8 Post Grad/Honours | 65 | 56 | 73 | 56 | 90 | 65 | 85 | 65 | 70 | 60 |
| Level 7 Degree | 325 | 260 | 330 | 315 | 355 | 310 | 395 | 320 | 398 | 310 |
| Level 6 Diploma | 40 | 46 | 43 | 64 | 40 | 79 | 40 | 81 | 35 | 64 |
| Level 5 Diploma | 126 | 146 | 152 | 188 | 179 | 218 | 182 | 218 | 199 | 228 |
| Level 4 Cert | 275 | 270 | 282 | 300 | 305 | 305 | 328 | 305 | 312 | 265 |
| Level 3 Cert | 945 | 660 | 980 | 720 | 1,005 | 730 | 1,170 | 740 | 1,160 | 730 |
| Level 2 Cert | 695 | 670 | 730 | 690 | 745 | 690 | 760 | 720 | 800 | 750 |
| Level 1 Cert | 370 | 320 | 370 | 340 | 362 | 295 | 380 | 290 | 360 | 305 |

# NZ Qualification Levels: Dairy Production (proportion)



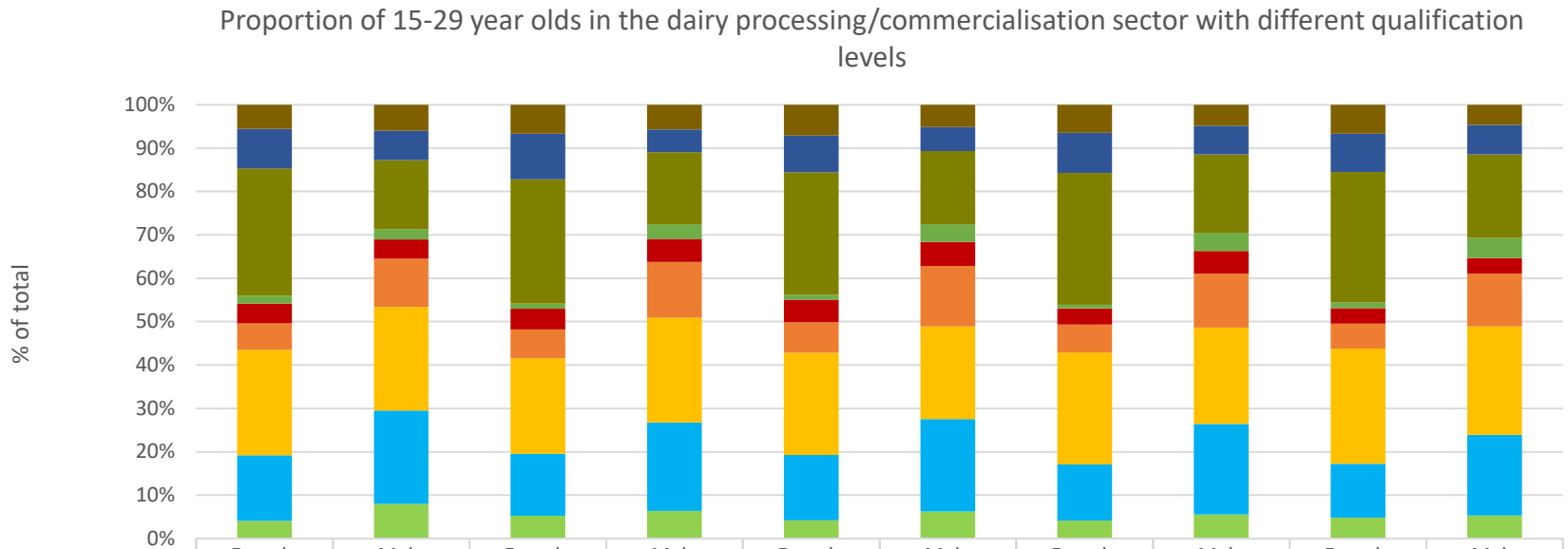

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 1% | 1% | 1% | 1% | 1% | 0% | 2% | 1% | 1% | 1% |
| Level 7 Degree | 7% | 4% | 8% | 4% | 8% | 4% | 8% | 5% | 8% | 5% |
| Level 6 Diploma | 1% | 1% | 1% | 1% | 2% | 2% | 1% | 2% | 1% | 3% |
| Level 5 Diploma | 6% | 3% | 6% | 4% | 6% | 5% | 6% | 5% | 6% | 5% |
| Level 4 Cert | 11% | 12% | 12% | 12% | 11% | 12% | 10% | 12% | 11% | 12% |
| Level 3 Cert | 37% | 36% | 36% | 36% | 34% | 35% | 36% | 34% | 35% | 34% |
| Level 2 Cert | 26% | 33% | 25% | 31% | 26% | 31% | 25% | 29% | 25% | 30% |
| Level 1 Cert | 11% | 11% | 12% | 11% | 11% | 11% | 12% | 11% | 12% | 11% |

# NZ Qualification Levels: Dairy Production (count)



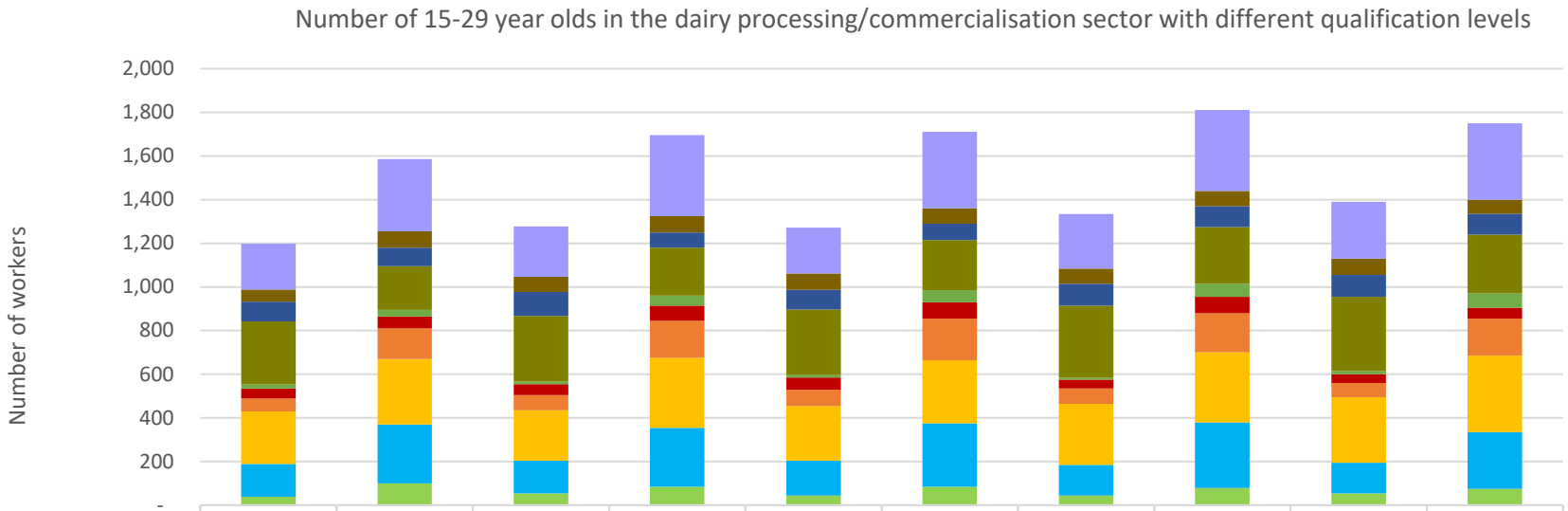

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,500 | 3,400 | 1,200 | 3,000 | 1,300 | 2,800 | 1,400 | 3,100 | 1,500 | 3,000 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 3 | 9 | 3 | 9 | 6 | 6 | 12 | 12 | 9 | 9 |
| Level 8 Post Grad/Honours | 40 | 40 | 30 | 45 | 35 | 30 | 55 | 35 | 35 | 35 |
| Level 7 Degree | 230 | 260 | 230 | 260 | 240 | 260 | 250 | 280 | 240 | 260 |
| Level 6 Diploma | 35 | 75 | 40 | 85 | 45 | 130 | 30 | 150 | 30 | 150 |
| Level 5 Diploma | 180 | 240 | 180 | 250 | 180 | 300 | 180 | 310 | 170 | 300 |
| Level 4 Cert | 350 | 850 | 350 | 820 | 330 | 810 | 310 | 750 | 300 | 650 |
| Level 3 Cert | 1,200 | 2,600 | 1,100 | 2,400 | 1,000 | 2,300 | 1,100 | 2,100 | 1,000 | 1,900 |
| Level 2 Cert | 830 | 2,400 | 750 | 2,100 | 770 | 2,000 | 750 | 1,800 | 710 | 1,700 |
| Level 1 Cert | 360 | 780 | 360 | 730 | 330 | 710 | 350 | 670 | 340 | 600 |

# NZ Qualification Levels: Dairy Processing/Commercialisation (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 6% | 6% | 7% | 6% | 7% | 5% | 6% | 5% | 7% | 5% |
| Level 8 Post Grad/Honours | 9% | 7% | 11% | 5% | 8% | 6% | 9% | 7% | 9% | 7% |
| Level 7 Degree | 29% | 16% | 29% | 17% | 28% | 17% | 30% | 18% | 30% | 19% |
| Level 6 Diploma | 2% | 2% | 1% | 3% | 1% | 4% | 1% | 4% | 1% | 5% |
| Level 5 Diploma | 5% | 4% | 5% | 5% | 5% | 6% | 4% | 5% | 4% | 4% |
| Level 4 Cert | 6% | 11% | 7% | 13% | 7% | 14% | 6% | 13% | 6% | 12% |
| Level 3 Cert | 24% | 24% | 22% | 24% | 24% | 21% | 26% | 22% | 27% | 25% |
| Level 2 Cert | 15% | 22% | 14% | 20% | 15% | 21% | 13% | 21% | 12% | 19% |
| Level 1 Cert | 4% | 8% | 5% | 6% | 4% | 6% | 4% | 6% | 5% | 5% |

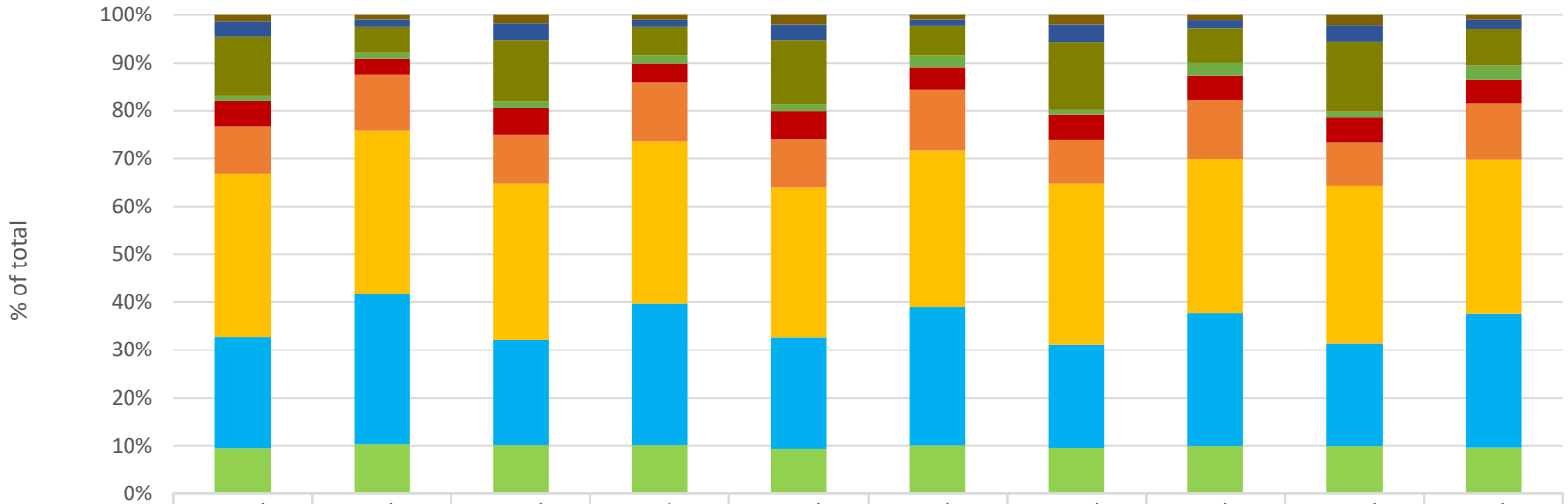
# NZ Qualification Levels: Dairy Processing/Commercialisation (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 210 | 330 | 230 | 370 | 210 | 350 | 250 | 370 | 260 | 350 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 55 | 75 | 70 | 75 | 75 | 70 | 70 | 70 | 75 | 65 |
| Level 8 Post Grad/Honours | 90 | 85 | 110 | 70 | 90 | 75 | 100 | 95 | 100 | 95 |
| Level 7 Degree | 290 | 200 | 300 | 220 | 300 | 230 | 330 | 260 | 340 | 270 |
| Level 6 Diploma | 18 | 30 | 12 | 45 | 12 | 55 | 9 | 60 | 15 | 65 |
| Level 5 Diploma | 45 | 55 | 50 | 70 | 55 | 75 | 40 | 75 | 40 | 50 |
| Level 4 Cert | 60 | 140 | 70 | 170 | 75 | 190 | 70 | 180 | 65 | 170 |
| Level 3 Cert | 240 | 300 | 230 | 320 | 250 | 290 | 280 | 320 | 300 | 350 |
| Level 2 Cert | 150 | 270 | 150 | 270 | 160 | 290 | 140 | 300 | 140 | 260 |
| Level 1 Cert | 40 | 100 | 55 | 85 | 45 | 85 | 45 | 80 | 55 | 75 |

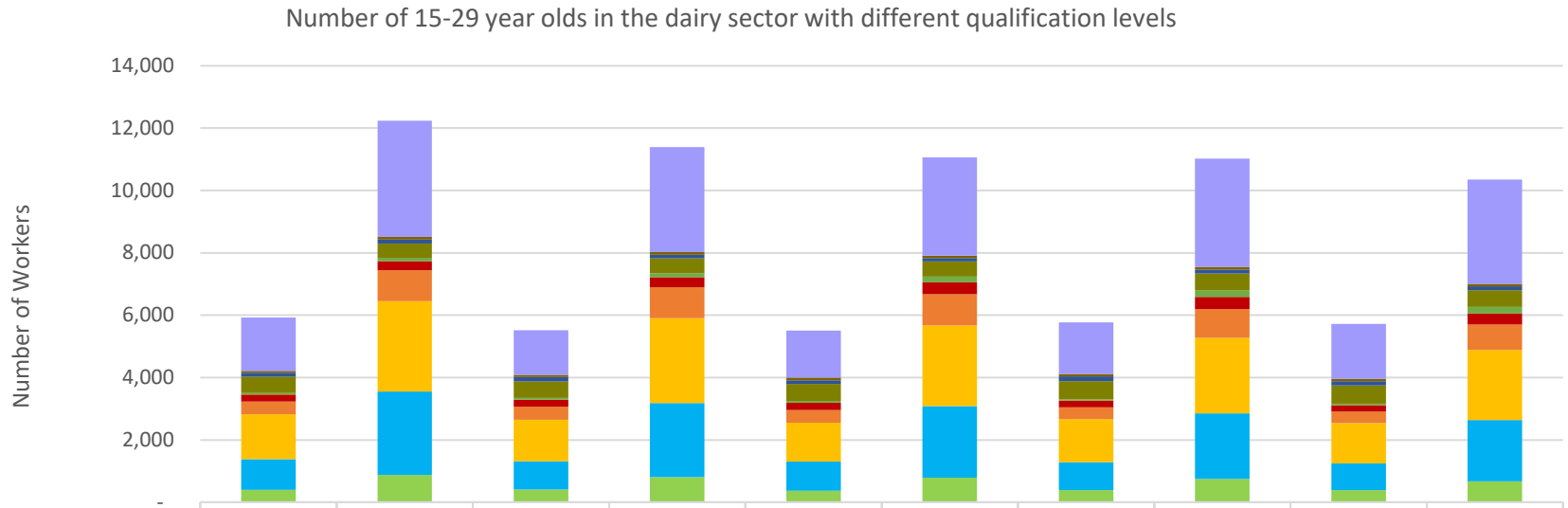
# NZ Qualification Levels: Dairy Total (proportion)

Proportion of 15-29 year olds in the dairy sector with different qualification levels



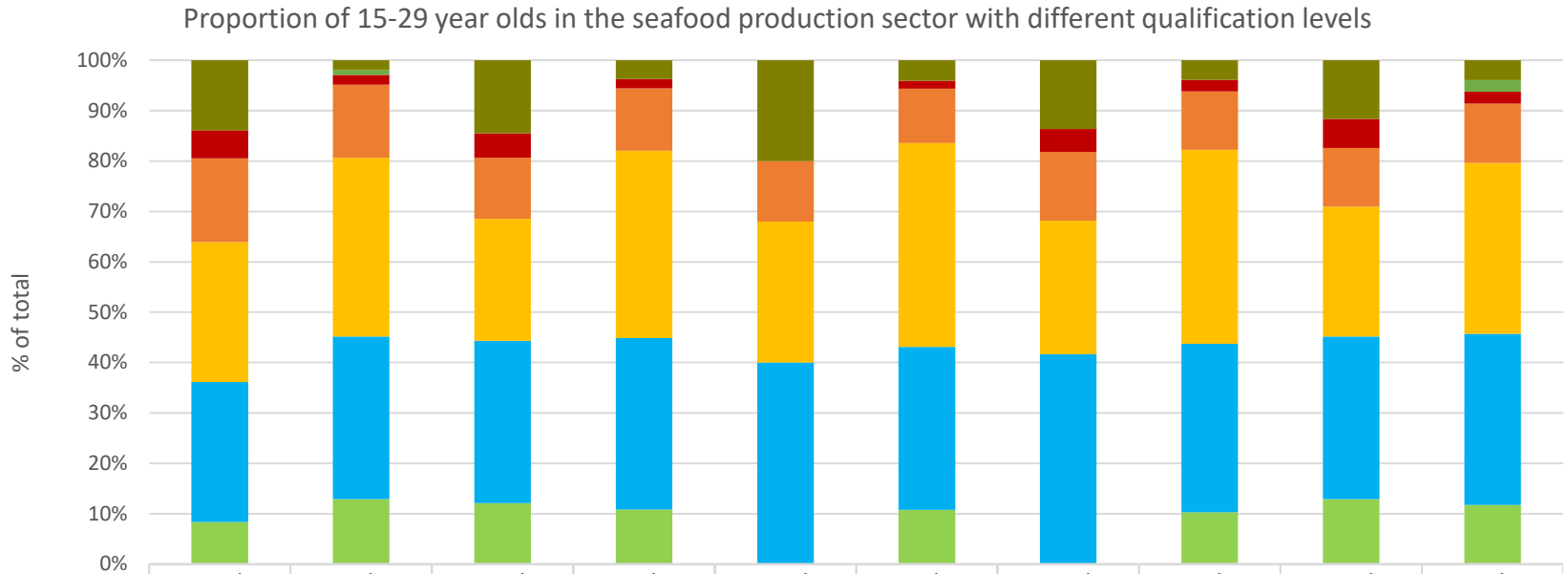

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% |
| Level 8 Post Grad/Honours | 3% | 1% | 3% | 1% | 3% | 1% | 4% | 2% | 3% | 2% |
| Level 7 Degree | 12% | 5% | 13% | 6% | 14% | 6% | 14% | 7% | 15% | 8% |
| Level 6 Diploma | 1% | 1% | 1% | 2% | 1% | 2% | 1% | 3% | 1% | 3% |
| Level 5 Diploma | 5% | 3% | 6% | 4% | 6% | 5% | 5% | 5% | 5% | 5% |
| Level 4 Cert | 10% | 12% | 10% | 12% | 10% | 13% | 9% | 12% | 9% | 12% |
| Level 3 Cert | 34% | 34% | 33% | 34% | 31% | 33% | 33% | 32% | 33% | 32% |
| Level 2 Cert | 23% | 31% | 22% | 30% | 23% | 29% | 22% | 28% | 21% | 28% |
| Level 1 Cert | 9% | 10% | 10% | 10% | 9% | 10% | 10% | 10% | 10% | 10% |

# NZ Qualification Levels: Dairy Total (count)



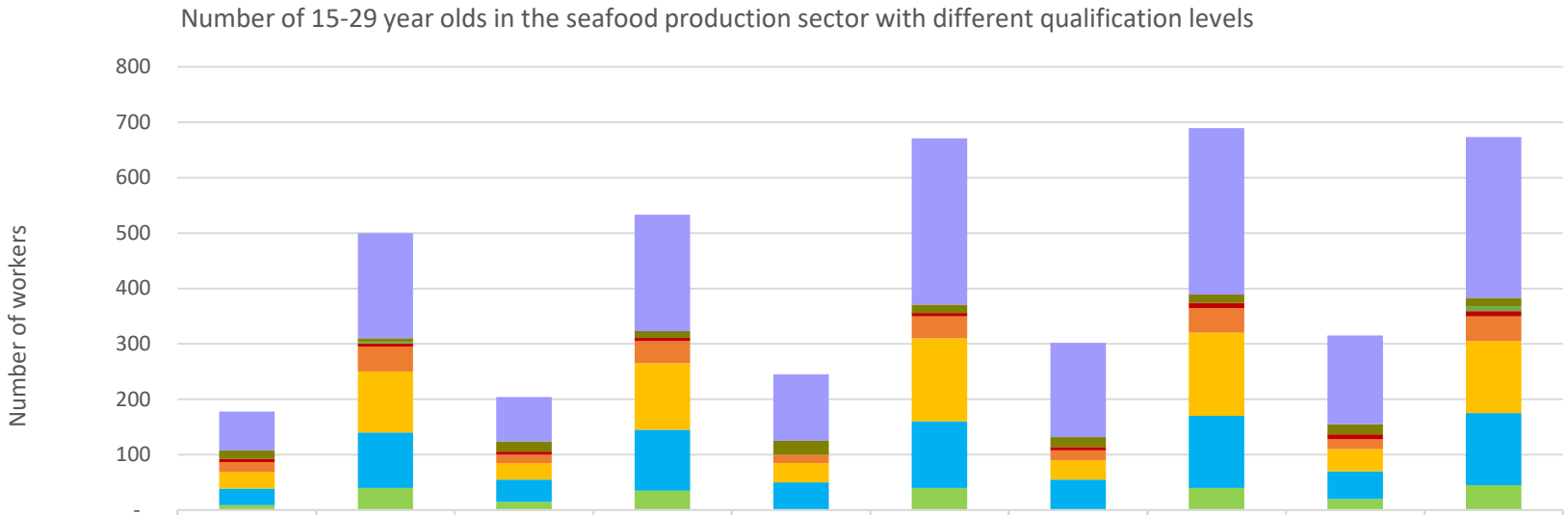

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 1,710 | 3,730 | 1,430 | 3,370 | 1,510 | 3,150 | 1,650 | 3,470 | 1,760 | 3,350 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 58 | 84 | 73 | 84 | 81 | 76 | 82 | 82 | 84 | 74 |
| Level 8 Post Grad/Honours | 130 | 125 | 140 | 115 | 125 | 105 | 155 | 130 | 135 | 130 |
| Level 7 Degree | 520 | 460 | 530 | 480 | 540 | 490 | 580 | 540 | 580 | 530 |
| Level 6 Diploma | 53 | 105 | 52 | 130 | 57 | 185 | 39 | 210 | 45 | 215 |
| Level 5 Diploma | 225 | 295 | 230 | 320 | 235 | 375 | 220 | 385 | 210 | 350 |
| Level 4 Cert | 410 | 990 | 420 | 990 | 405 | 1,000 | 380 | 930 | 365 | 820 |
| Level 3 Cert | 1,440 | 2,900 | 1,330 | 2,720 | 1,250 | 2,590 | 1,380 | 2,420 | 1,300 | 2,250 |
| Level 2 Cert | 980 | 2,670 | 900 | 2,370 | 930 | 2,290 | 890 | 2,100 | 850 | 1,960 |
| Level 1 Cert | 400 | 880 | 415 | 815 | 375 | 795 | 395 | 750 | 395 | 675 |

# NZ Qualification Levels: Seafood Production (proportion)



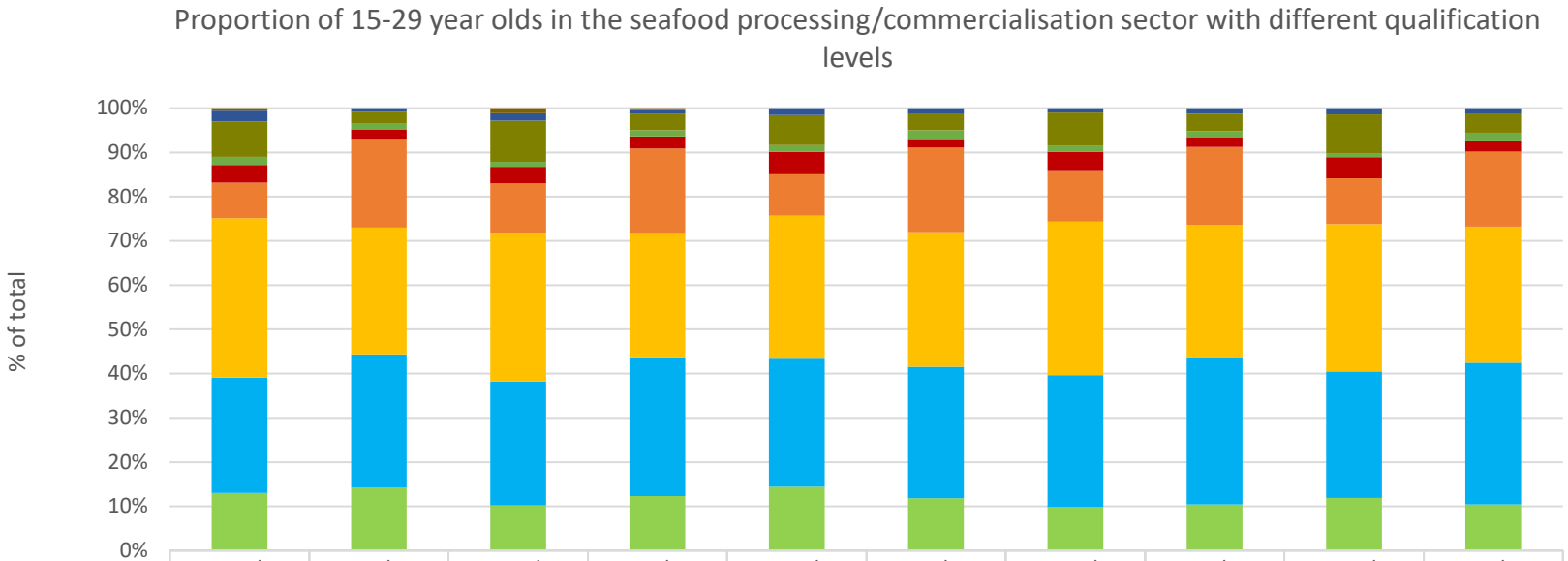

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 7 Degree | 14% | 2% | 15% | 4% | 20% | 4% | 14% | 4% | 12% | 4% |
| Level 6 Diploma | 0% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 2% |
| Level 5 Diploma | 6% | 2% | 5% | 2% | 0% | 2% | 5% | 2% | 6% | 2% |
| Level 4 Cert | 17% | 15% | 12% | 12% | 12% | 11% | 14% | 12% | 12% | 12% |
| Level 3 Cert | 28% | 35% | 24% | 37% | 28% | 40% | 27% | 39% | 26% | 34% |
| Level 2 Cert | 28% | 32% | 32% | 34% | 40% | 32% | 42% | 33% | 32% | 34% |
| Level 1 Cert | 8% | 13% | 12% | 11% | 0% | 11% | 0% | 10% | 13% | 12% |

# NZ Qualification Levels: Seafood Production (count)



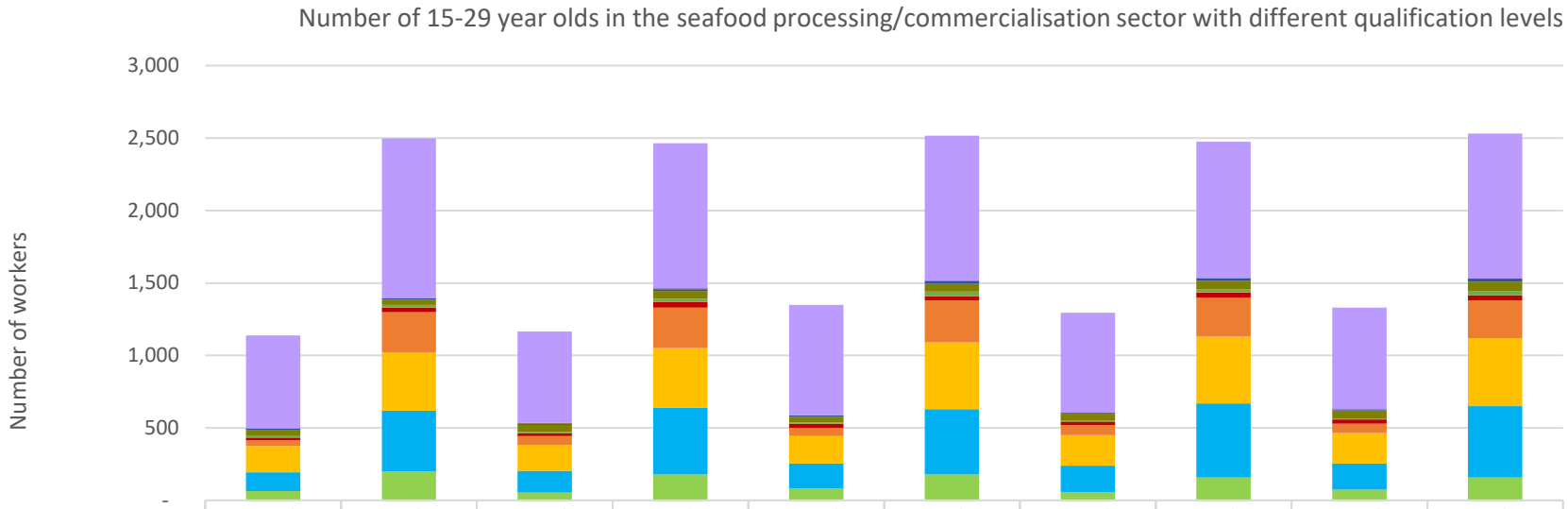

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 70 | 190 | 80 | 210 | 120 | 300 | 170 | 300 | 160 | 290 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | - | - | - | - | - | - | - | - | - | - |
| Level 8 Post Grad/Honours | - | - | - | - | - | - | - | - | - | - |
| Level 7 Degree | 15 | 6 | 18 | 12 | 25 | 15 | 18 | 15 | 18 | 15 |
| Level 6 Diploma | - | 3 | - | - | - | - | - | - | - | 9 |
| Level 5 Diploma | 6 | 6 | 6 | 6 | - | 6 | 6 | 9 | 9 | 9 |
| Level 4 Cert | 18 | 45 | 15 | 40 | 15 | 40 | 18 | 45 | 18 | 45 |
| Level 3 Cert | 30 | 110 | 30 | 120 | 35 | 150 | 35 | 150 | 40 | 130 |
| Level 2 Cert | 30 | 100 | 40 | 110 | 50 | 120 | 55 | 130 | 50 | 130 |
| Level 1 Cert | 9 | 40 | 15 | 35 | - | 40 | - | 40 | 20 | 45 |

# NZ Qualification Levels: Seafood Processing/Commercialisation (proportion)



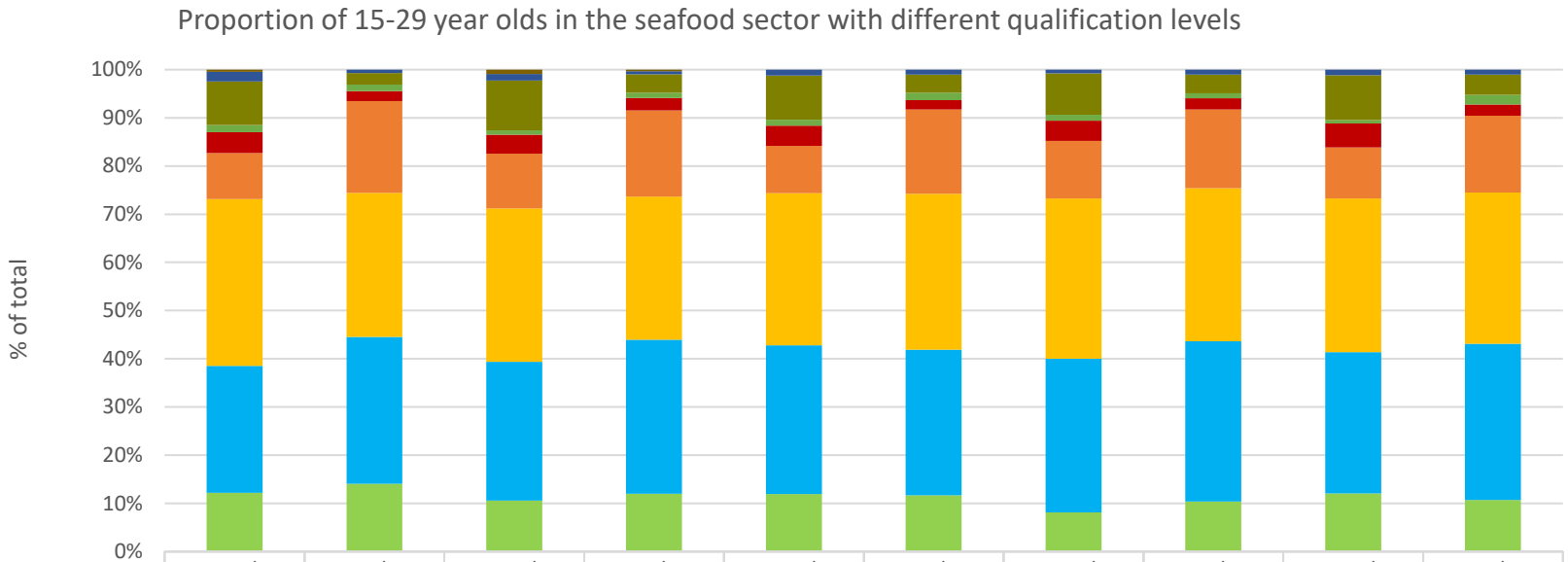

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 0% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 2% | 1% | 2% | 1% | 2% | 1% | 1% | 1% | 1% | 1% |
| Level 7 Degree | 8% | 3% | 9% | 4% | 7% | 4% | 7% | 4% | 9% | 4% |
| Level 6 Diploma | 2% | 1% | 1% | 1% | 2% | 2% | 1% | 1% | 1% | 2% |
| Level 5 Diploma | 4% | 2% | 4% | 3% | 5% | 2% | 4% | 2% | 5% | 2% |
| Level 4 Cert | 8% | 20% | 11% | 19% | 9% | 19% | 12% | 18% | 10% | 17% |
| Level 3 Cert | 36% | 29% | 34% | 28% | 32% | 30% | 35% | 30% | 33% | 31% |
| Level 2 Cert | 26% | 30% | 28% | 31% | 29% | 30% | 30% | 33% | 29% | 32% |
| Level 1 Cert | 13% | 14% | 10% | 12% | 14% | 12% | 10% | 10% | 12% | 10% |

# NZ Qualification Levels: Seafood Processing/Commercialisation (count)



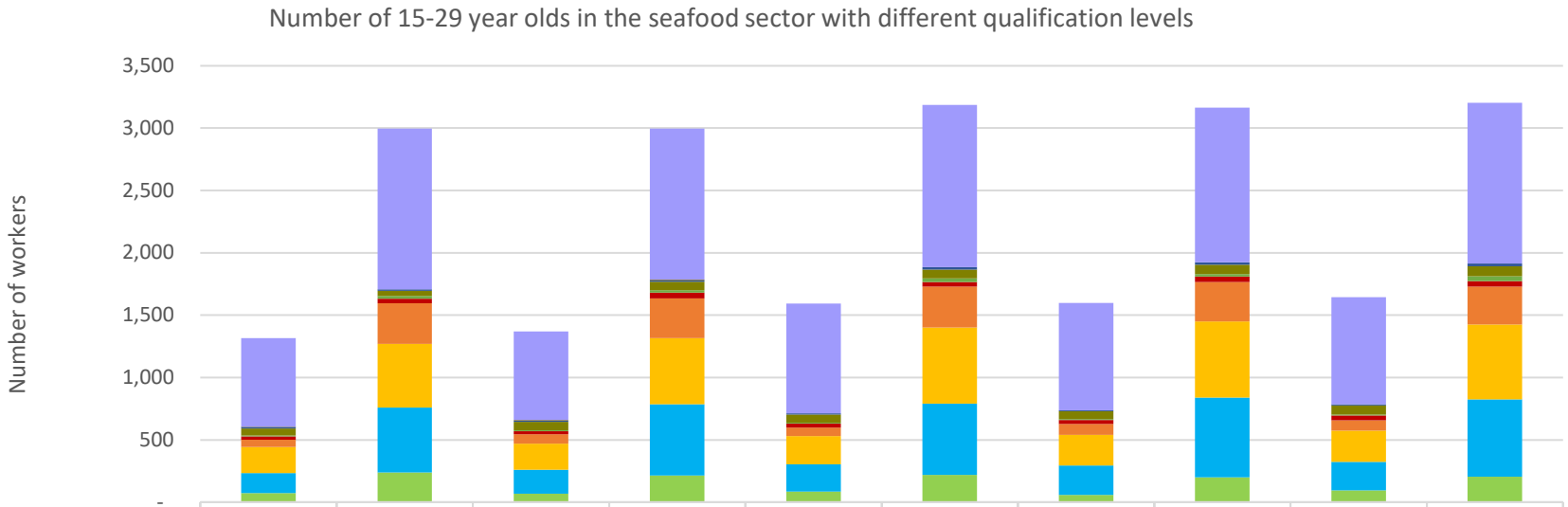

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 640 | 1,100 | 630 | 1,000 | 760 | 1,000 | 690 | 940 | 700 | 1,000 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 3 | - | 6 | 6 | - | - | - | - | - | - |
| Level 8 Post Grad/Honours | 12 | 12 | 9 | 12 | 9 | 20 | 6 | 20 | 9 | 20 |
| Level 7 Degree | 40 | 35 | 50 | 55 | 40 | 55 | 45 | 60 | 55 | 65 |
| Level 6 Diploma | 9 | 20 | 6 | 20 | 9 | 30 | 9 | 20 | 6 | 30 |
| Level 5 Diploma | 20 | 30 | 20 | 40 | 30 | 30 | 25 | 35 | 30 | 35 |
| Level 4 Cert | 40 | 280 | 60 | 280 | 55 | 290 | 70 | 270 | 65 | 260 |
| Level 3 Cert | 180 | 400 | 180 | 410 | 190 | 460 | 210 | 460 | 210 | 470 |
| Level 2 Cert | 130 | 420 | 150 | 460 | 170 | 450 | 180 | 510 | 180 | 490 |
| Level 1 Cert | 65 | 200 | 55 | 180 | 85 | 180 | 60 | 160 | 75 | 160 |

# NZ Qualification Levels: Seafood Total (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 2% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% |
| Level 7 Degree | 9% | 2% | 10% | 4% | 9% | 4% | 9% | 4% | 9% | 4% |
| Level 6 Diploma | 1% | 1% | 1% | 1% | 1% | 2% | 1% | 1% | 1% | 2% |
| Level 5 Diploma | 4% | 2% | 4% | 3% | 4% | 2% | 4% | 2% | 5% | 2% |
| Level 4 Cert | 10% | 19% | 11% | 18% | 10% | 17% | 12% | 16% | 11% | 16% |
| Level 3 Cert | 35% | 30% | 32% | 30% | 32% | 32% | 33% | 32% | 32% | 31% |
| Level 2 Cert | 26% | 30% | 29% | 32% | 31% | 30% | 32% | 33% | 29% | 32% |
| Level 1 Cert | 12% | 14% | 11% | 12% | 12% | 12% | 8% | 10% | 12% | 11% |

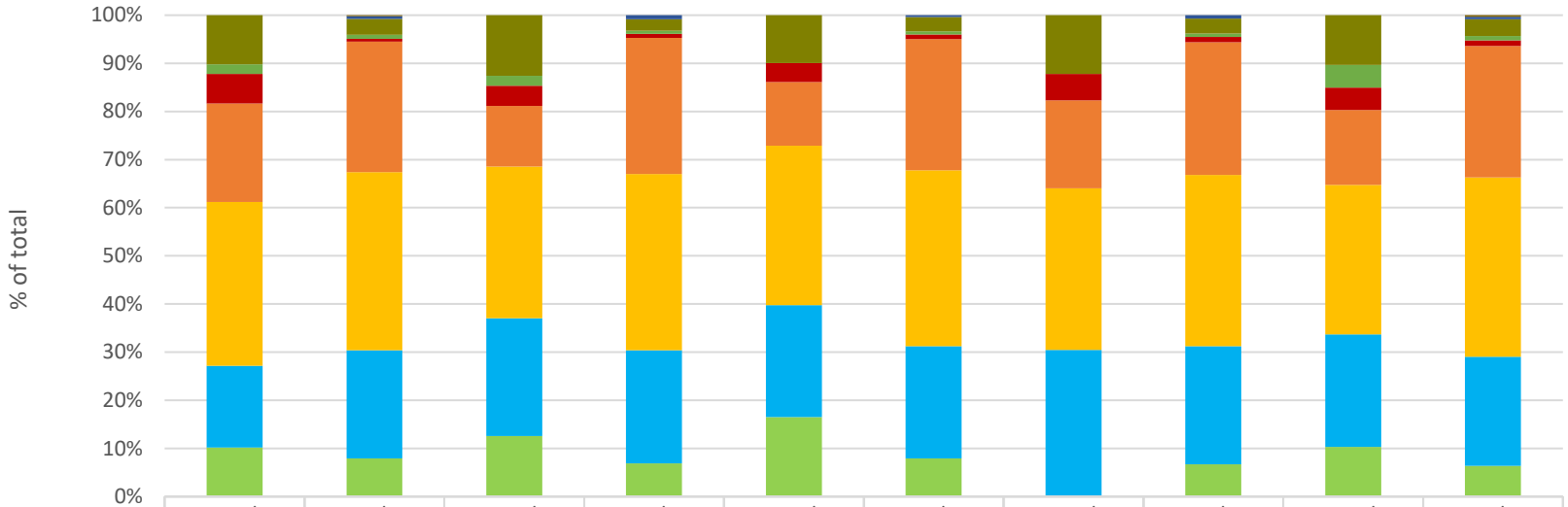
# NZ Qualification Levels: Seafood Total (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 710 | 1,290 | 710 | 1,210 | 880 | 1,300 | 860 | 1,240 | 860 | 1,290 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 3 | - | 6 | 6 | - | - | - | - | - | - |
| Level 8 Post Grad/Honours | 12 | 12 | 9 | 12 | 9 | 20 | 6 | 20 | 9 | 20 |
| Level 7 Degree | 55 | 41 | 68 | 67 | 65 | 70 | 63 | 75 | 73 | 80 |
| Level 6 Diploma | 9 | 23 | 6 | 20 | 9 | 30 | 9 | 20 | 6 | 39 |
| Level 5 Diploma | 26 | 36 | 26 | 46 | 30 | 36 | 31 | 44 | 39 | 44 |
| Level 4 Cert | 58 | 325 | 75 | 320 | 70 | 330 | 88 | 315 | 83 | 305 |
| Level 3 Cert | 210 | 510 | 210 | 530 | 225 | 610 | 245 | 610 | 250 | 600 |
| Level 2 Cert | 160 | 520 | 190 | 570 | 220 | 570 | 235 | 640 | 230 | 620 |
| Level 1 Cert | 74 | 240 | 70 | 215 | 85 | 220 | 60 | 200 | 95 | 205 |

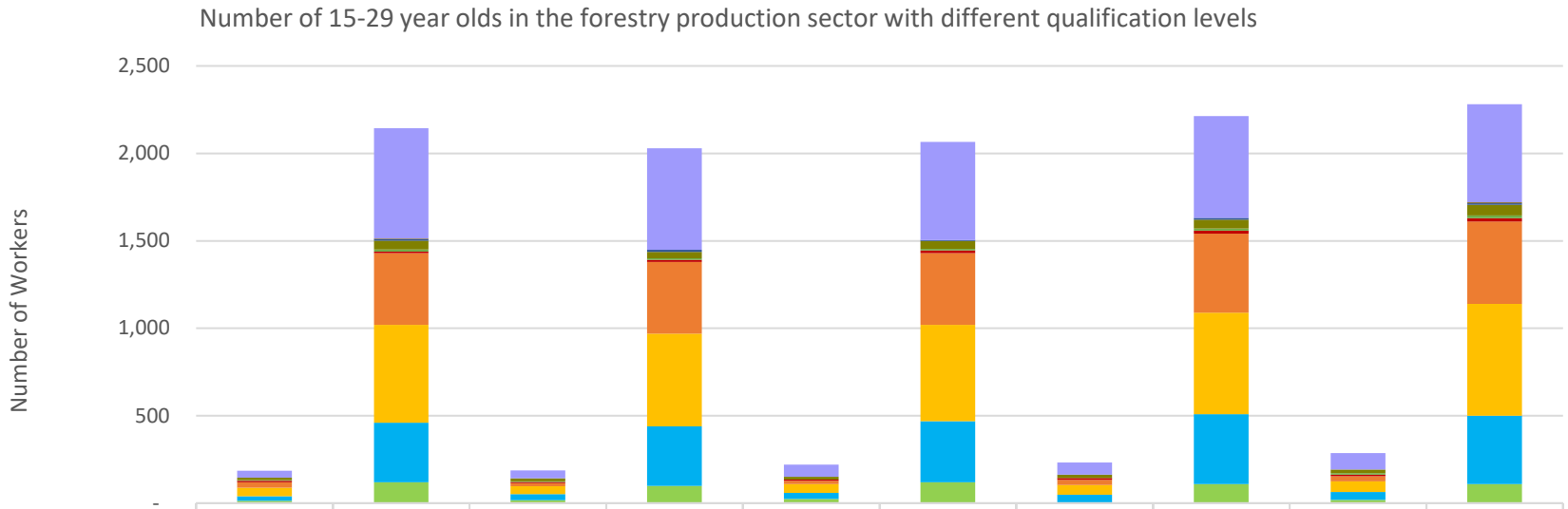
# NZ Qualification Levels: Forestry Production (proportion)

Proportion of 15-29 year olds in the forestry production sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 8 Post Grad/Honours | 0% | 1% | 0% | 1% | 0% | 0% | 0% | 1% | 0% | 1% |
| Level 7 Degree | 10% | 3% | 13% | 2% | 10% | 3% | 12% | 3% | 10% | 3% |
| Level 6 Diploma | 2% | 1% | 2% | 1% | 0% | 1% | 0% | 1% | 5% | 1% |
| Level 5 Diploma | 6% | 1% | 4% | 1% | 4% | 1% | 5% | 1% | 5% | 1% |
| Level 4 Cert | 20% | 27% | 13% | 28% | 13% | 27% | 18% | 28% | 16% | 27% |
| Level 3 Cert | 34% | 37% | 31% | 37% | 33% | 37% | 34% | 36% | 31% | 37% |
| Level 2 Cert | 17% | 22% | 24% | 23% | 23% | 23% | 30% | 25% | 23% | 23% |
| Level 1 Cert | 10% | 8% | 13% | 7% | 17% | 8% | 0% | 7% | 10% | 6% |

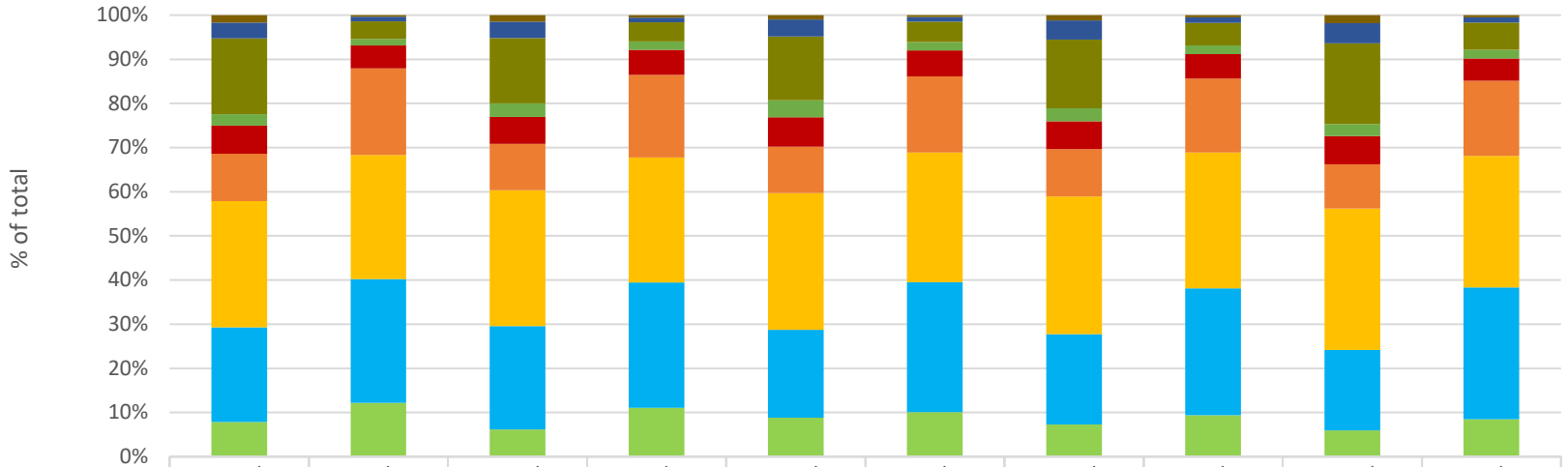
# NZ Qualification Levels:
## Forestry Production (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 40 | 630 | 45 | 580 | 70 | 560 | 70 | 580 | 95 | 560 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | - | 3 | - | - | - | - | - | - | - | 6 |
| Level 8 Post Grad/Honours | - | 9 | - | 12 | - | 6 | - | 12 | - | 9 |
| Level 7 Degree | 15 | 50 | 18 | 35 | 15 | 45 | 20 | 50 | 20 | 60 |
| Level 6 Diploma | 3 | 12 | 3 | 9 | - | 9 | - | 12 | 9 | 15 |
| Level 5 Diploma | 9 | 9 | 6 | 12 | 6 | 15 | 9 | 18 | 9 | 20 |
| Level 4 Cert | 30 | 410 | 18 | 410 | 20 | 410 | 30 | 450 | 30 | 470 |
| Level 3 Cert | 50 | 560 | 45 | 530 | 50 | 550 | 55 | 580 | 60 | 640 |
| Level 2 Cert | 25 | 340 | 35 | 340 | 35 | 350 | 50 | 400 | 45 | 390 |
| Level 1 Cert | 15 | 120 | 18 | 100 | 25 | 120 | - | 110 | 20 | 110 |

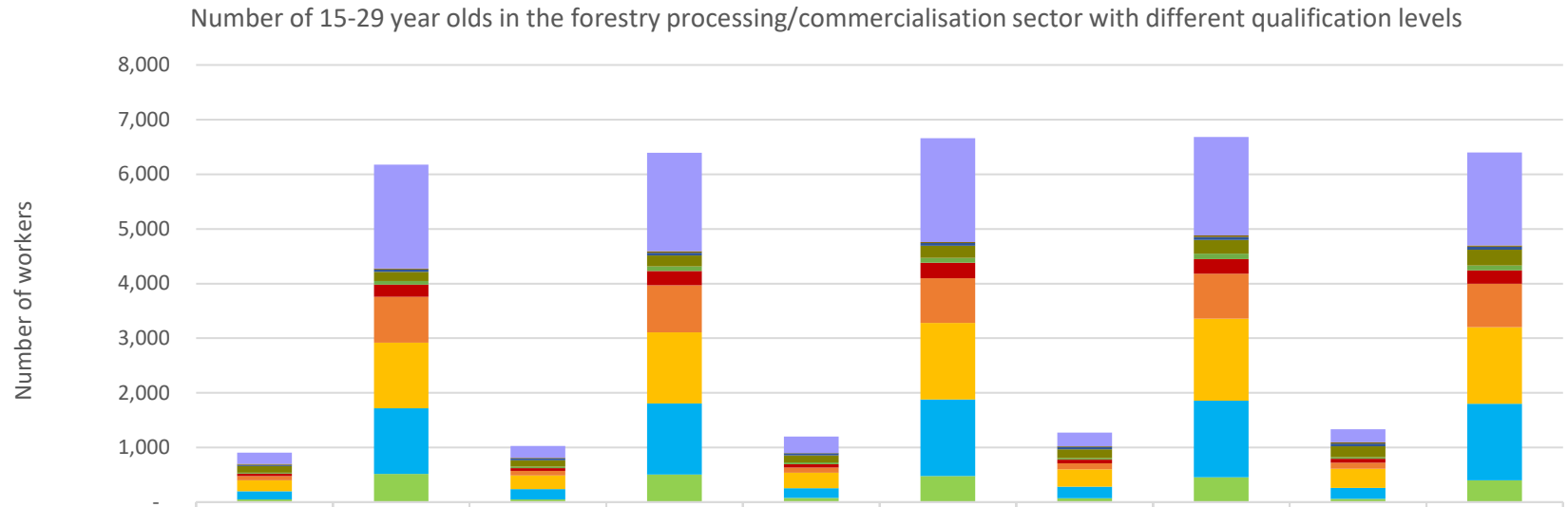
# NZ Qualification Levels: Forestry Processing/Commercialisation (proportion)

Proportion of 15-29 year olds in the forestry processing/commercialisation sector with different qualification levels



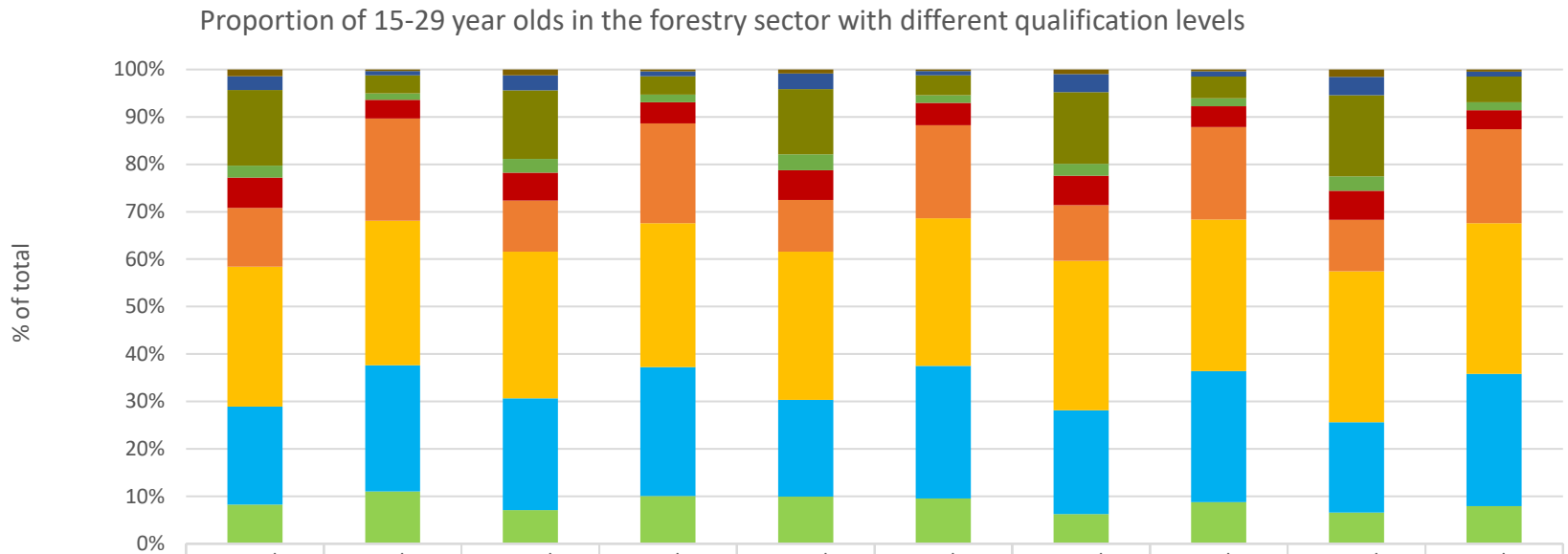

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 2% | 0% | 1% | 1% | 1% | 0% | 1% | 1% | 2% | 1% |
| Level 8 Post Grad/Honours | 4% | 1% | 4% | 1% | 4% | 1% | 4% | 1% | 5% | 1% |
| Level 7 Degree | 17% | 4% | 15% | 4% | 14% | 5% | 16% | 5% | 18% | 6% |
| Level 6 Diploma | 3% | 2% | 3% | 2% | 4% | 2% | 3% | 2% | 3% | 2% |
| Level 5 Diploma | 6% | 5% | 6% | 6% | 7% | 6% | 6% | 6% | 6% | 5% |
| Level 4 Cert | 11% | 20% | 10% | 19% | 11% | 17% | 11% | 17% | 10% | 17% |
| Level 3 Cert | 29% | 28% | 31% | 28% | 31% | 29% | 31% | 31% | 32% | 30% |
| Level 2 Cert | 21% | 28% | 23% | 28% | 20% | 29% | 20% | 29% | 18% | 30% |
| Level 1 Cert | 8% | 12% | 6% | 11% | 9% | 10% | 7% | 9% | 6% | 9% |

# NZ Qualification Levels: Forestry Processing/Commercialisation (count)



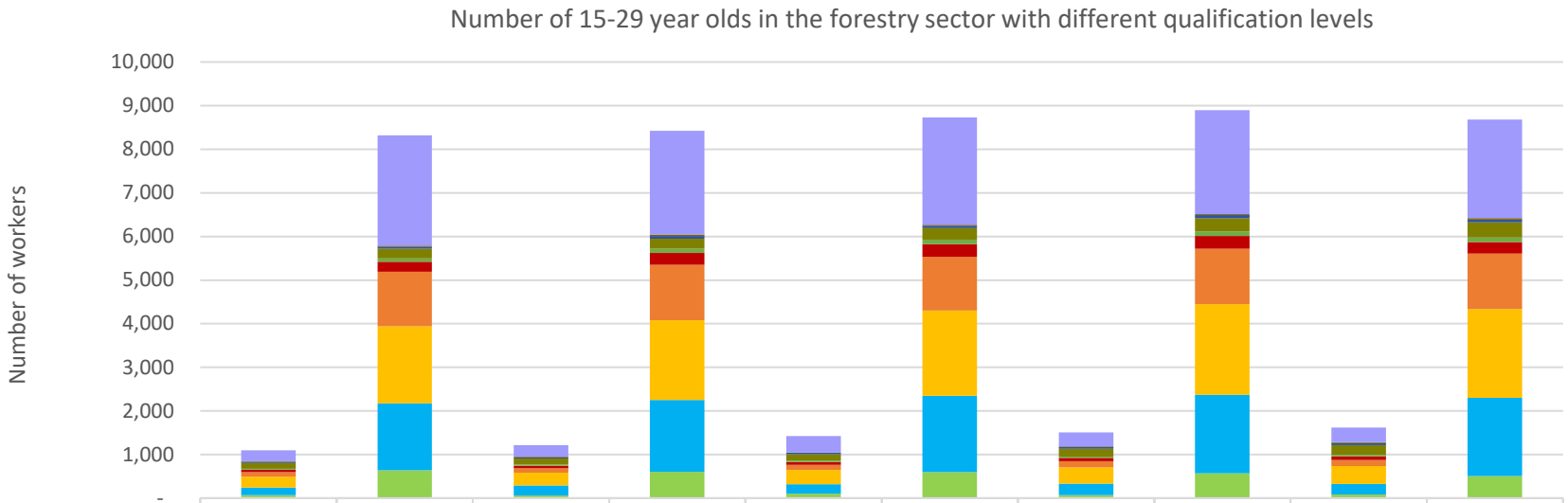

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 210 | 1,900 | 220 | 1,800 | 300 | 1,900 | 250 | 1,800 | 240 | 1,700 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 12 | 15 | 12 | 25 | 9 | 20 | 12 | 25 | 20 | 25 |
| Level 8 Post Grad/Honours | 25 | 45 | 30 | 50 | 35 | 50 | 45 | 60 | 50 | 55 |
| Level 7 Degree | 120 | 170 | 120 | 200 | 130 | 220 | 160 | 250 | 200 | 290 |
| Level 6 Diploma | 18 | 65 | 25 | 85 | 35 | 90 | 30 | 95 | 30 | 90 |
| Level 5 Diploma | 45 | 220 | 50 | 260 | 60 | 280 | 65 | 270 | 70 | 240 |
| Level 4 Cert | 75 | 840 | 85 | 860 | 95 | 820 | 110 | 820 | 110 | 800 |
| Level 3 Cert | 200 | 1,200 | 250 | 1,300 | 280 | 1,400 | 320 | 1,500 | 350 | 1,400 |
| Level 2 Cert | 150 | 1,200 | 190 | 1,300 | 180 | 1,400 | 210 | 1,400 | 200 | 1,400 |
| Level 1 Cert | 55 | 520 | 50 | 510 | 80 | 480 | 75 | 460 | 65 | 400 |

# NZ Qualification Levels: Forestry Total (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 0% | 1% | 0% | 1% | 0% | 1% | 0% | 2% | 0% |
| Level 8 Post Grad/Honours | 3% | 1% | 3% | 1% | 3% | 1% | 4% | 1% | 4% | 1% |
| Level 7 Degree | 16% | 4% | 14% | 4% | 14% | 4% | 15% | 5% | 17% | 5% |
| Level 6 Diploma | 2% | 1% | 3% | 2% | 3% | 2% | 3% | 2% | 3% | 2% |
| Level 5 Diploma | 6% | 4% | 6% | 5% | 6% | 5% | 6% | 4% | 6% | 4% |
| Level 4 Cert | 12% | 22% | 11% | 21% | 11% | 20% | 12% | 20% | 11% | 20% |
| Level 3 Cert | 30% | 30% | 31% | 30% | 31% | 31% | 31% | 32% | 32% | 32% |
| Level 2 Cert | 21% | 27% | 24% | 27% | 20% | 28% | 22% | 28% | 19% | 28% |
| Level 1 Cert | 8% | 11% | 7% | 10% | 10% | 10% | 6% | 9% | 7% | 8% |

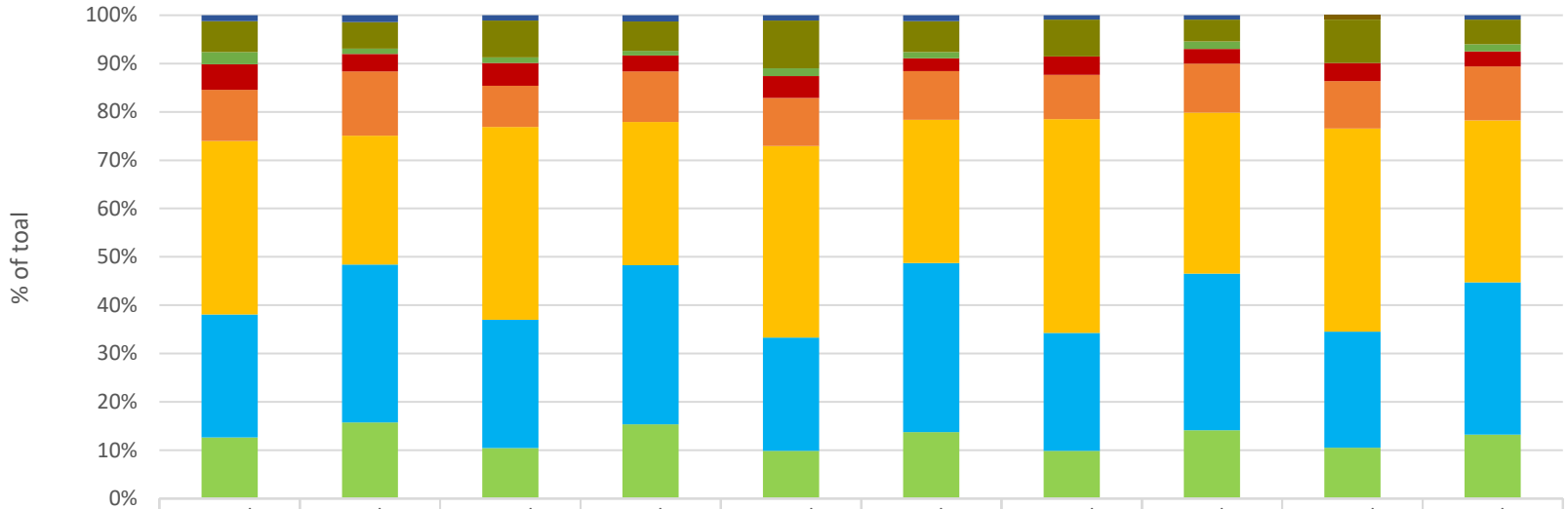
# NZ Qualification Levels: Forestry Total (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 250 | 2,530 | 265 | 2,380 | 370 | 2,460 | 320 | 2,380 | 335 | 2,260 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 12 | 18 | 12 | 25 | 9 | 20 | 12 | 25 | 20 | 31 |
| Level 8 Post Grad/Honours | 25 | 54 | 30 | 62 | 35 | 56 | 45 | 72 | 50 | 64 |
| Level 7 Degree | 135 | 220 | 138 | 235 | 145 | 265 | 180 | 300 | 220 | 350 |
| Level 6 Diploma | 21 | 77 | 28 | 94 | 35 | 99 | 30 | 107 | 39 | 105 |
| Level 5 Diploma | 54 | 229 | 56 | 272 | 66 | 295 | 74 | 288 | 79 | 260 |
| Level 4 Cert | 105 | 1,250 | 103 | 1,270 | 115 | 1,230 | 140 | 1,270 | 140 | 1,270 |
| Level 3 Cert | 250 | 1,760 | 295 | 1,830 | 330 | 1,950 | 375 | 2,080 | 410 | 2,040 |
| Level 2 Cert | 175 | 1,540 | 225 | 1,640 | 215 | 1,750 | 260 | 1,800 | 245 | 1,790 |
| Level 1 Cert | 70 | 640 | 68 | 610 | 105 | 600 | 75 | 570 | 85 | 510 |

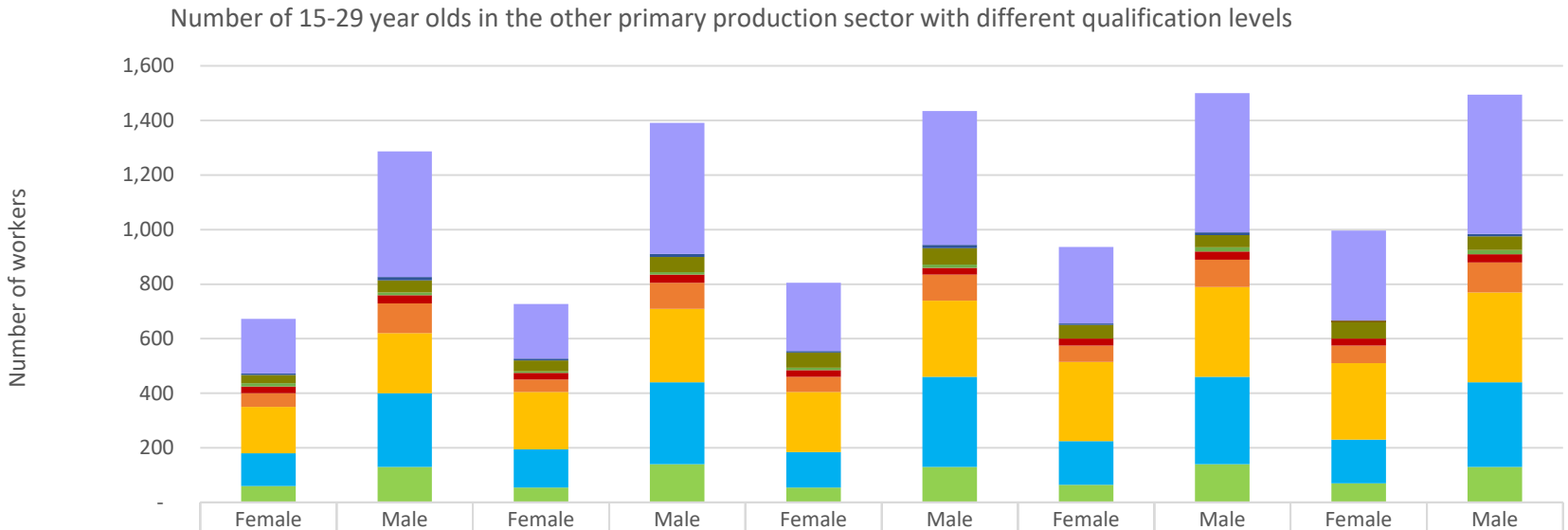
# NZ Qualification Levels: Other Primary Production (proportion)

Proportion of 15-29 year olds in the other primary production sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 0% |
| Level 8 Post Grad/Honours | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 0% | 1% |
| Level 7 Degree | 6% | 5% | 8% | 6% | 10% | 6% | 8% | 5% | 9% | 5% |
| Level 6 Diploma | 3% | 1% | 1% | 1% | 2% | 1% | 0% | 2% | 0% | 2% |
| Level 5 Diploma | 5% | 4% | 5% | 3% | 5% | 3% | 4% | 3% | 4% | 3% |
| Level 4 Cert | 11% | 13% | 9% | 10% | 10% | 10% | 9% | 10% | 10% | 11% |
| Level 3 Cert | 36% | 27% | 40% | 30% | 40% | 30% | 44% | 33% | 42% | 34% |
| Level 2 Cert | 25% | 33% | 27% | 33% | 23% | 35% | 24% | 32% | 24% | 32% |
| Level 1 Cert | 13% | 16% | 10% | 15% | 10% | 14% | 10% | 14% | 11% | 13% |

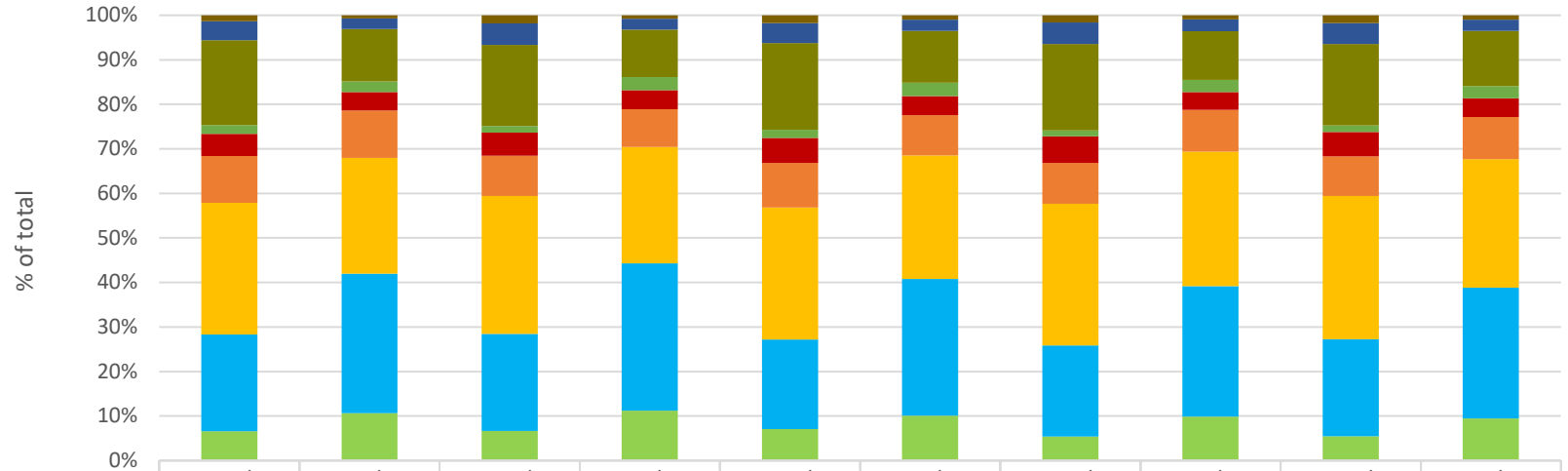
# NZ Qualification Levels: Other Primary Production (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 200 | 460 | 200 | 480 | 250 | 490 | 280 | 510 | 330 | 510 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | - | - | - | - | - | - | - | - | 6 | - |
| Level 8 Post Grad/Honours | 6 | 12 | 6 | 12 | 6 | 12 | 6 | 9 | - | 9 |
| Level 7 Degree | 30 | 45 | 40 | 55 | 55 | 60 | 50 | 45 | 60 | 50 |
| Level 6 Diploma | 12 | 9 | 6 | 9 | 9 | 12 | - | 15 | - | 15 |
| Level 5 Diploma | 25 | 30 | 25 | 30 | 25 | 25 | 25 | 30 | 25 | 30 |
| Level 4 Cert | 50 | 110 | 45 | 95 | 55 | 95 | 60 | 100 | 65 | 110 |
| Level 3 Cert | 170 | 220 | 210 | 270 | 220 | 280 | 290 | 330 | 280 | 330 |
| Level 2 Cert | 120 | 270 | 140 | 300 | 130 | 330 | 160 | 320 | 160 | 310 |
| Level 1 Cert | 60 | 130 | 55 | 140 | 55 | 130 | 65 | 140 | 70 | 130 |

# NZ Qualification Levels:
# Other Primary Processing/Commercialisation (proportion)

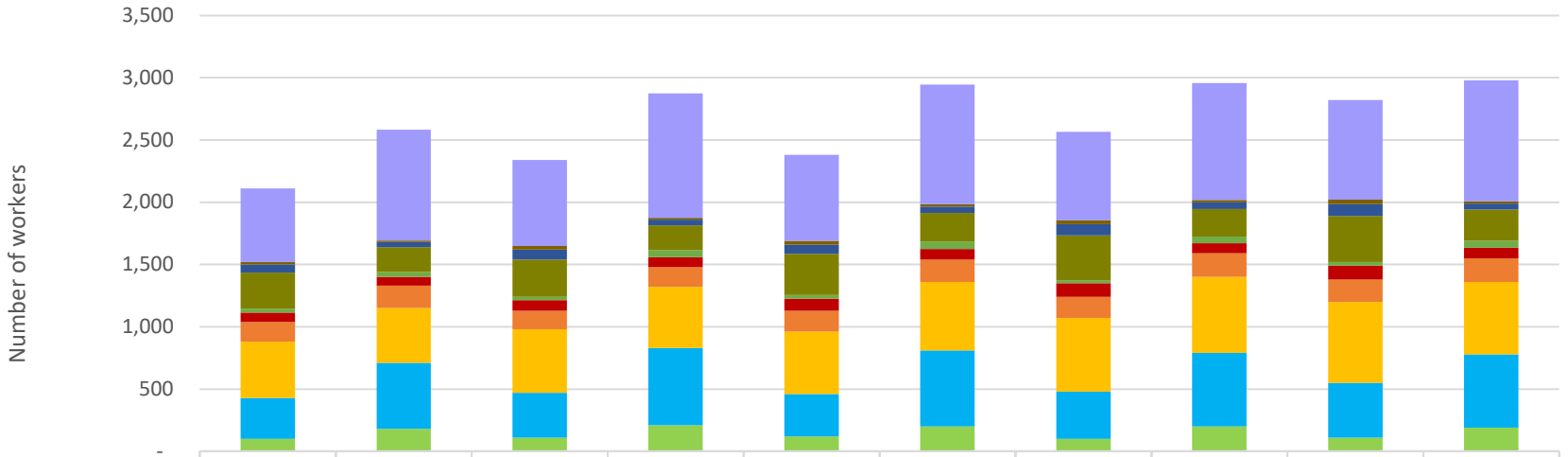
Proportion of 15-29 year olds in the other primary processing/commercialisation sector with different qualification levels




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 1% | 2% | 1% | 2% | 1% | 2% | 1% | 2% | 1% |
| Level 8 Post Grad/Honours | 4% | 2% | 5% | 2% | 4% | 3% | 5% | 3% | 5% | 2% |
| Level 7 Degree | 19% | 12% | 18% | 11% | 20% | 12% | 19% | 11% | 18% | 12% |
| Level 6 Diploma | 2% | 2% | 2% | 3% | 2% | 3% | 1% | 3% | 1% | 3% |
| Level 5 Diploma | 5% | 4% | 5% | 4% | 6% | 4% | 6% | 4% | 5% | 4% |
| Level 4 Cert | 11% | 11% | 9% | 9% | 10% | 9% | 9% | 9% | 9% | 9% |
| Level 3 Cert | 30% | 26% | 31% | 26% | 30% | 28% | 32% | 30% | 32% | 29% |
| Level 2 Cert | 22% | 31% | 22% | 33% | 20% | 31% | 20% | 29% | 22% | 29% |
| Level 1 Cert | 7% | 11% | 7% | 11% | 7% | 10% | 5% | 10% | 5% | 9% |

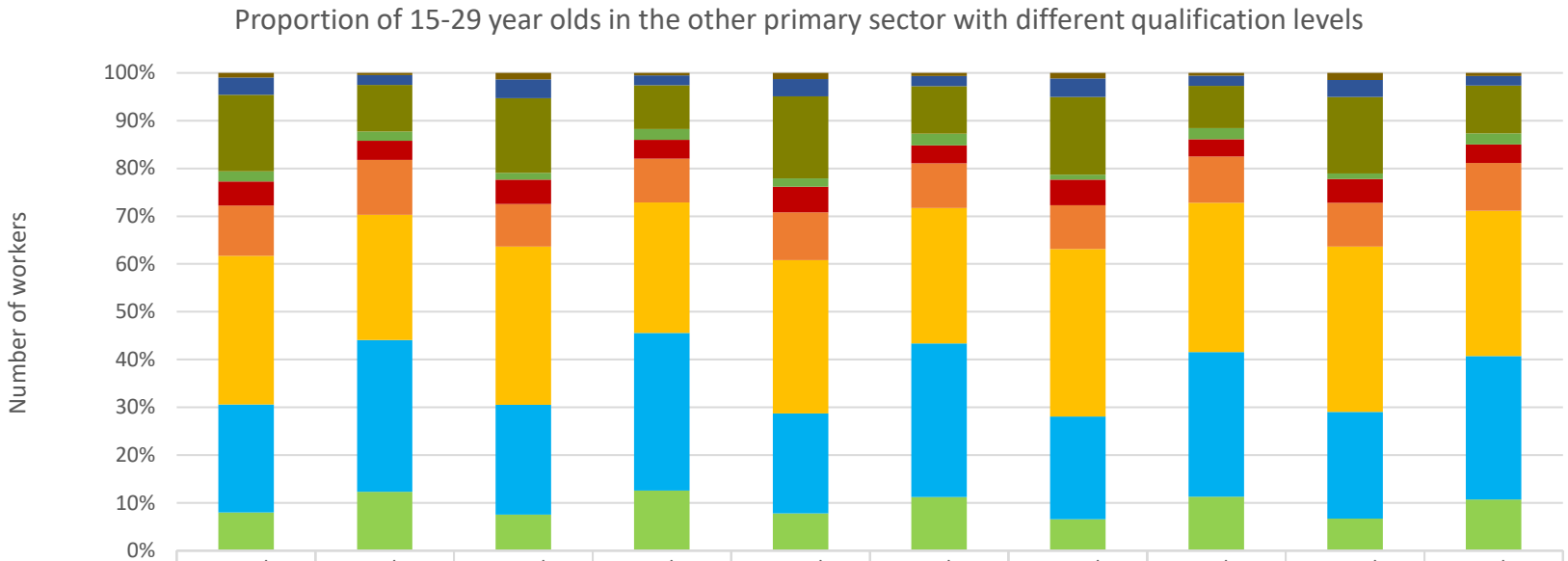
# NZ Qualification Levels:
# Other Primary Processing/Commercialisation (count)

Number of 15-29 year olds in the other primary processing/commercialisation sector with different qualification levels



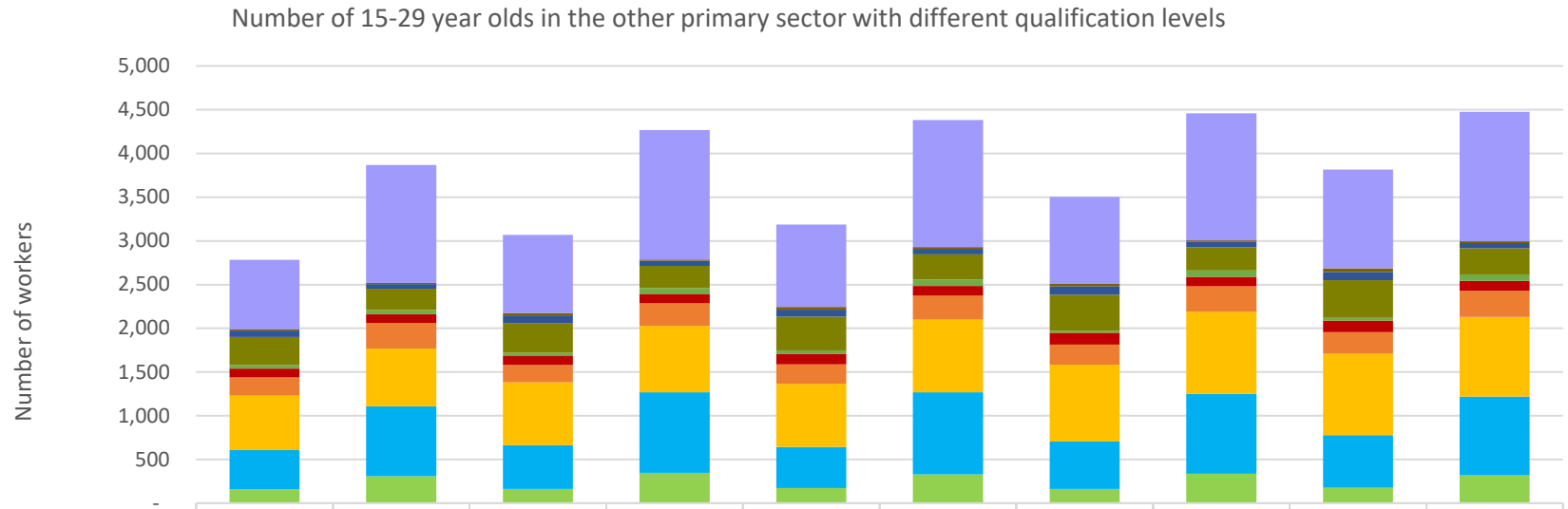

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 590 | 890 | 690 | 1,000 | 690 | 960 | 710 | 940 | 800 | 970 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 20 | 12 | 30 | 15 | 30 | 20 | 30 | 18 | 35 | 20 |
| Level 8 Post Grad/Honours | 65 | 40 | 80 | 45 | 75 | 50 | 90 | 55 | 95 | 50 |
| Level 7 Degree | 290 | 200 | 300 | 200 | 330 | 230 | 360 | 220 | 370 | 250 |
| Level 6 Diploma | 30 | 40 | 25 | 55 | 30 | 60 | 25 | 55 | 30 | 55 |
| Level 5 Diploma | 75 | 70 | 85 | 80 | 95 | 85 | 110 | 80 | 110 | 85 |
| Level 4 Cert | 160 | 180 | 150 | 160 | 170 | 180 | 170 | 190 | 180 | 190 |
| Level 3 Cert | 450 | 440 | 510 | 490 | 500 | 550 | 590 | 610 | 650 | 580 |
| Level 2 Cert | 330 | 530 | 360 | 620 | 340 | 610 | 380 | 590 | 440 | 590 |
| Level 1 Cert | 100 | 180 | 110 | 210 | 120 | 200 | 100 | 200 | 110 | 190 |

# NZ Qualification Levels: Other Primary Total (proportion)



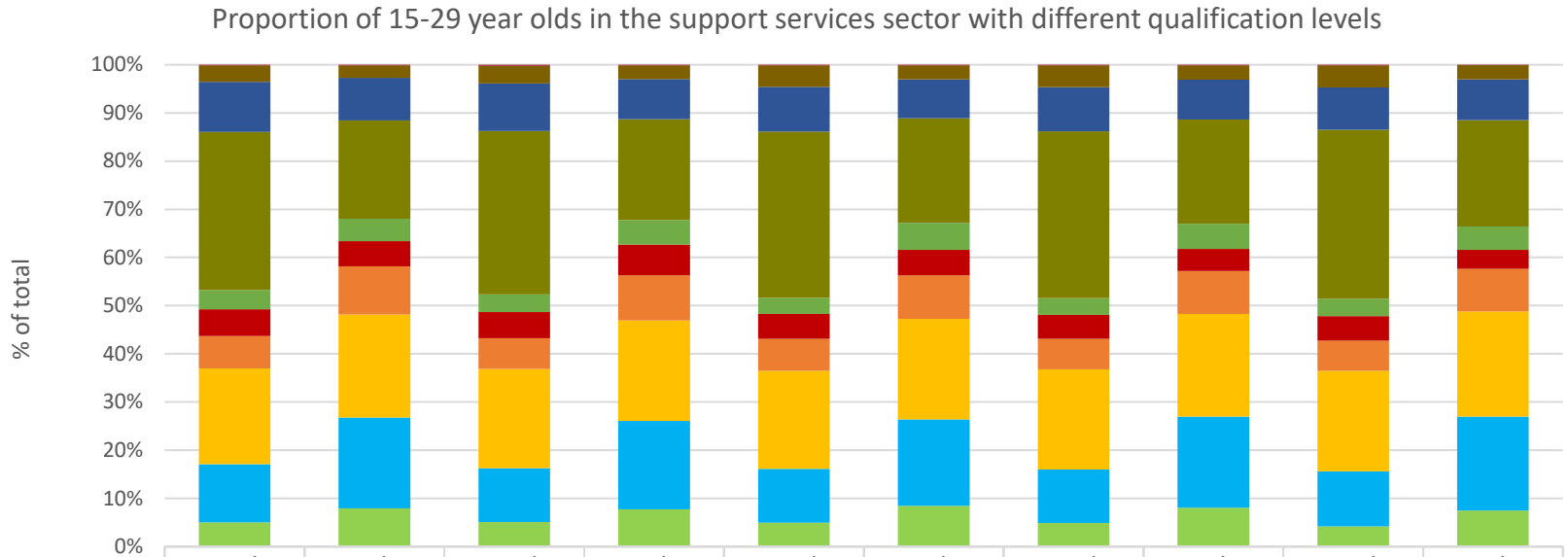

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 1% | 0% | 1% | 1% | 1% | 1% | 1% | 1% | 2% | 1% |
| Level 8 Post Grad/Honours | 4% | 2% | 4% | 2% | 4% | 2% | 4% | 2% | 4% | 2% |
| Level 7 Degree | 16% | 10% | 16% | 9% | 17% | 10% | 16% | 9% | 16% | 10% |
| Level 6 Diploma | 2% | 2% | 1% | 2% | 2% | 2% | 1% | 2% | 1% | 2% |
| Level 5 Diploma | 5% | 4% | 5% | 4% | 5% | 4% | 5% | 4% | 5% | 4% |
| Level 4 Cert | 11% | 12% | 9% | 9% | 10% | 9% | 9% | 10% | 9% | 10% |
| Level 3 Cert | 31% | 26% | 33% | 27% | 32% | 28% | 35% | 31% | 35% | 30% |
| Level 2 Cert | 23% | 32% | 23% | 33% | 21% | 32% | 22% | 30% | 22% | 30% |
| Level 1 Cert | 8% | 12% | 8% | 13% | 8% | 11% | 7% | 11% | 7% | 11% |

# NZ Qualification Levels: Other Primary Total (count)



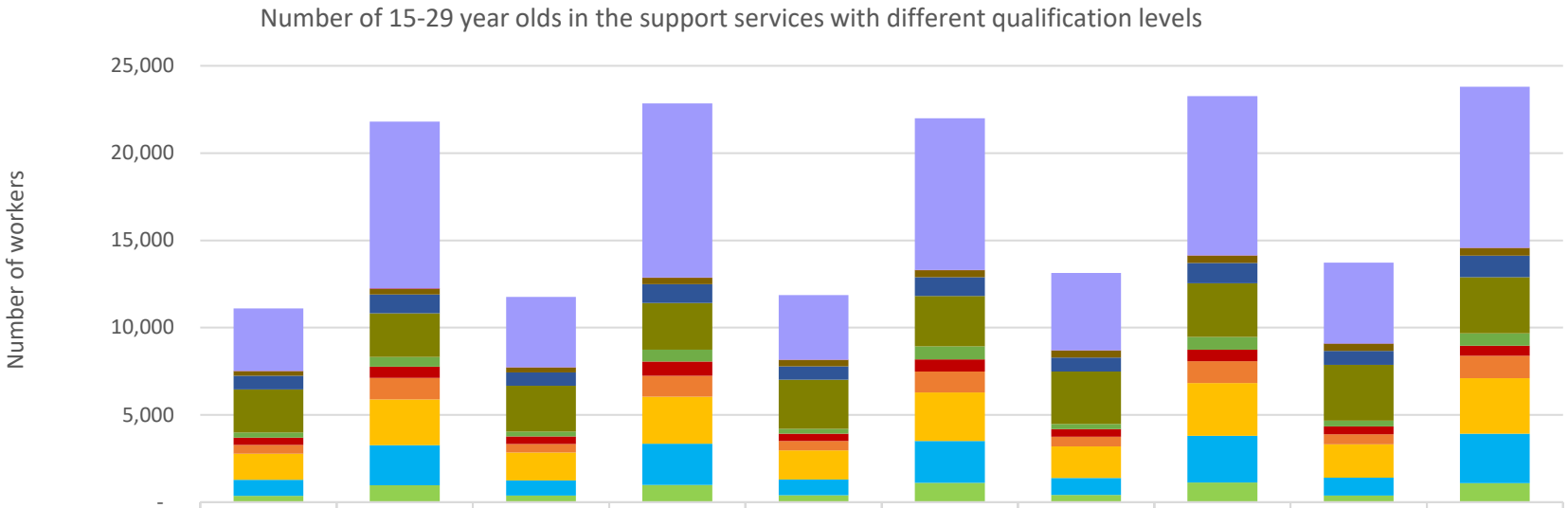

| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 790 | 1,350 | 890 | 1,480 | 940 | 1,450 | 990 | 1,450 | 1,130 | 1,480 |
| Level 10 Doctorate | - | - | - | - | - | - | - | - | - | - |
| Level 9 Masters | 20 | 12 | 30 | 15 | 30 | 20 | 30 | 18 | 41 | 20 |
| Level 8 Post Grad/Honours | 71 | 52 | 86 | 57 | 81 | 62 | 96 | 64 | 95 | 59 |
| Level 7 Degree | 320 | 245 | 340 | 255 | 385 | 290 | 410 | 265 | 430 | 300 |
| Level 6 Diploma | 42 | 49 | 31 | 64 | 39 | 72 | 25 | 70 | 30 | 70 |
| Level 5 Diploma | 100 | 100 | 110 | 110 | 120 | 110 | 135 | 110 | 135 | 115 |
| Level 4 Cert | 210 | 290 | 195 | 255 | 225 | 275 | 230 | 290 | 245 | 300 |
| Level 3 Cert | 620 | 660 | 720 | 760 | 720 | 830 | 880 | 940 | 930 | 910 |
| Level 2 Cert | 450 | 800 | 500 | 920 | 470 | 940 | 540 | 910 | 600 | 900 |
| Level 1 Cert | 160 | 310 | 165 | 350 | 175 | 330 | 165 | 340 | 180 | 320 |

# NZ Qualification Levels: Support Services Total (proportion)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Level 10 Doctorate | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Level 9 Masters | 3% | 3% | 4% | 3% | 4% | 3% | 5% | 3% | 5% | 3% |
| Level 8 Post Grad/Honours | 10% | 9% | 10% | 8% | 9% | 8% | 9% | 8% | 9% | 9% |
| Level 7 Degree | 33% | 20% | 34% | 21% | 34% | 22% | 35% | 22% | 35% | 22% |
| Level 6 Diploma | 4% | 5% | 4% | 5% | 3% | 6% | 3% | 5% | 4% | 5% |
| Level 5 Diploma | 6% | 5% | 5% | 6% | 5% | 5% | 5% | 5% | 5% | 4% |
| Level 4 Cert | 7% | 10% | 6% | 9% | 7% | 9% | 6% | 9% | 6% | 9% |
| Level 3 Cert | 20% | 21% | 21% | 21% | 20% | 21% | 21% | 21% | 21% | 22% |
| Level 2 Cert | 12% | 19% | 11% | 18% | 11% | 18% | 11% | 19% | 11% | 19% |
| Level 1 Cert | 5% | 8% | 5% | 8% | 5% | 8% | 5% | 8% | 4% | 8% |

# NZ Qualification Levels: Support Services Total (count)




| | Female 2015 | Male 2015 | Female 2016 | Male 2016 | Female 2017 | Male 2017 | Female 2018 | Male 2018 | Female 2019 | Male 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| Other | 3,583 | 9,562 | 4,016 | 9,960 | 3,705 | 8,677 | 4,438 | 9,115 | 4,636 | 9,220 |
| Level 10 Doctorate | 13 | 20 | 14 | 19 | 13 | 18 | 13 | 16 | 11 | 14 |
| Level 9 Masters | 256 | 315 | 289 | 362 | 363 | 392 | 393 | 422 | 417 | 426 |
| Level 8 Post Grad/Honours | 781 | 1,082 | 763 | 1,079 | 759 | 1,074 | 799 | 1,168 | 800 | 1,239 |
| Level 7 Degree | 2,465 | 2,495 | 2,621 | 2,688 | 2,812 | 2,880 | 3,011 | 3,059 | 3,188 | 3,214 |
| Level 6 Diploma | 303 | 567 | 283 | 661 | 274 | 751 | 303 | 743 | 331 | 703 |
| Level 5 Diploma | 417 | 642 | 423 | 821 | 421 | 701 | 432 | 644 | 460 | 575 |
| Level 4 Cert | 505 | 1,225 | 495 | 1,202 | 542 | 1,200 | 546 | 1,265 | 569 | 1,288 |
| Level 3 Cert | 1,497 | 2,618 | 1,591 | 2,689 | 1,661 | 2,775 | 1,814 | 3,012 | 1,900 | 3,182 |
| Level 2 Cert | 908 | 2,304 | 862 | 2,362 | 910 | 2,389 | 963 | 2,670 | 1,036 | 2,836 |
| Level 1 Cert | 380 | 972 | 397 | 998 | 405 | 1,125 | 428 | 1,143 | 383 | 1,093 |

# Field of study

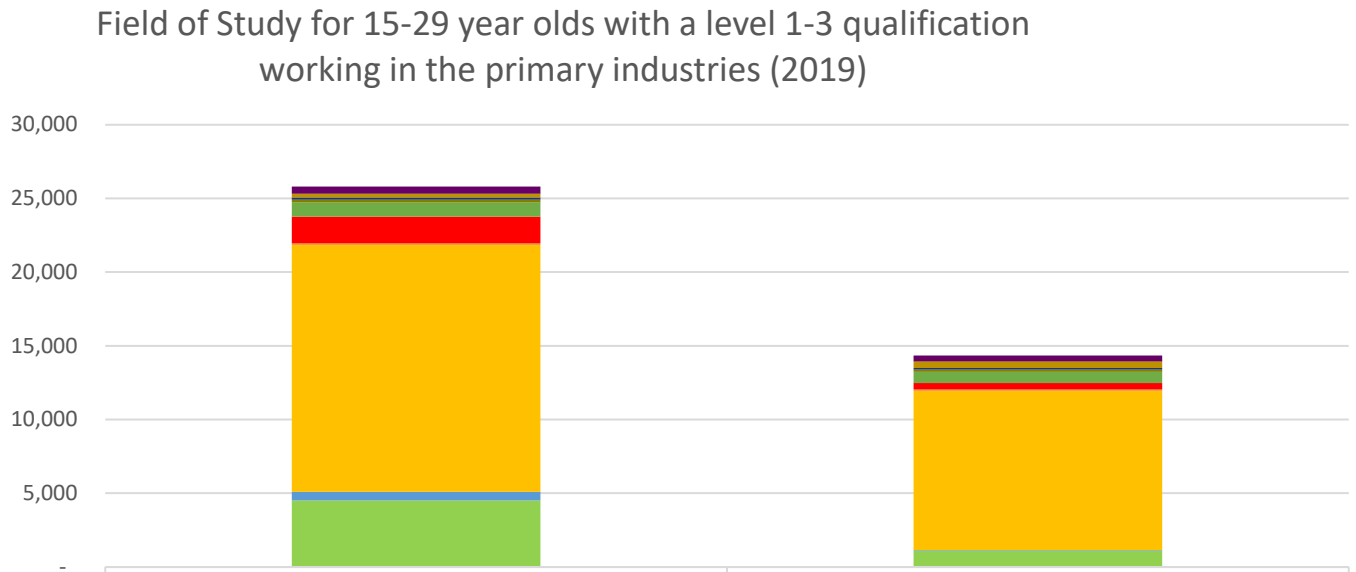
To further understand the qualifications of 15 to 29 year olds in the primary industries an analysis of field of study has been undertaken. The results confirm there is a wide diversity of fields of study represented in those employed in the primary industries.

As expected Agriculture (including horticulture, forestry, fisheries), Environmental and Related Studies, along with Natural and Physical Sciences are important, but also Engineering and Related Technologies, and Management and Commerce.

Information Technology also features significantly in Support Services. Because there are significantly more degree qualified people in Support Services they have been placed on a separate graph.

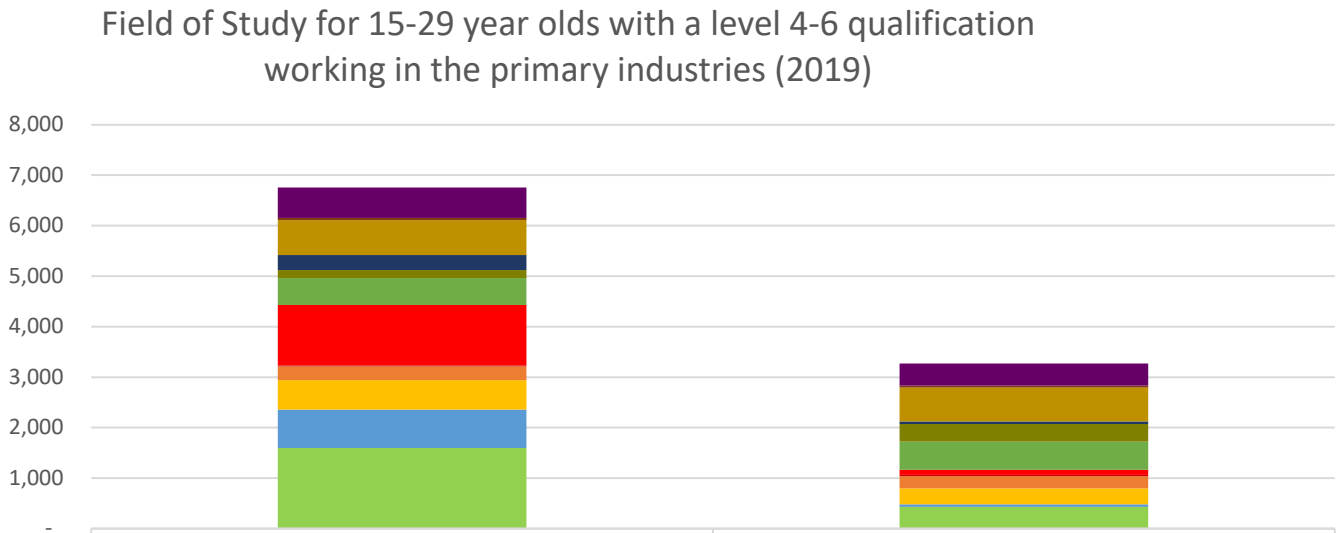
It should be noted that the blended category covers situations where people are studying across two or more fields of study. Whilst the level of blended people is high in the lower qualification areas (levels 1-3) this reduces significantly in the higher qualification levels as people become more specialised in a particular field of study.

# NZ Qualification Levels: Levels 1-3
# Field of study for 15 to 29 year olds as at 2019




| | Male | Female |
|---|---|---|
| Society and Culture | 470 | 390 |
| Natural and Physical Sciences | 9 | 9 |
| Management and Commerce | 250 | 450 |
| Information Technology | 160 | 110 |
| Health | 190 | 150 |
| Food, Hospitality and Personal Services | 960 | 760 |
| Engineering and Related Technologies | 1,800 | 440 |
| Creative Arts | 95 | 80 |
| Blended/Other | 16,769 | 10,815 |
| Architecture and Building | 590 | 40 |
| Agriculture, Environmental and Related Studies | 4,500 | 1,100 |

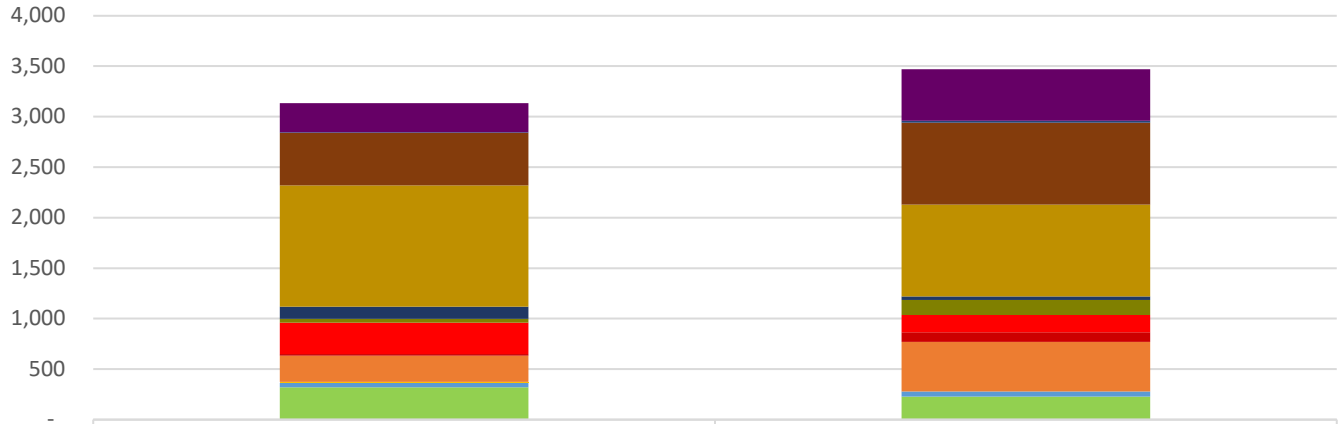
# NZ Qualification Levels 4-6
# Field of study for 15 to 29 year olds as at 2019




| | Male | Female |
|---|---|---|
| Society and Culture | 600 | 440 |
| Natural and Physical Sciences | 45 | 35 |
| Management and Commerce | 690 | 670 |
| Information Technology | 300 | 50 |
| Health | 160 | 350 |
| Food, Hospitality and Personal Services | 530 | 560 |
| Engineering and Related Technologies | 1,200 | 100 |
| Education | 20 | 25 |
| Creative Arts | 270 | 240 |
| Blended/Other | 580 | 320 |
| Architecture and Building | 760 | 50 |
| Agriculture, Environmental and Related Studies | 1,600 | 430 |

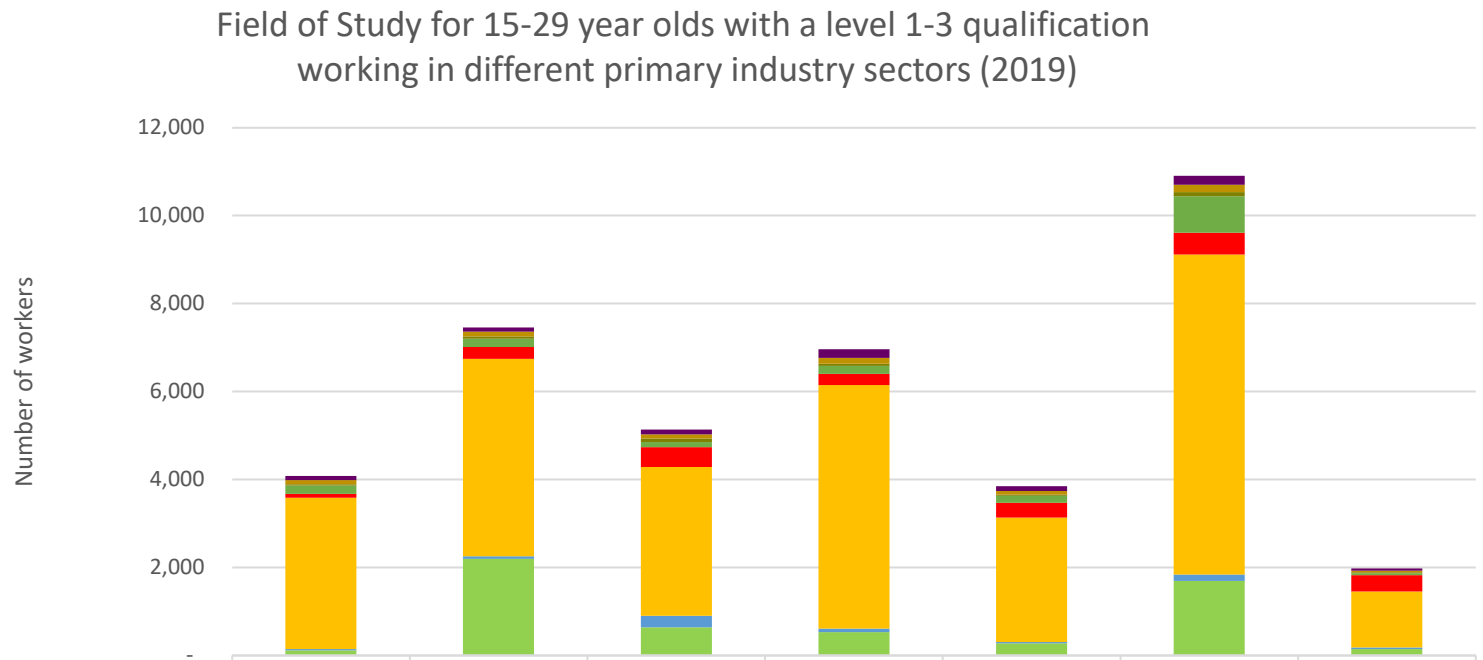
# NZ Qualification Levels: Level 7 and above
# Field of Study for 15 to 29 year olds as at 2019

Field of Study for 15-29 year olds with a level 7 and above qualification working in the primary industries (2019)



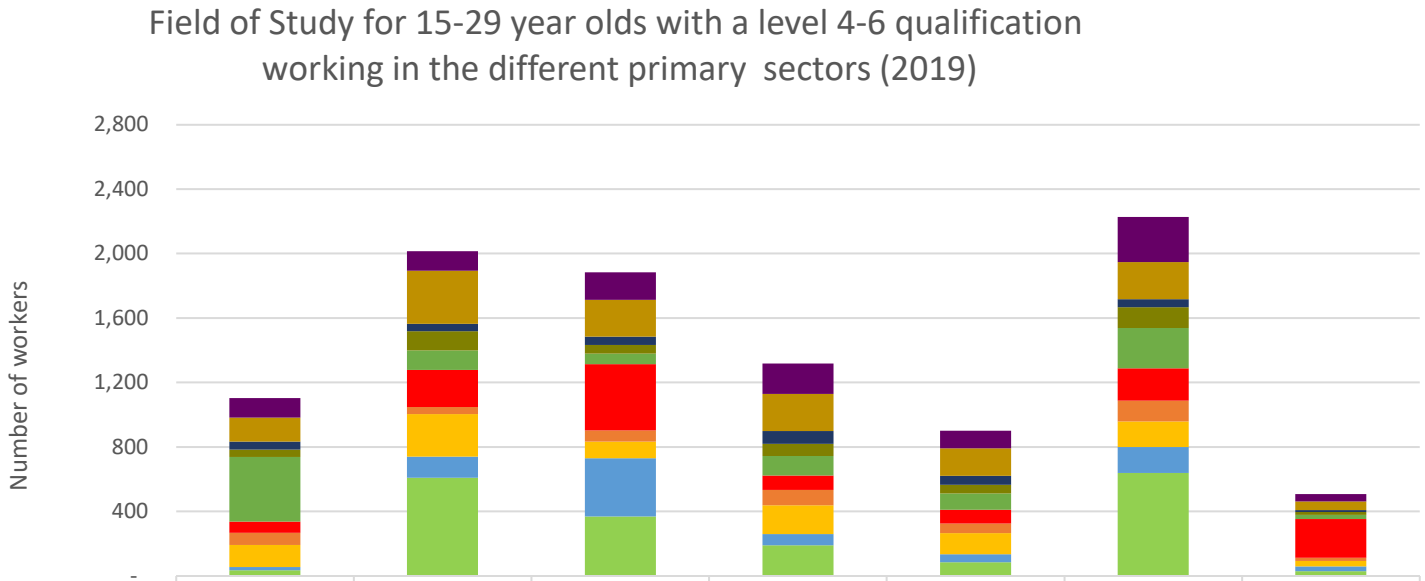

| | Male | Female |
|---|---|---|
| Society and Culture | 290 | 510 |
| Food, Hospitality and Personal Services | 6 | 20 |
| Natural and Physical Sciences | 520 | 810 |
| Management and Commerce | 1,200 | 910 |
| Information Technology | 120 | 35 |
| Health | 40 | 150 |
| Engineering and Related Technologies | 310 | 170 |
| Education | 15 | 95 |
| Creative Arts | 260 | 490 |
| Blended\Other | 9 | - |
| Architecture and Building | 45 | 50 |
| Agriculture, Environmental and Related Studies | 320 | 230 |

# NZ Qualification Levels: Level 1-3
# Field of Study for 15 to 29 year olds as at 2019



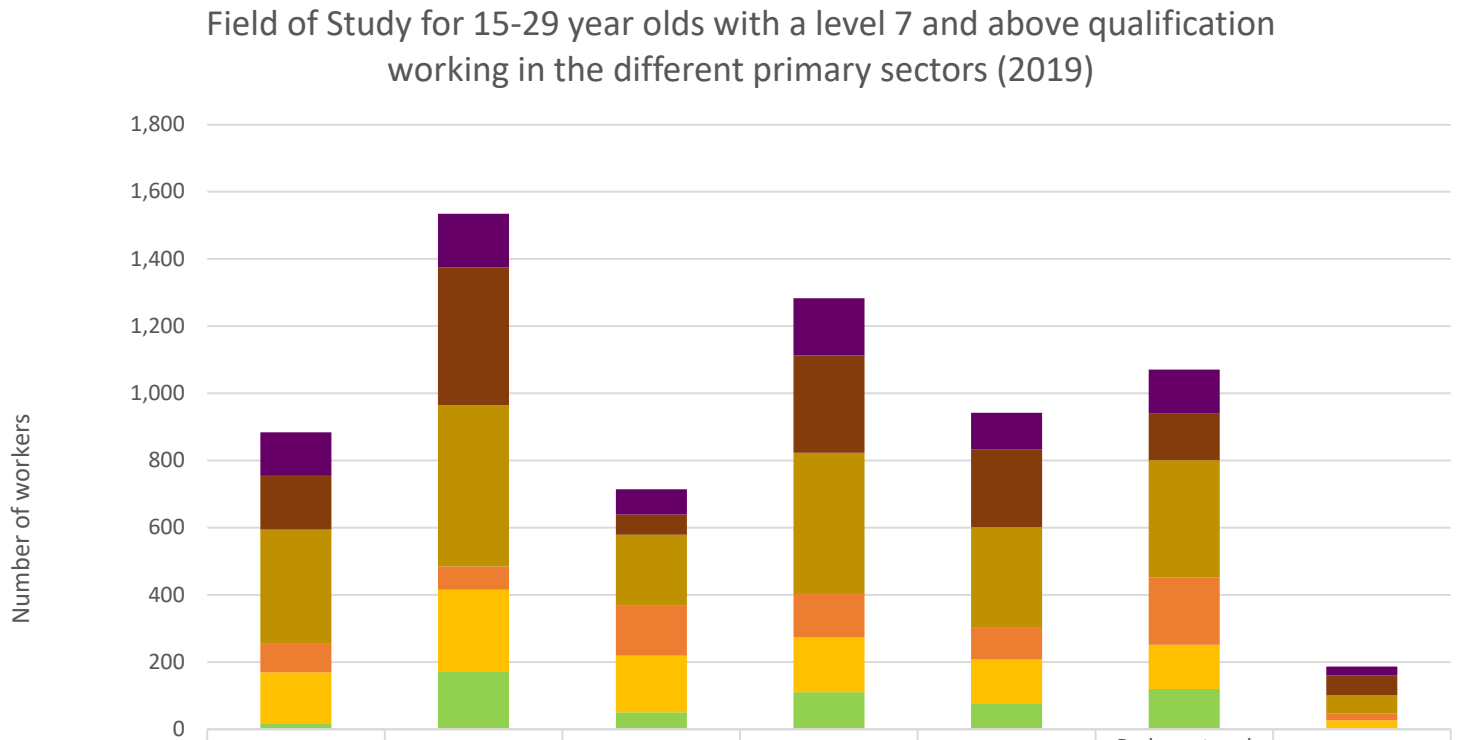

| | Arable | Dairy | Forestry | Horticulture | Other Primary | Red meat and wool | Seafood |
|---|---|---|---|---|---|---|---|
| Society and Culture | 90 | 95 | 110 | 200 | 110 | 200 | 50 |
| Management and Commerce | 95 | 110 | 95 | 130 | 80 | 170 | 35 |
| Health | 30 | 50 | 75 | 50 | 30 | 95 | 18 |
| Food, Hospitality and Personal Services | 190 | 190 | 120 | 180 | 160 | 830 | 50 |
| Engineering and Related Technologies | 90 | 270 | 450 | 260 | 330 | 490 | 370 |
| Blended\Other | 3,435 | 4,484 | 3,385 | 5,530 | 2,830 | 7,279 | 1,274 |
| Architecture and Building | 30 | 60 | 260 | 85 | 30 | 140 | 30 |
| Agriculture, Environmental and Related Studies | 120 | 2,200 | 640 | 530 | 280 | 1,700 | 150 |

# NZ Qualification Levels: Level 4-6
# Field of study for 15 to 29 year olds as at 2019



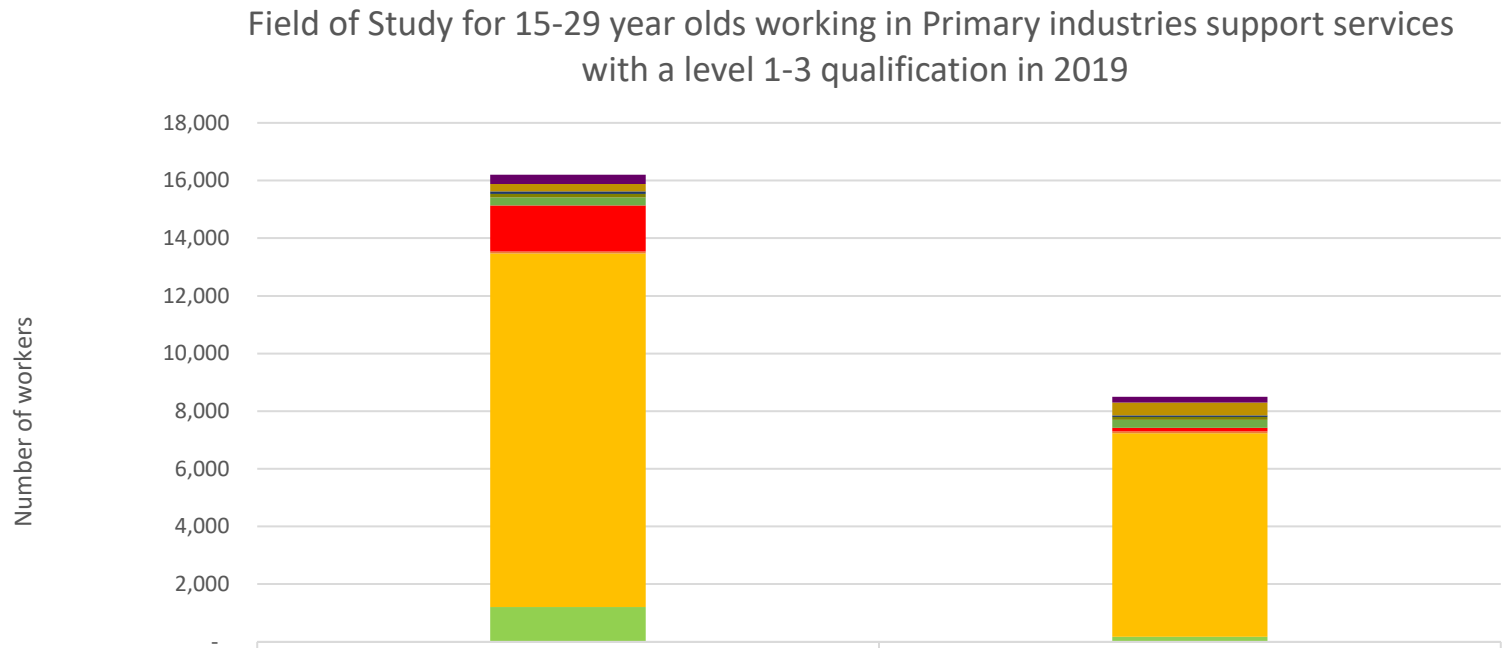

| | Arable | Dairy | Forestry | Horticulture | Other Primary | Red meat and wool | Seafood |
|---|---|---|---|---|---|---|---|
| Society and Culture | 120 | 120 | 170 | 190 | 110 | 280 | 45 |
| Management and Commerce | 150 | 330 | 230 | 230 | 170 | 230 | 55 |
| Information Technology | 50 | 45 | 50 | 80 | 55 | 50 | 12 |
| Health | 45 | 120 | 55 | 75 | 55 | 130 | 18 |
| Food, Hospitality and Personal Services | 400 | 120 | 65 | 120 | 100 | 250 | 25 |
| Engineering and Related Technologies | 70 | 230 | 410 | 90 | 85 | 200 | 240 |
| Creative Arts | 75 | 45 | 70 | 95 | 60 | 130 | 20 |
| Blended\Other | 138 | 264 | 104 | 179 | 131 | 158 | 33 |
| Architecture and Building | 20 | 130 | 360 | 70 | 50 | 160 | 30 |
| Agriculture, Environmental and Related Studies | 35 | 610 | 370 | 190 | 85 | 640 | 30 |

# NZ Qualification Levels: Level 7 and above
# Field of study for 15 to 29 year olds as at 2019



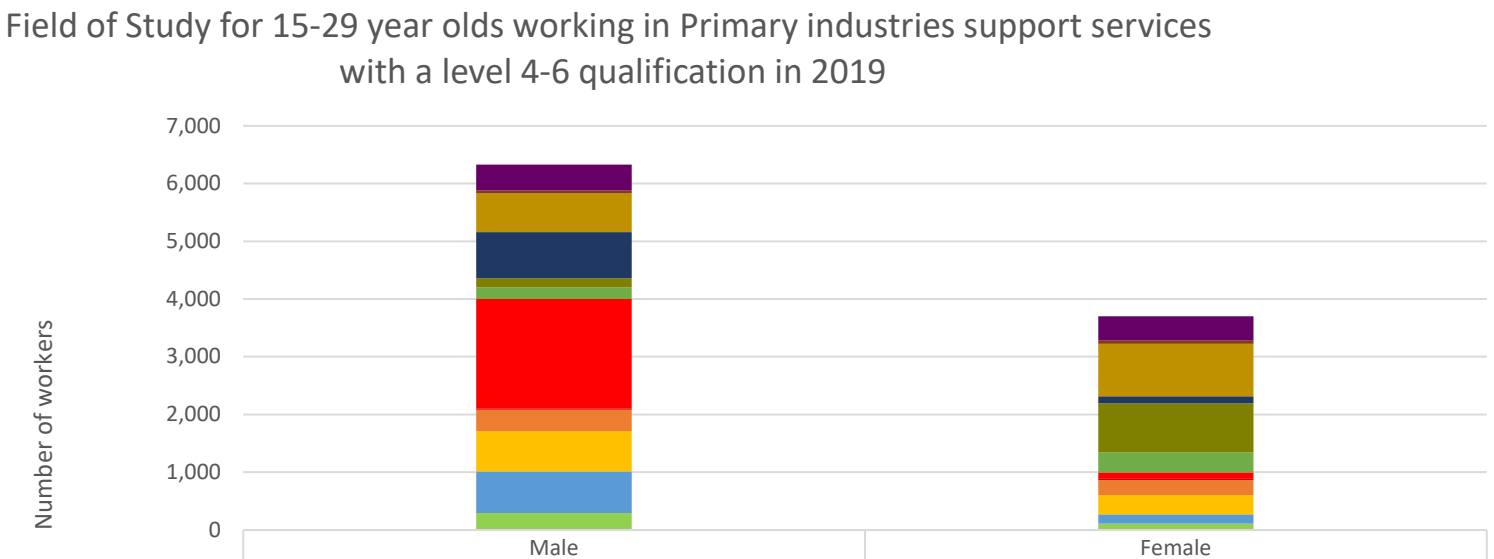

| | Arable | Dairy | Forestry | Horticulture | Other Primary | Red meat and wool | Seafood |
|---|---|---|---|---|---|---|---|
| Society and Culture | 130 | 160 | 75 | 170 | 110 | 130 | 25 |
| Natural and Physical Sciences | 160 | 410 | 60 | 290 | 230 | 140 | 60 |
| Management and Commerce | 340 | 480 | 210 | 420 | 300 | 350 | 55 |
| Creative Arts | 85 | 70 | 150 | 130 | 95 | 200 | 20 |
| Blended\Other | 151 | 245 | 169 | 163 | 132 | 131 | 26 |
| Agriculture, Environmental and Related Studies | 18 | 170 | 50 | 110 | 75 | 120 | 0 |

# Support Services
# NZ Qualification Levels: Level 1-3
# Field of study for 15 to 29 year olds as at 2019




| | Male | Female |
|---|---|---|
| Society and Culture | 320 | 200 |
| Management and Commerce | 260 | 450 |
| Information Technology | 85 | 55 |
| Health | 120 | 100 |
| Food, Hospitality and Personal Services | 280 | 280 |
| Engineering and Related Technologies | 1,600 | 120 |
| Creative Arts | 70 | 65 |
| Blended/Other | 12,269 | 7,062 |
| Agriculture, Environmental and Related Studies | 1,200 | 170 |

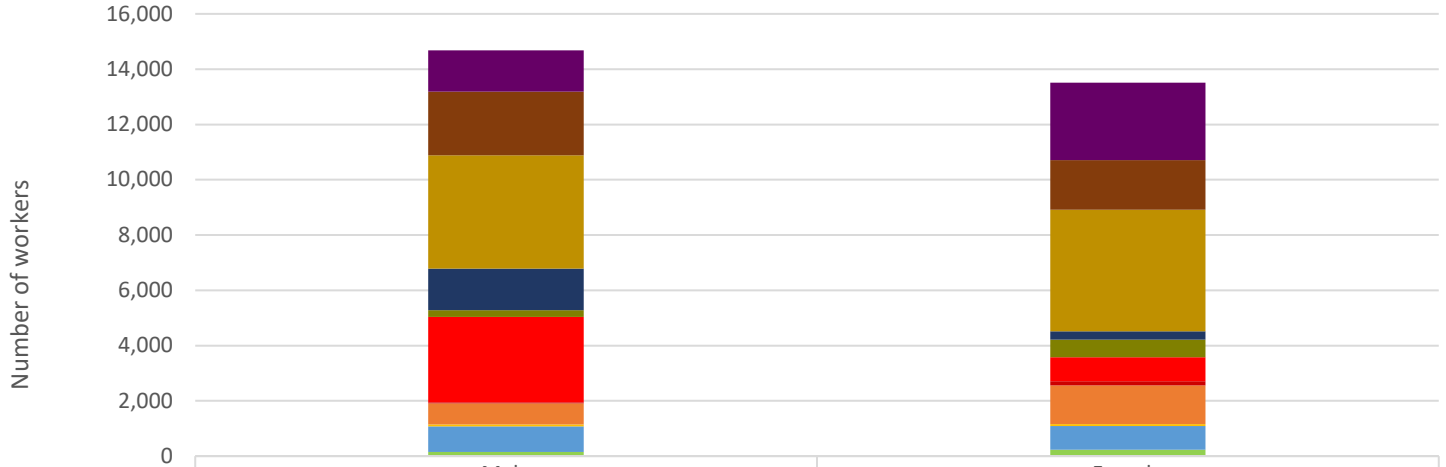
# Support Services
# NZ Qualification Levels: Level 4-6
# Field of study for 15 to 29 year olds as at 2019




| | Male | Female |
|---|---|---|
| Society and Culture | 450 | 420 |
| Natural and Physical Sciences | 50 | 55 |
| Management and Commerce | 670 | 910 |
| Information Technology | 800 | 120 |
| Health | 160 | 850 |
| Food, Hospitality and Personal Services | 200 | 350 |
| Engineering and Related Technologies | 1900 | 110 |
| Education | 20 | 25 |
| Creative Arts | 370 | 260 |
| Blended/Other | 700 | 330 |
| Architecture and Building | 720 | 160 |
| Agriculture, Environmental and Related Studies | 290 | 110 |

# Support Services
# NZ Qualification Levels: Level 7 and above
# Field of study for 15 to 29 year olds as at 2019

Field of Study for 15-29 year olds working in Primary industries support services with a level 7 and above qualification in 2019




| | Male | Female |
|---|---|---|
| Society and Culture | 1,500 | 2,800 |
| Natural and Physical Sciences | 2,300 | 1,800 |
| Management and Commerce | 4,100 | 4,400 |
| Information Technology | 1,500 | 300 |
| Health | 240 | 640 |
| Engineering and Related Technologies | 3,100 | 860 |
| Education | 30 | 150 |
| Creative Arts | 770 | 1,400 |
| Blended/Other | 64 | 75 |
| Architecture and Building | 930 | 850 |
| Agriculture, Environmental and Related Studies | 150 | 240 |

# Demographic data

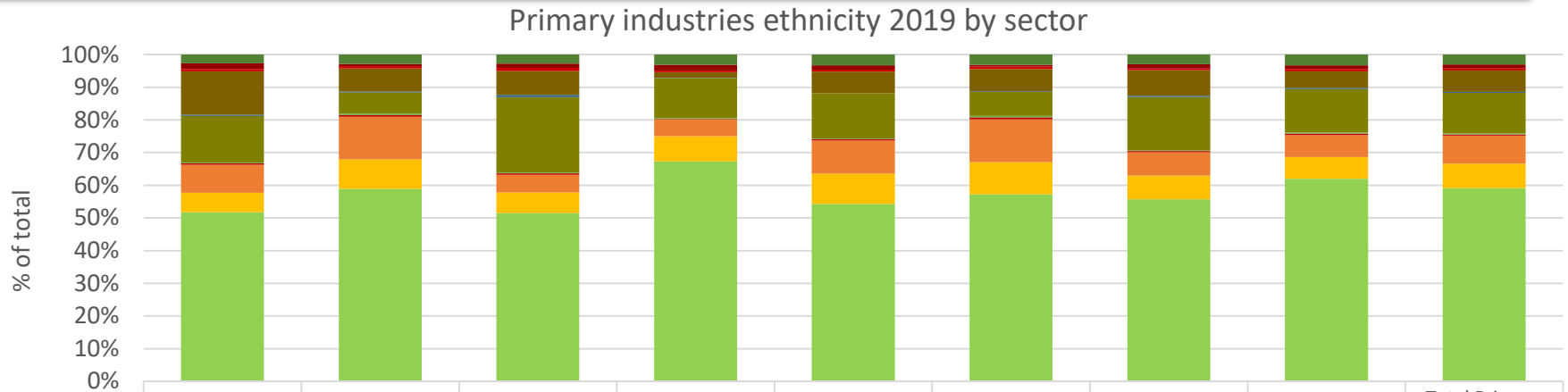
This section provides some additional demographic data for the primary industries, including ethnicity, age profile and employment status (employee or employer/self employed).

The first graph compares the ethnicity of each sector with the general population. The following graphs provide further analysis for the general population and for each sector separated out by age categories. Because the number of people in each age cohort is relatively small, care is needed in assessing the graphs as an ethnic group may be present in the age cohort but at a level beneath the Statistics NZ minimum threshold for confidentiality requirements (six or more for a category), and therefore not be included in the reporting.

While it appears that there are variations, especially in the age profile of the different sectors, care is needed in interpreting the graphs, as the scale varies between each graph, given the relative sizes of the individual sectors.

One interesting inference is that for those involved in the production side of the primary industries, particularly in the case of Dairy, Arable and Seafood, there appear to be significantly higher proportions of people who are self-employed/employers compared to the processing/commercialisation side of the industry, and compared to the general population.

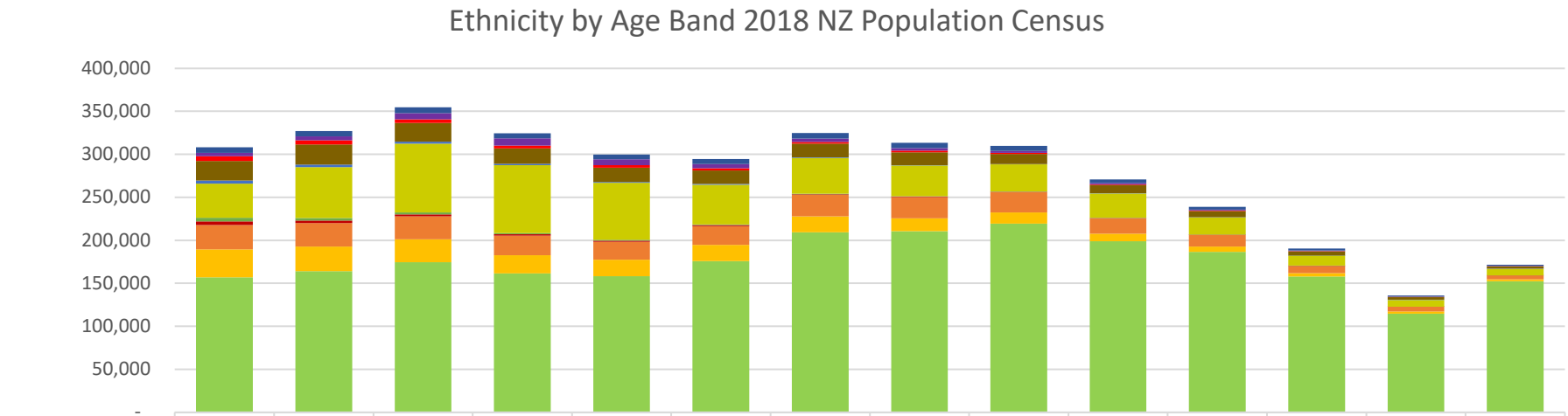
# Ethnicity by sector (proportion)




| | Horticulture | Red Meat & Wool | Arable | Dairy | Seafood | Forestry | Other Primary | Support Services | Total Primary Industry Population |
|---|---|---|---|---|---|---|---|---|---|
| Other | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% |
| MELAA | 2% | 1% | 1% | 2% | 1% | 1% | 1% | 1% | 1% |
| Pacific Peoples/ European | 0.6% | 1% | 1% | 0.5% | 1% | 0.8% | 1% | 1% | 1% |
| Pacific Peoples | 13% | 7% | 7% | 2% | 7% | 6.8% | 8% | 5% | 7% |
| Asian/ European | 0.3% | 0.2% | 0.6% | 0.2% | 0.0% | 0.2% | 0.3% | 0.4% | 0.3% |
| Asian | 14% | 7% | 23% | 12% | 14% | 7% | 16% | 13% | 12% |
| Pacific Peoples/ Maori/European | 0.3% | 0.4% | 0.3% | 0.2% | 0.2% | 0.4% | 0.2% | 0.4% | 0.3% |
| Maori/ Pacific Peoples | 0.5% | 0.5% | 0.4% | 0.2% | 0.4% | 0.6% | 0.4% | 0.4% | 0.4% |
| Maori | 9% | 13% | 5% | 5% | 10% | 13% | 7% | 7% | 9% |
| Maori/ European | 6% | 9% | 6% | 8% | 9% | 10% | 7% | 7% | 8% |
| European | 52% | 59% | 52% | 67% | 54% | 57% | 56% | 62% | 59% |

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: NZ Population Census

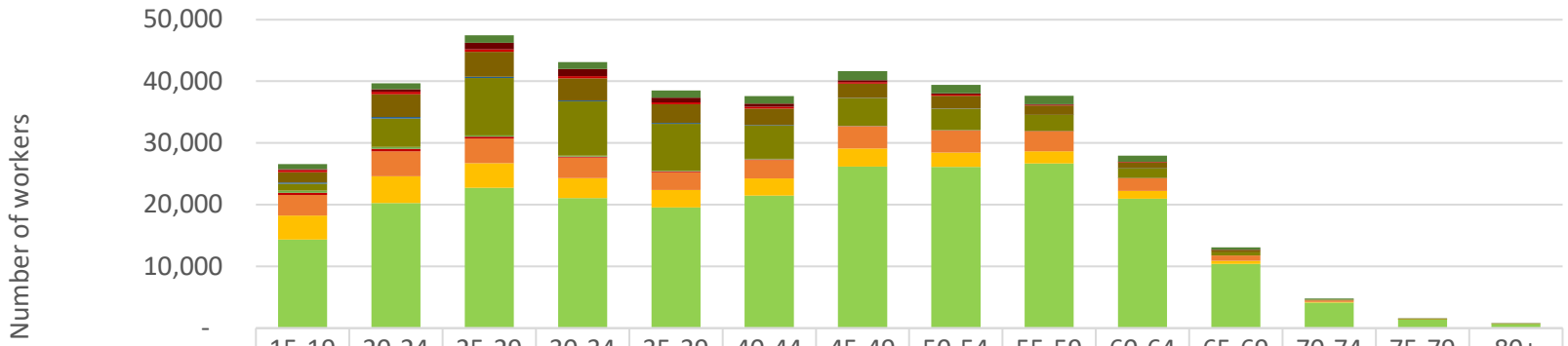



| | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other | 6,615 | 6,129 | 6,567 | 5,799 | 5,613 | 6,114 | 6,684 | 6,213 | 5,787 | 4,251 | 3,204 | 2,214 | 1,251 | 1,104 |
| MELAA | 3,729 | 4,587 | 7,398 | 8,304 | 6,972 | 4,692 | 3,660 | 2,898 | 2,250 | 1,611 | 1,074 | 681 | 384 | 429 |
| Pacific Islander/ European | 5,616 | 4,830 | 4,056 | 3,201 | 2,793 | 2,580 | 2,241 | 1,797 | 1,383 | 921 | 567 | 348 | 222 | 252 |
| Pacific Islander | 22,743 | 23,412 | 21,819 | 17,949 | 16,500 | 15,702 | 15,822 | 15,000 | 11,715 | 9,159 | 7,131 | 4,788 | 3,189 | 2,829 |
| Asian/ European | 3,624 | 2,898 | 2,325 | 1,569 | 1,212 | 969 | 765 | 567 | 447 | 282 | 222 | 159 | 99 | 141 |
| Asian | 39,663 | 59,226 | 80,025 | 79,101 | 66,192 | 46,263 | 41,466 | 35,583 | 31,311 | 28,473 | 20,109 | 11,781 | 7,893 | 7,656 |
| Pacific Islander/ Maori/European | 4,146 | 2,865 | 2,112 | 1,374 | 987 | 744 | 534 | 402 | 297 | 225 | 117 | 78 | 24 | 42 |
| Maori/ Pacific | 4,368 | 3,195 | 2,541 | 1,749 | 1,485 | 1,074 | 738 | 570 | 450 | 267 | 126 | 57 | 48 | 27 |
| Maori | 28,158 | 27,234 | 26,406 | 22,515 | 20,541 | 21,765 | 25,176 | 24,870 | 23,688 | 18,087 | 13,512 | 8,451 | 5,529 | 4,524 |
| Maori/ European | 32,595 | 28,650 | 26,964 | 21,276 | 19,344 | 18,804 | 18,444 | 14,916 | 12,936 | 8,808 | 6,393 | 3,930 | 2,523 | 2,286 |
| European | 156,975 | 163,998 | 174,333 | 161,457 | 158,202 | 175,938 | 209,289 | 210,525 | 219,525 | 198,789 | 186,399 | 157,905 | 114,669 | 152,232 |

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: All Primary Industries

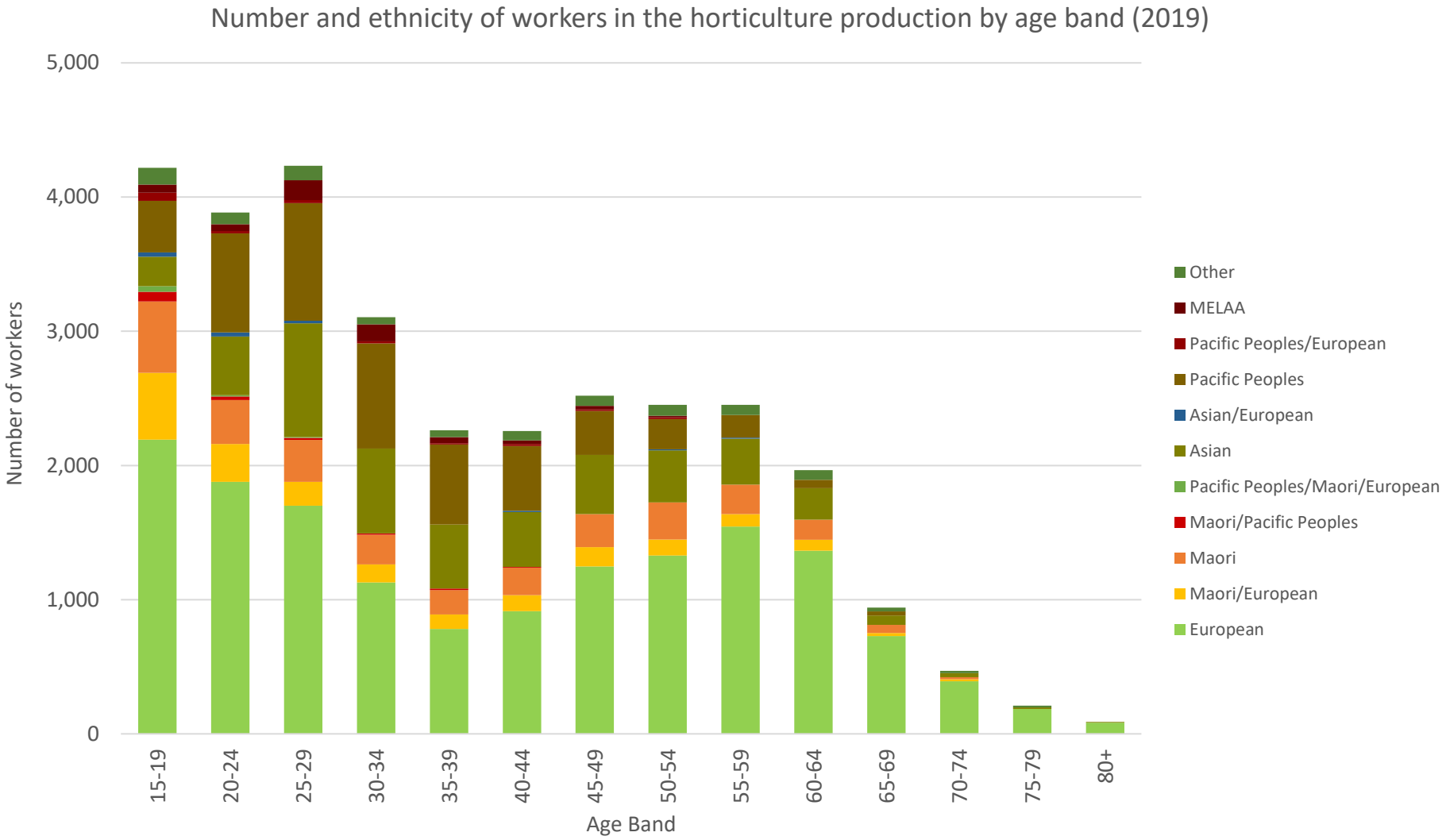
Number and ethnicity of workers in the primary industries by age band (2019)




| | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other | 789 | 981 | 1,203 | 1,098 | 1,140 | 1,194 | 1,473 | 1,383 | 1,377 | 999 | 402 | 117 | 36 | 9 |
| MELAA | 144 | 372 | 1,065 | 1,149 | 792 | 522 | 330 | 186 | 96 | 39 | 9 | - | - | - |
| Pacific Peoples/ European | 369 | 402 | 405 | 342 | 273 | 285 | 240 | 213 | 111 | 63 | 24 | - | - | - |
| Pacific Peoples | 1,680 | 3,708 | 4,035 | 3,609 | 3,045 | 2,697 | 2,331 | 2,076 | 1,500 | 912 | 366 | 75 | 12 | - |
| Asian/ European | 168 | 237 | 231 | 165 | 135 | 84 | 69 | 54 | 33 | 24 | - | - | - | - |
| Asian | 1,104 | 4,599 | 9,300 | 8,778 | 7,602 | 5,391 | 4,419 | 3,453 | 2,574 | 1,560 | 504 | 117 | 33 | 15 |
| Pacific Peoples/ Maori/ European | 354 | 327 | 210 | 141 | 90 | 63 | 57 | 27 | 12 | 9 | - | - | - | - |
| Maori/ Pacific Peoples | 387 | 369 | 294 | 186 | 183 | 114 | 75 | 45 | 39 | 15 | - | - | - | - |
| Maori | 3,315 | 4,083 | 3,963 | 3,324 | 2,844 | 3,000 | 3,564 | 3,522 | 3,288 | 2,085 | 855 | 216 | 12 | 9 |
| Maori/ European | 3,903 | 4,323 | 3,993 | 3,234 | 2,826 | 2,778 | 2,916 | 2,343 | 1,929 | 1,254 | 498 | 120 | 6 | - |
| European | 14,346 | 20,271 | 22,755 | 21,063 | 19,578 | 21,471 | 26,190 | 26,130 | 26,700 | 20,991 | 10,428 | 4,140 | 1,458 | 717 |

MELAA = Middle Eastern, Latin American and African

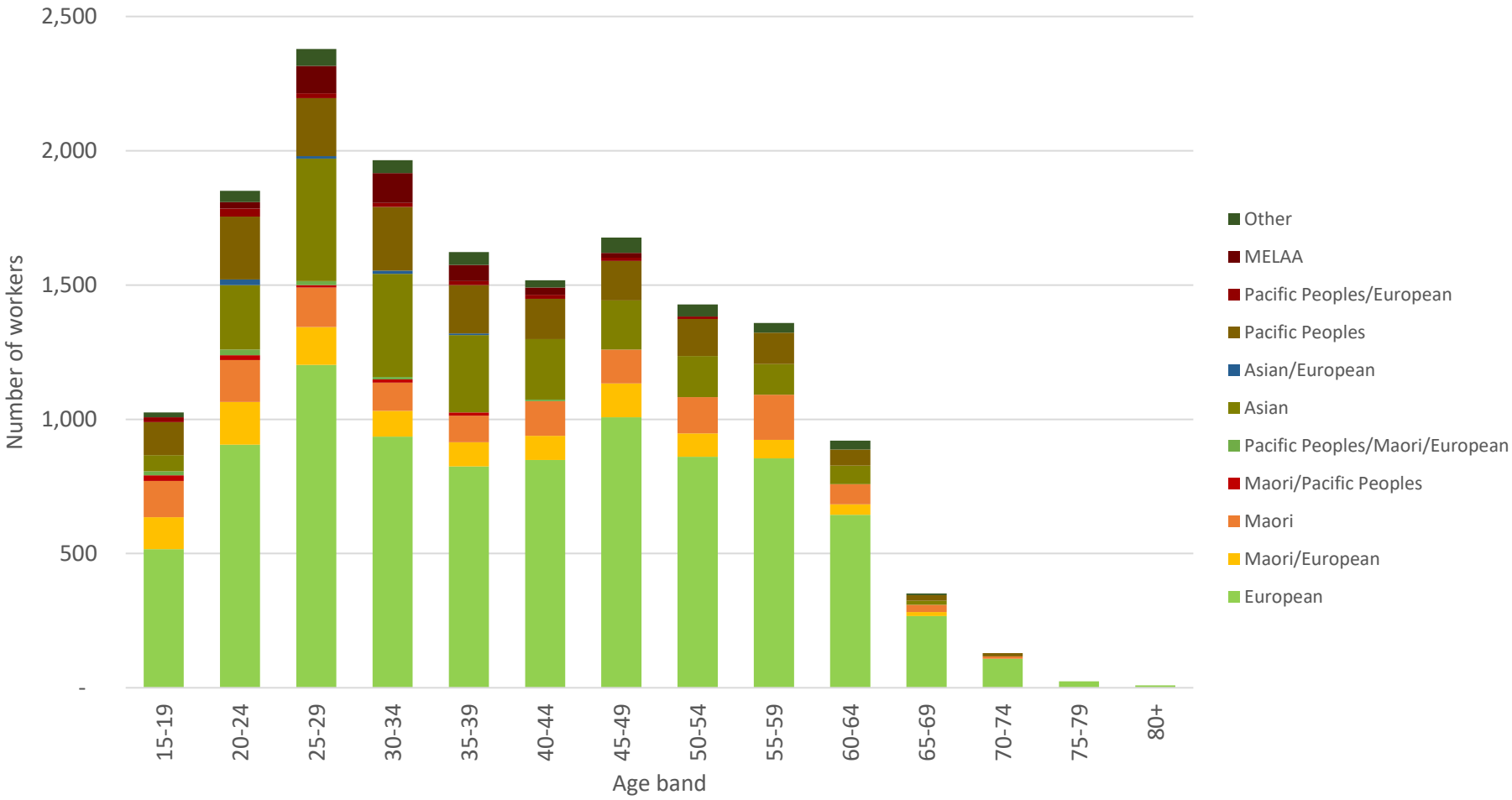
# Ethnicity by age band: Horticulture Production




MELAA = Middle Eastern, Latin American and African

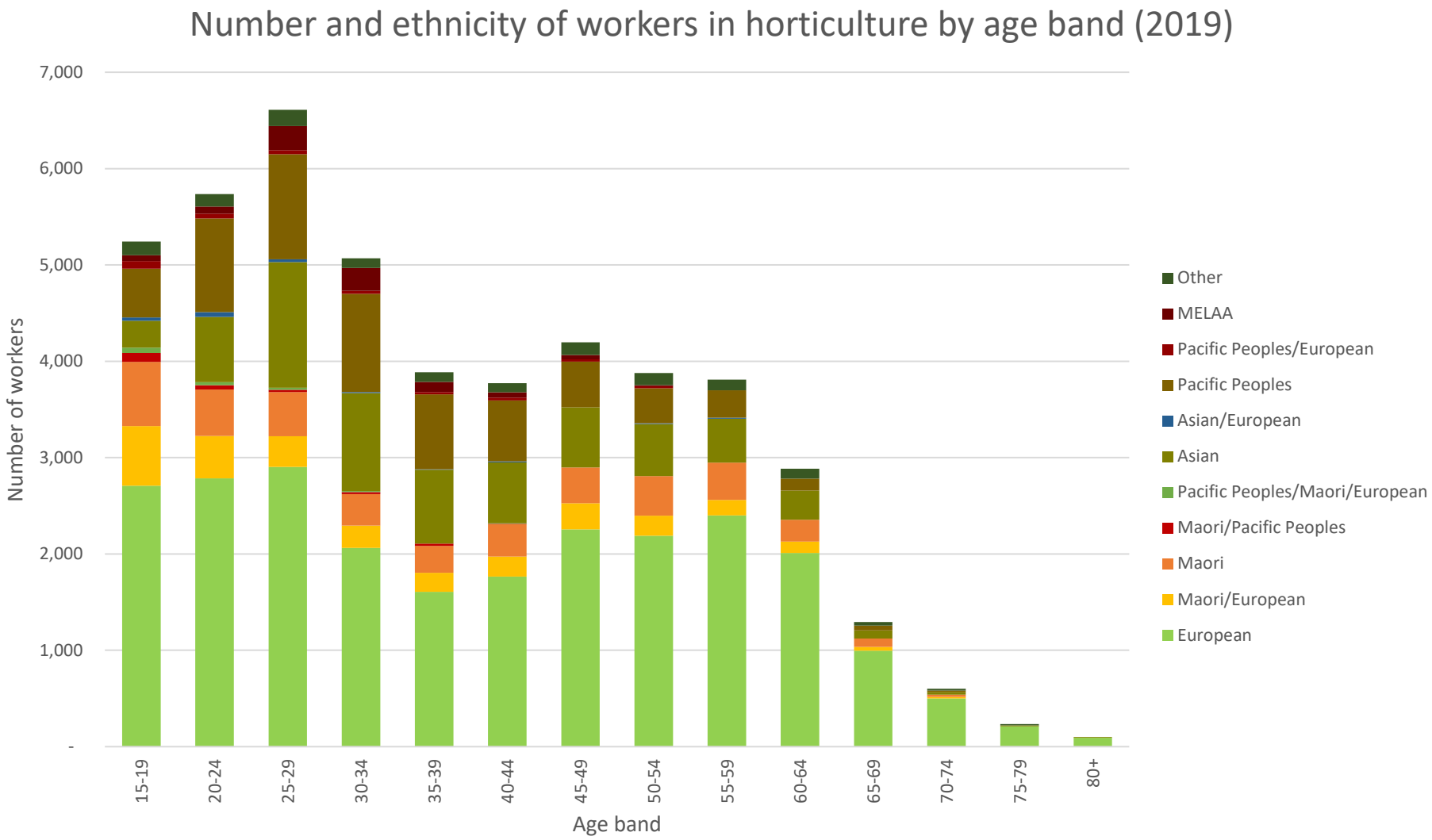
# Ethnicity by age band: Horticulture Processing/Commercialisation

Number and ethnicity of workers in the horticulture processing/commercialisation by age band (2019)



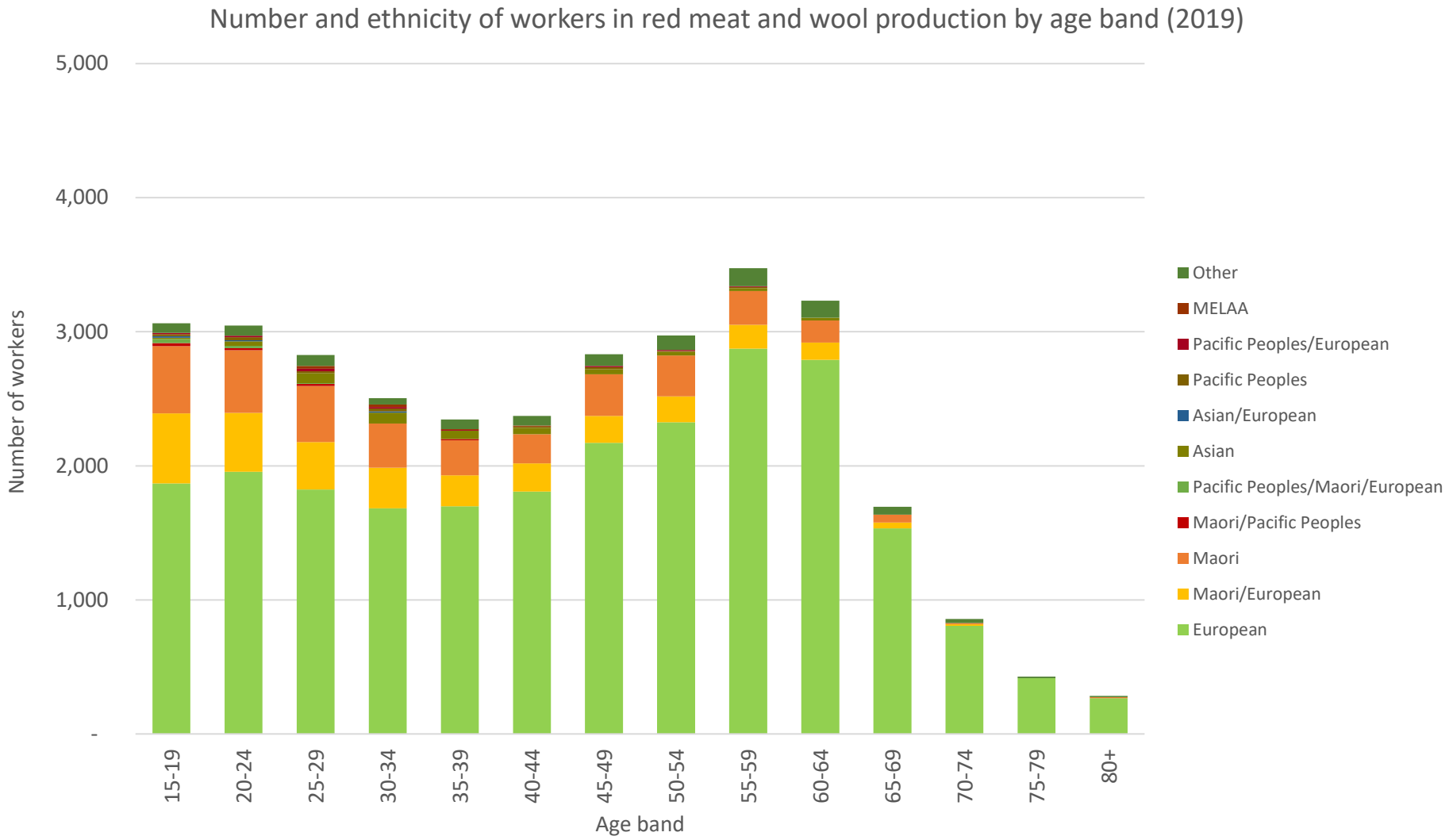

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Horticulture



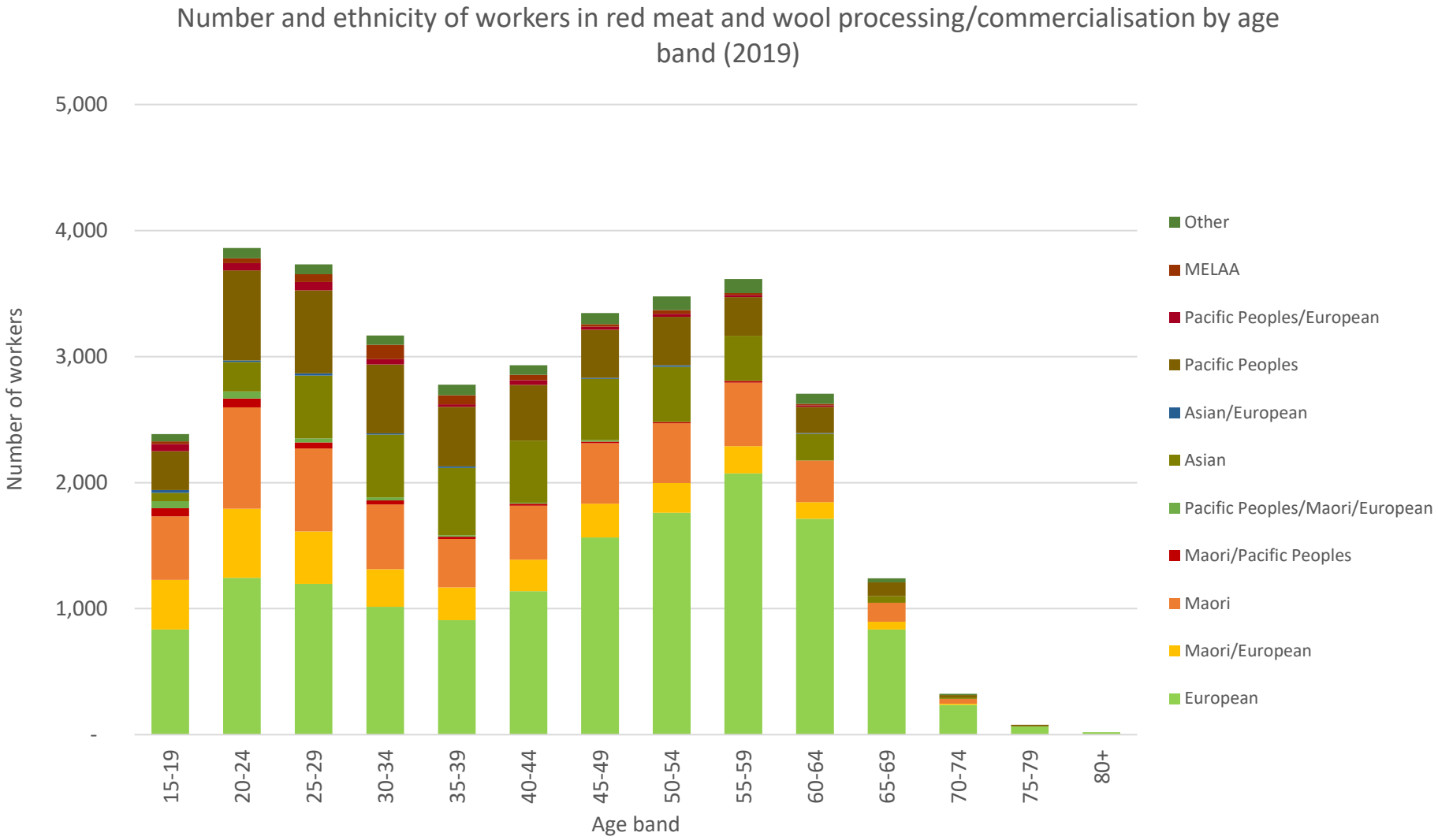

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Red Meat and Wool Production



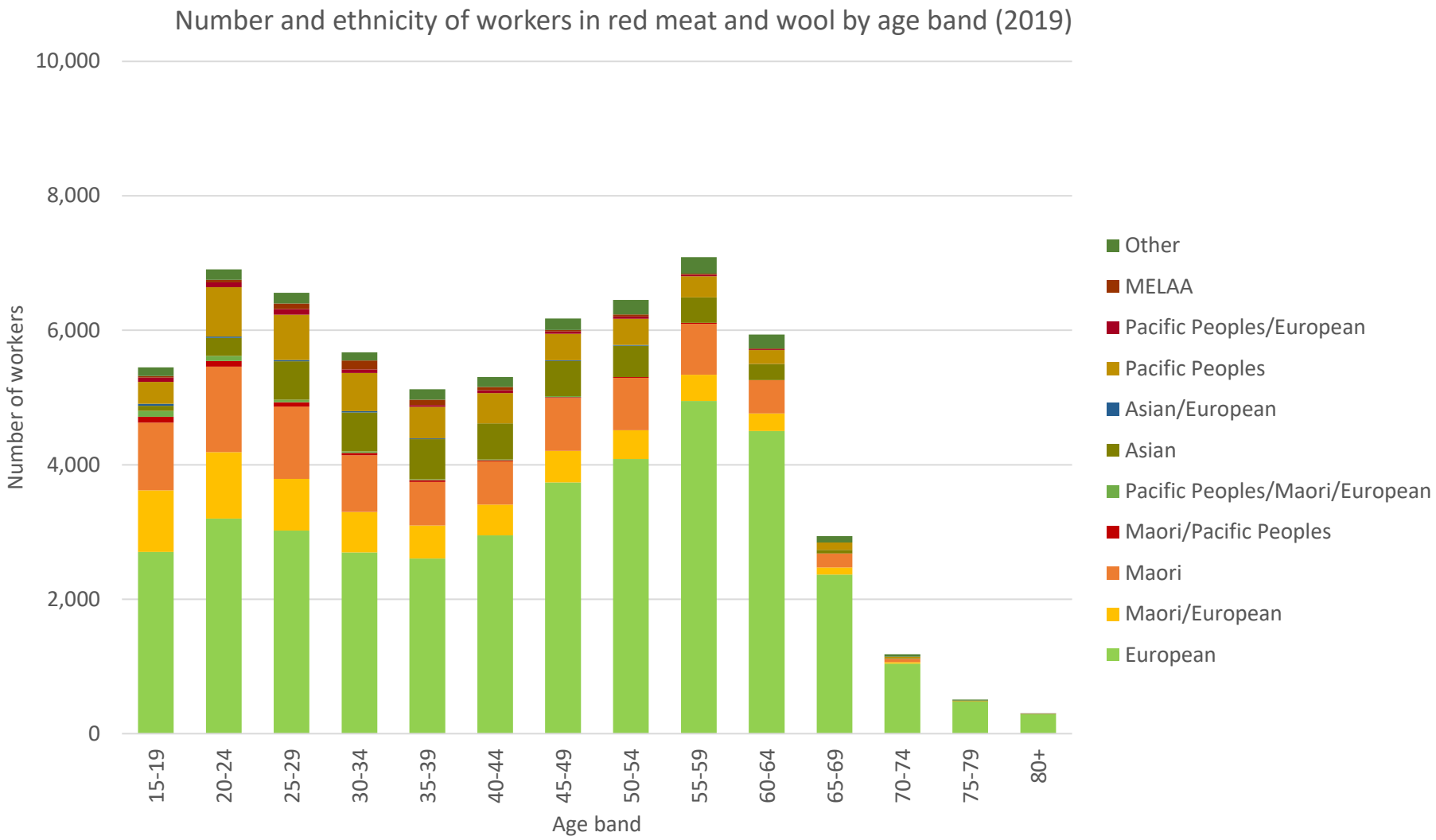

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band:
# Red Meat and Wool Processing/Commercialisation



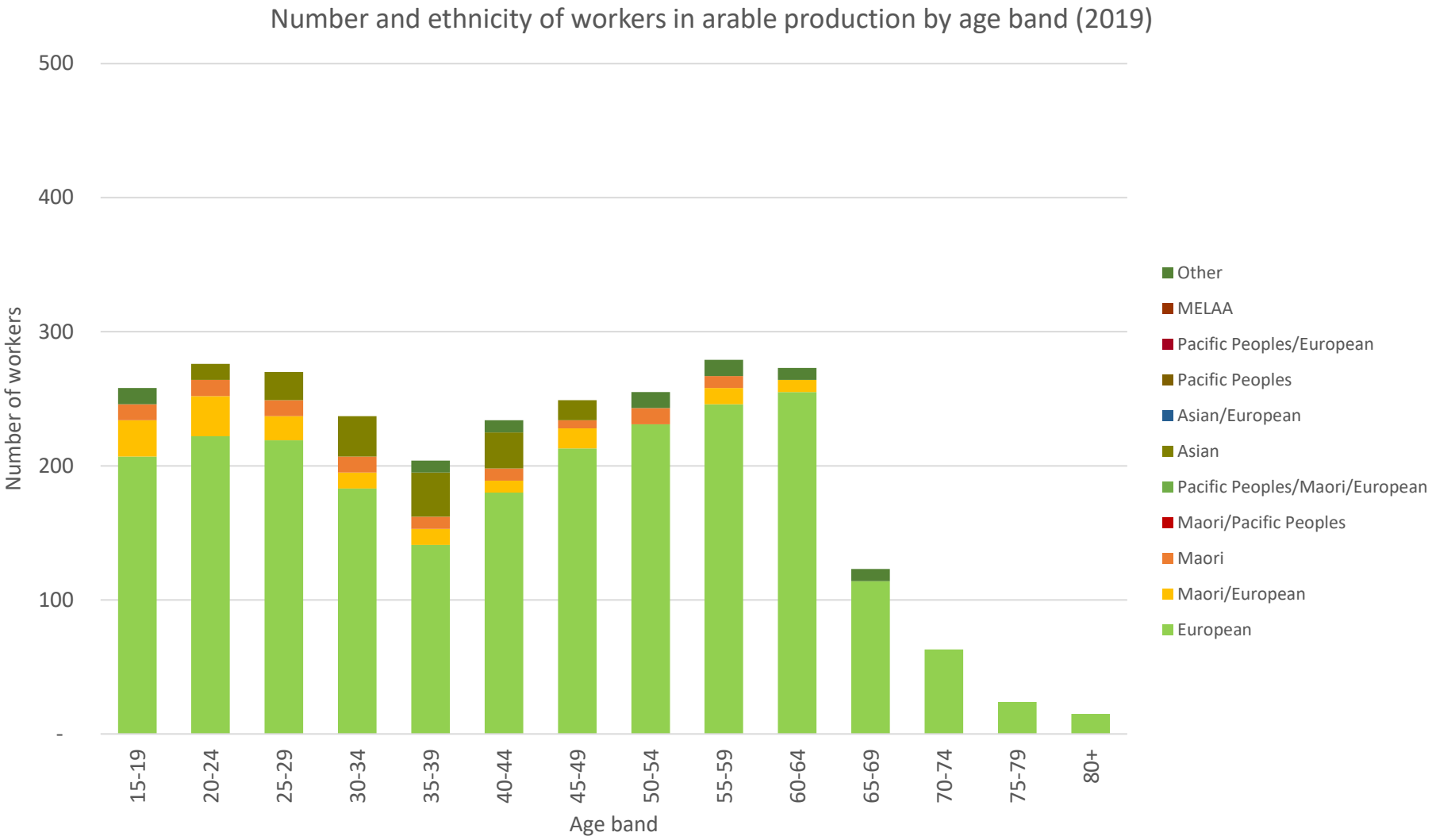

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Red Meat and Wool



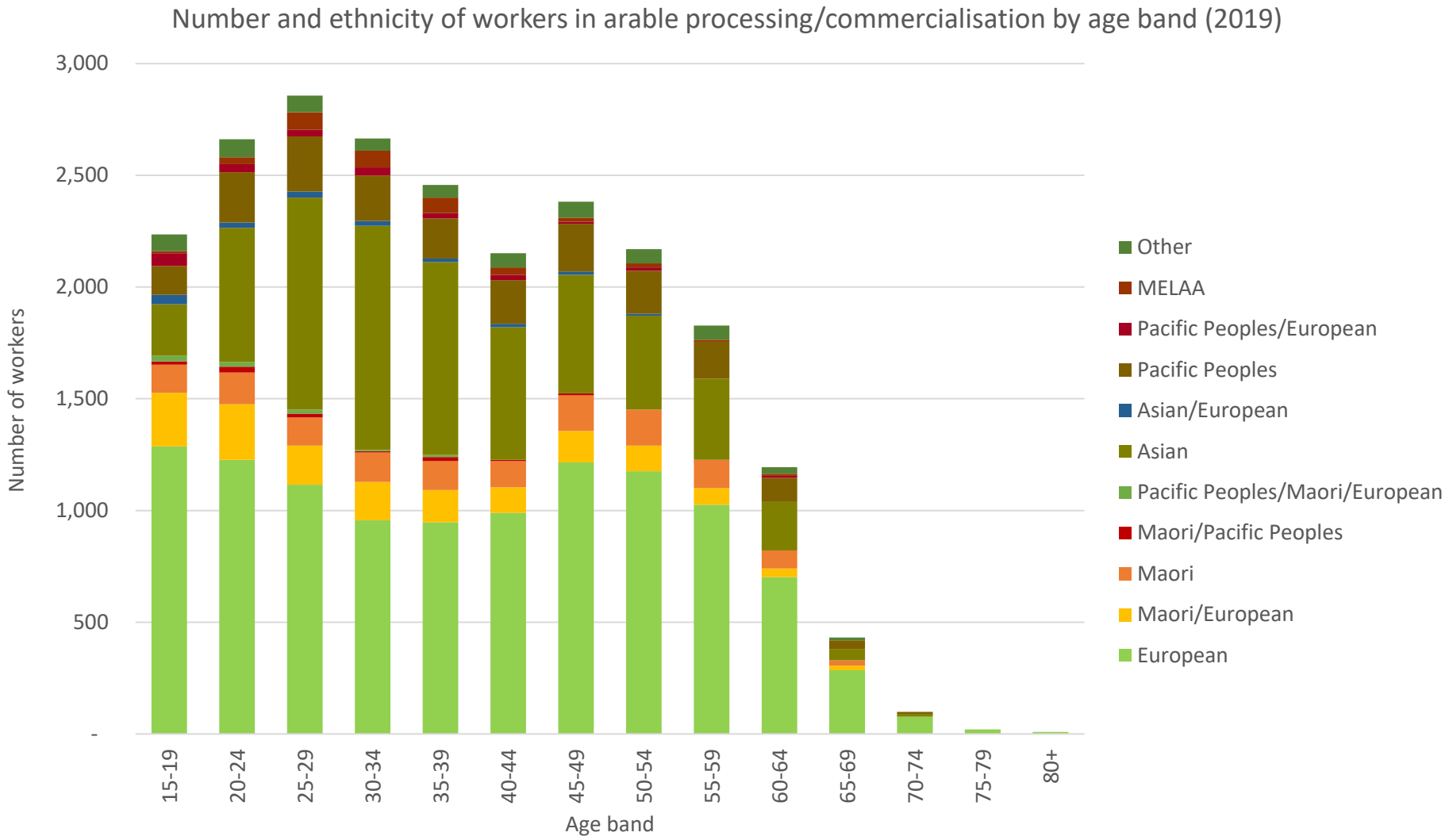

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Arable Production



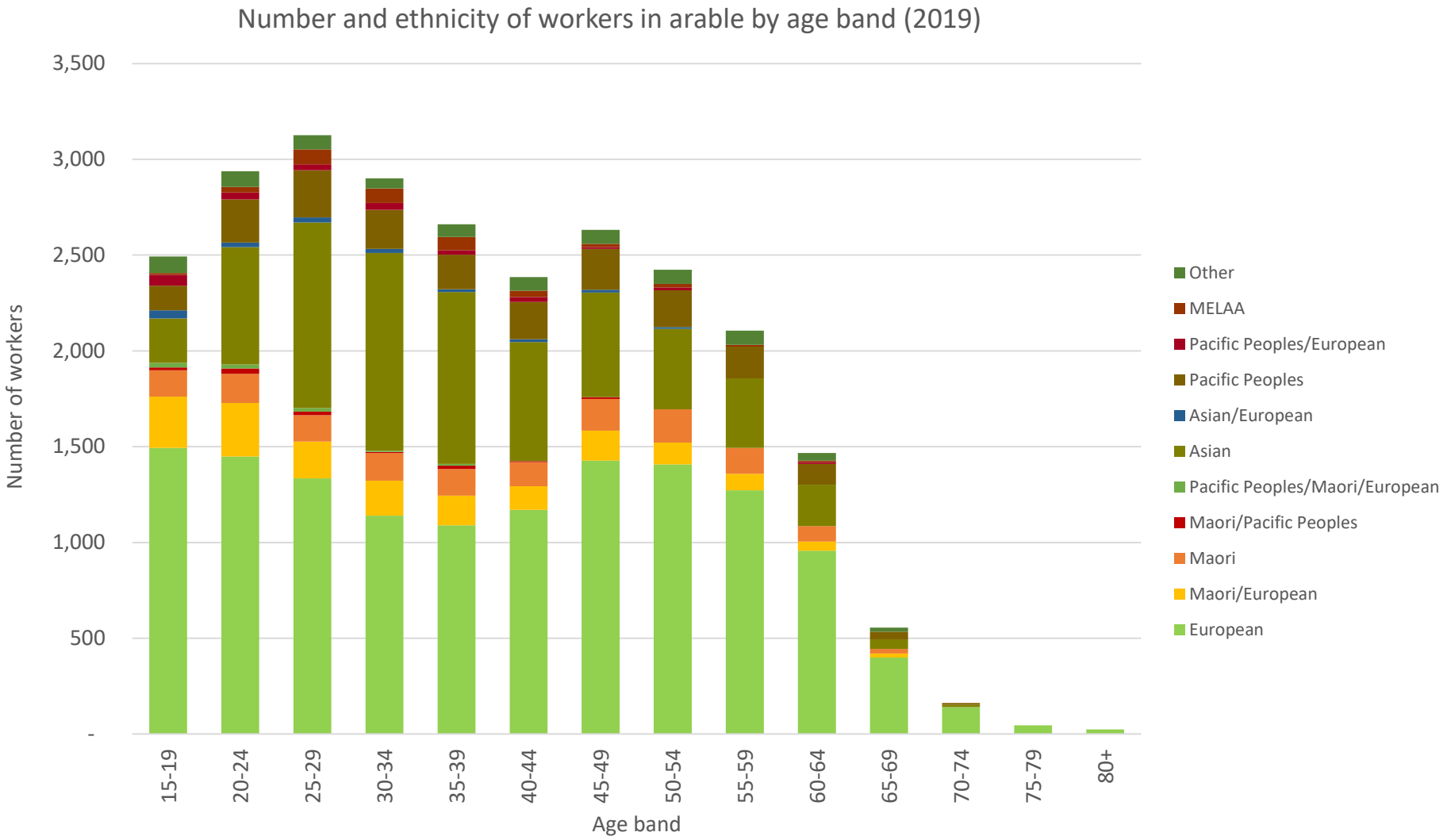

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Arable Processing/Commercialisation



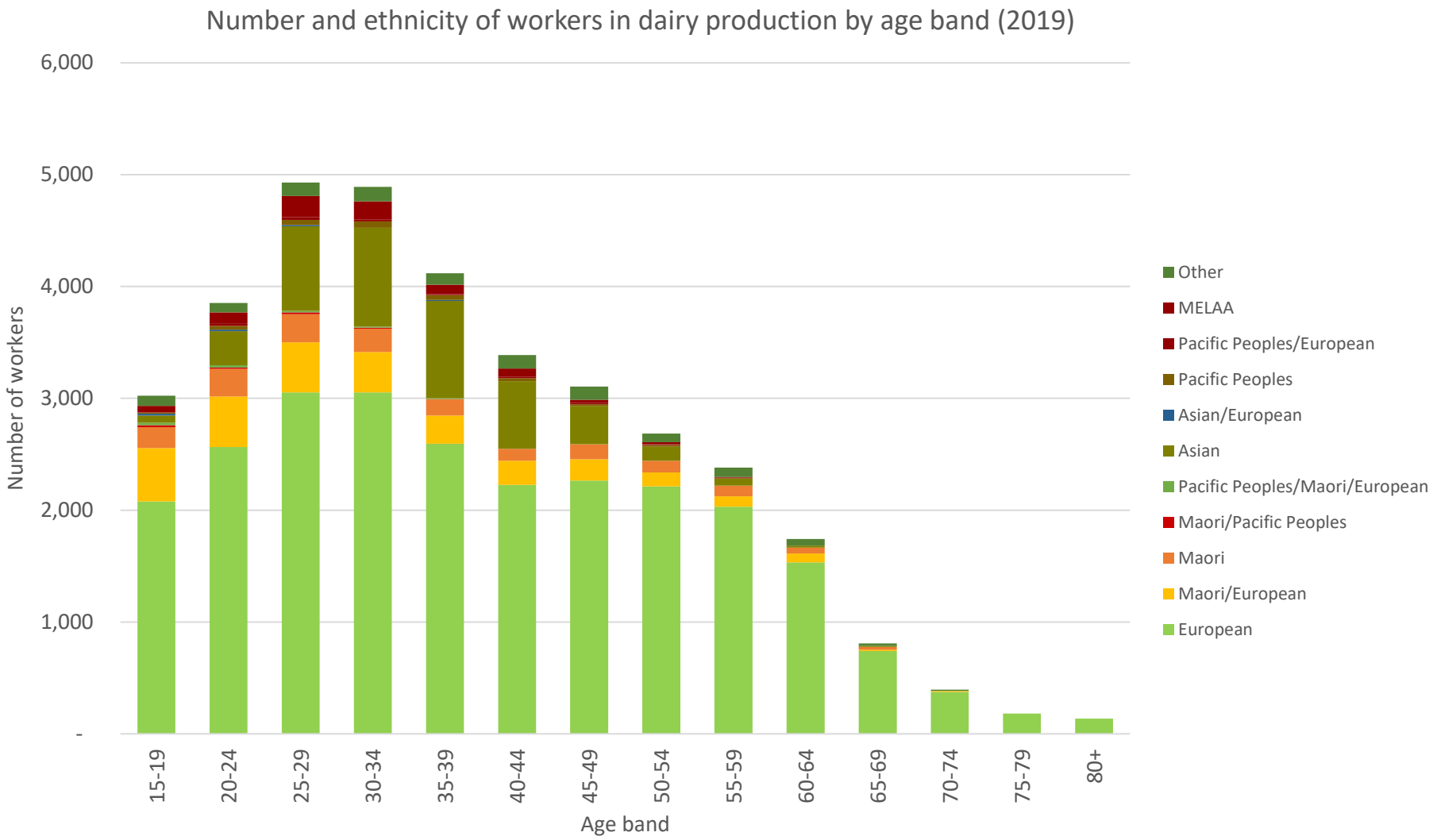

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Arable



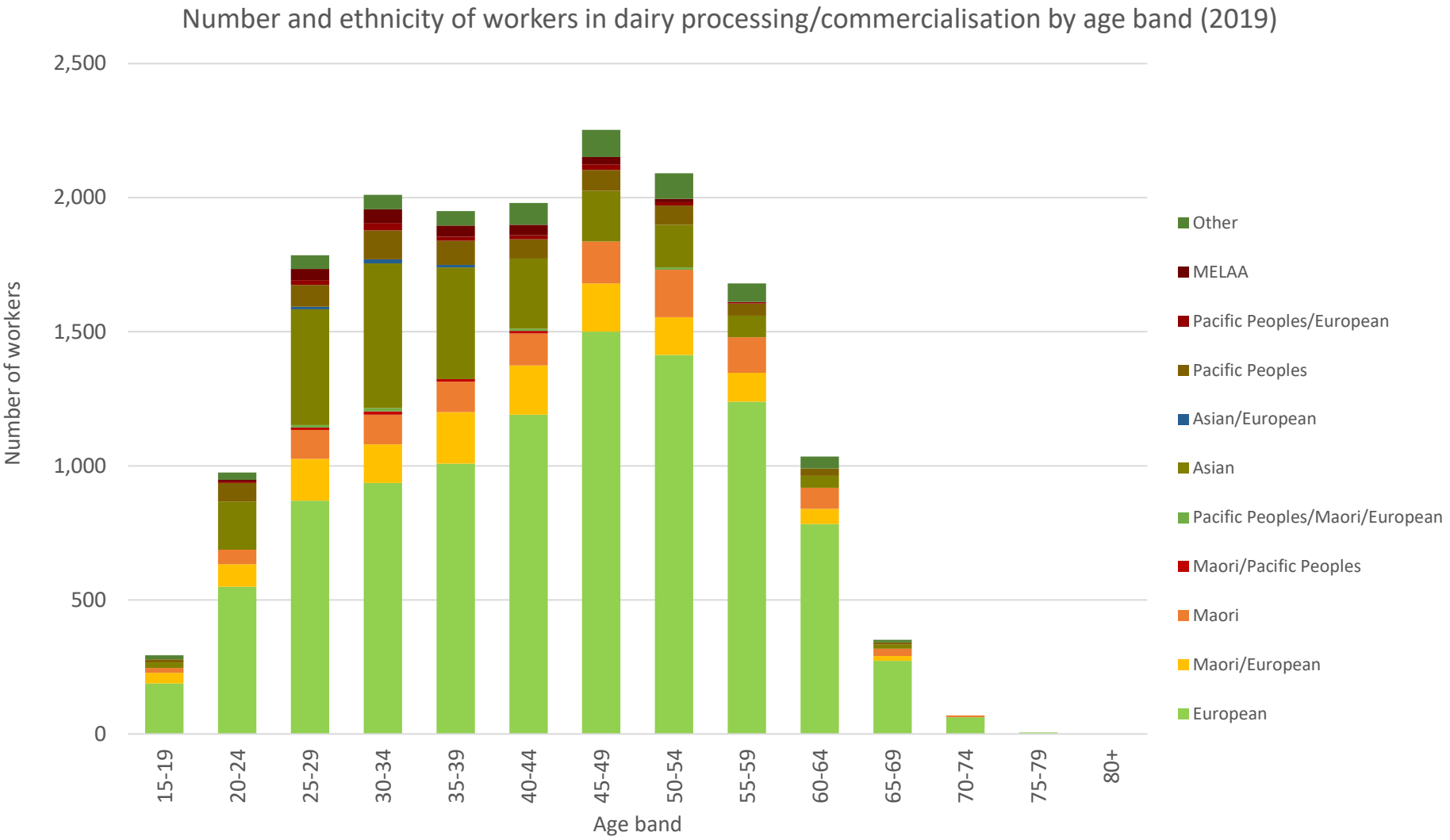

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Dairy Production



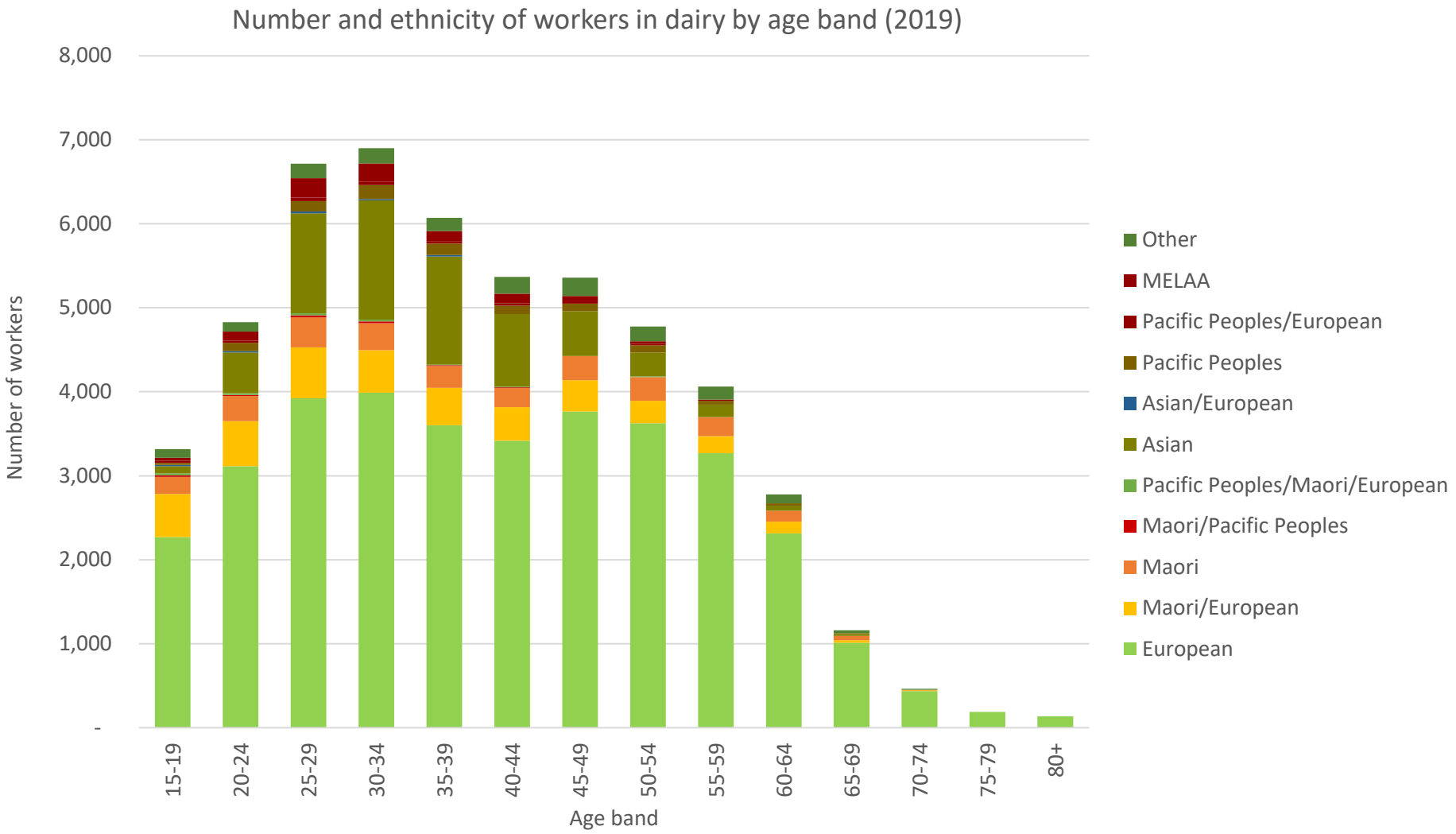

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Dairy Processing/Commercialisation



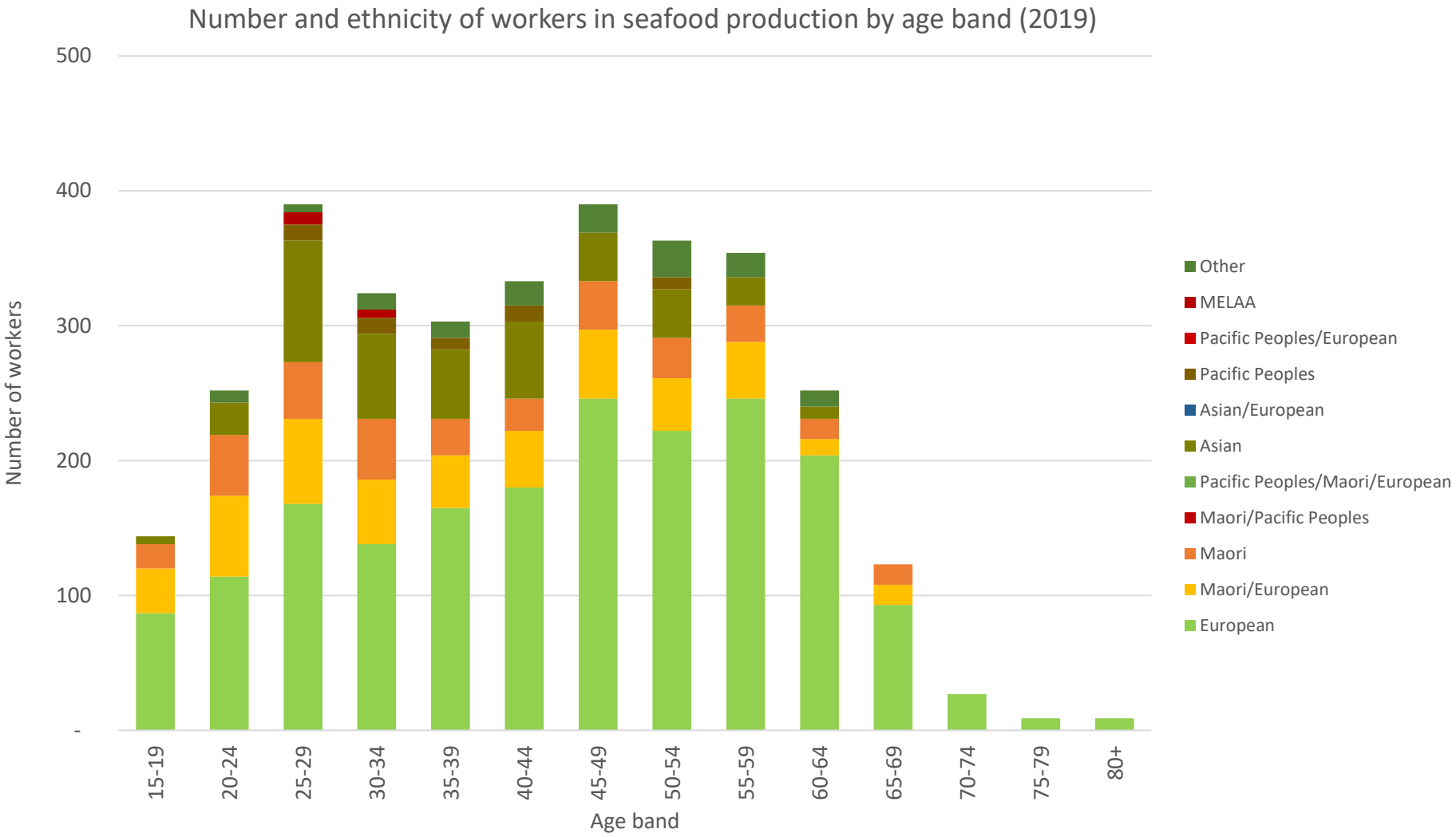

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Dairy



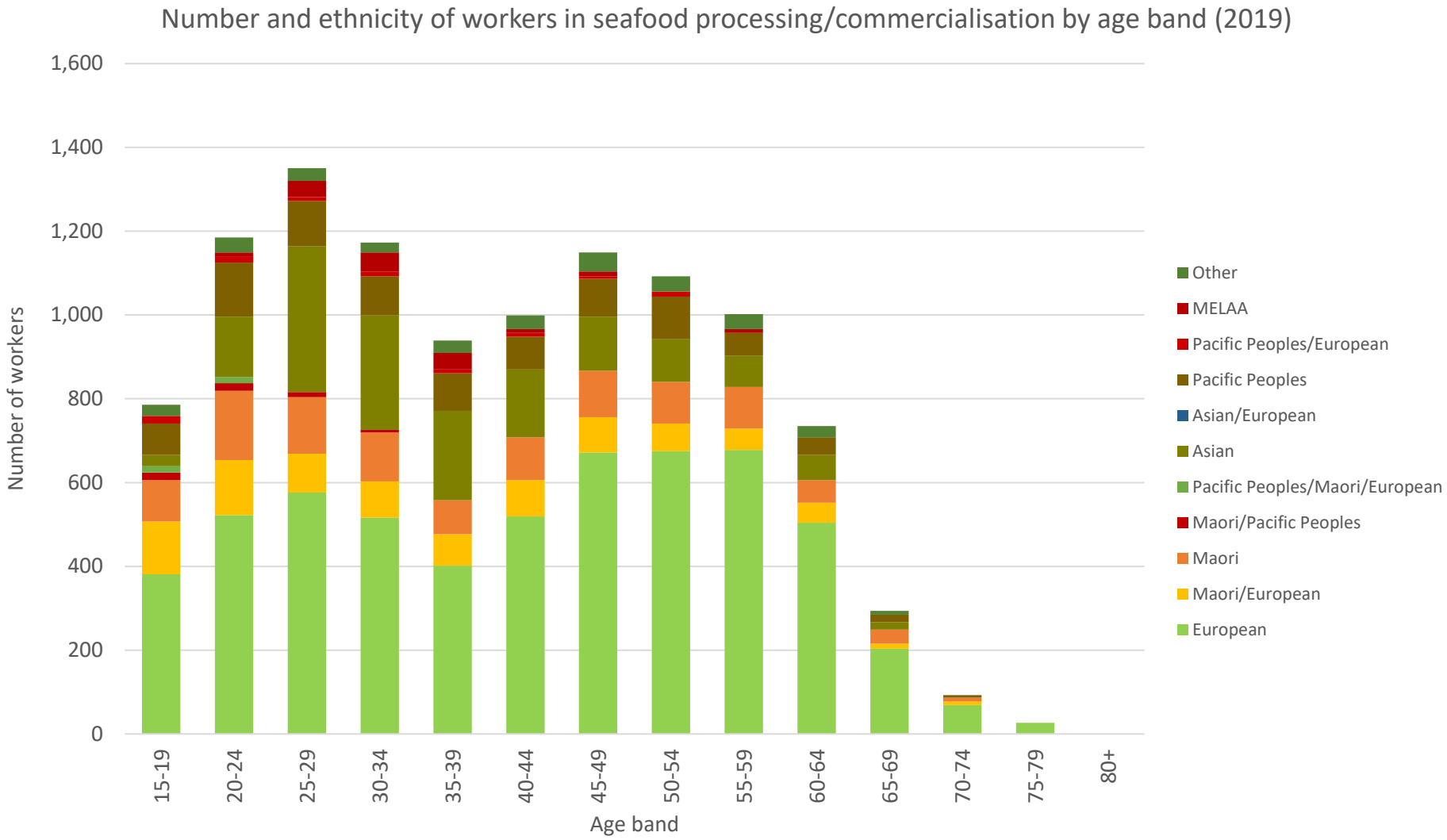

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Seafood Production



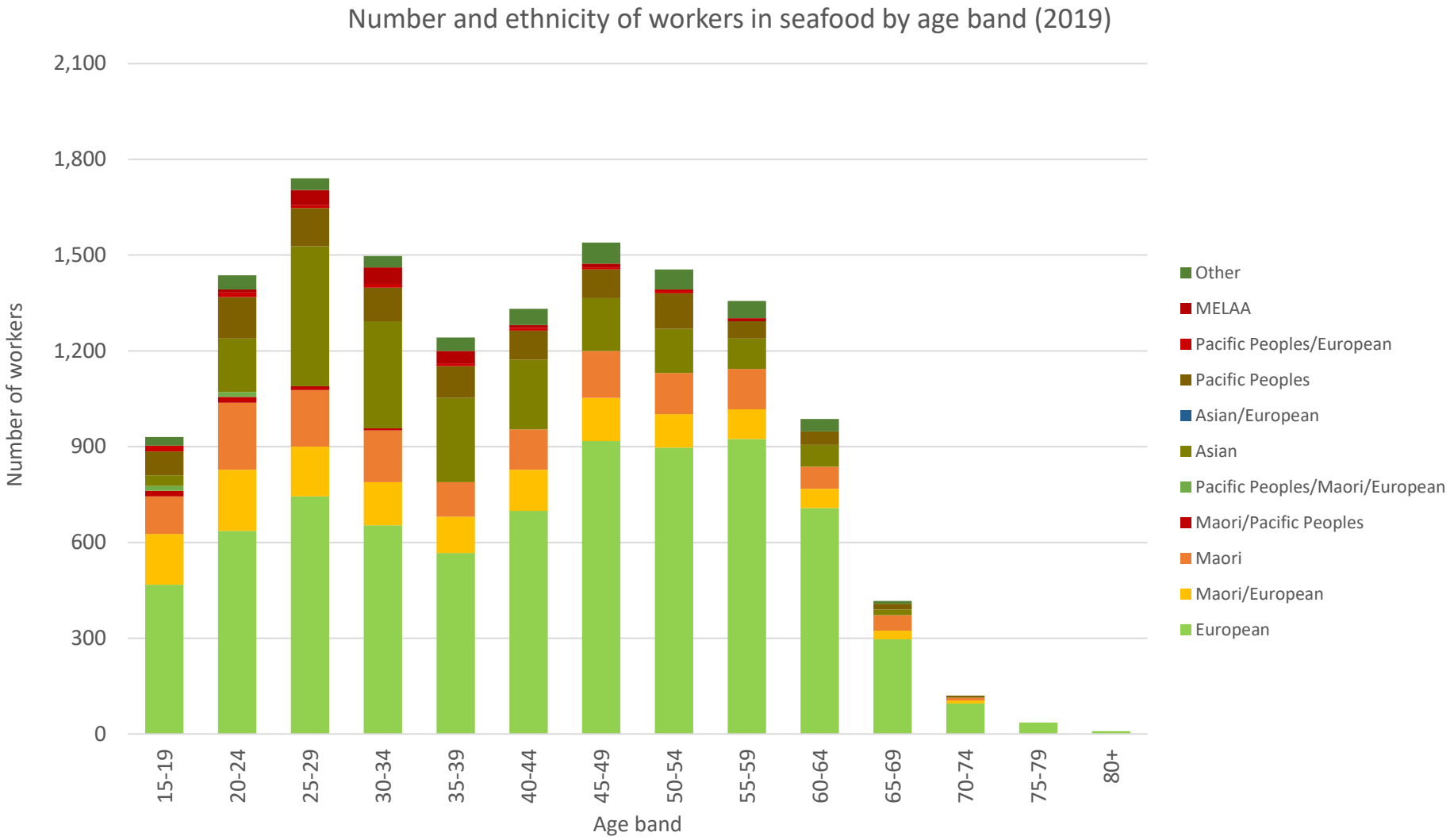

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Seafood Processing/Commercialisation




MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Seafood




MELAA = Middle Eastern, Latin American and African

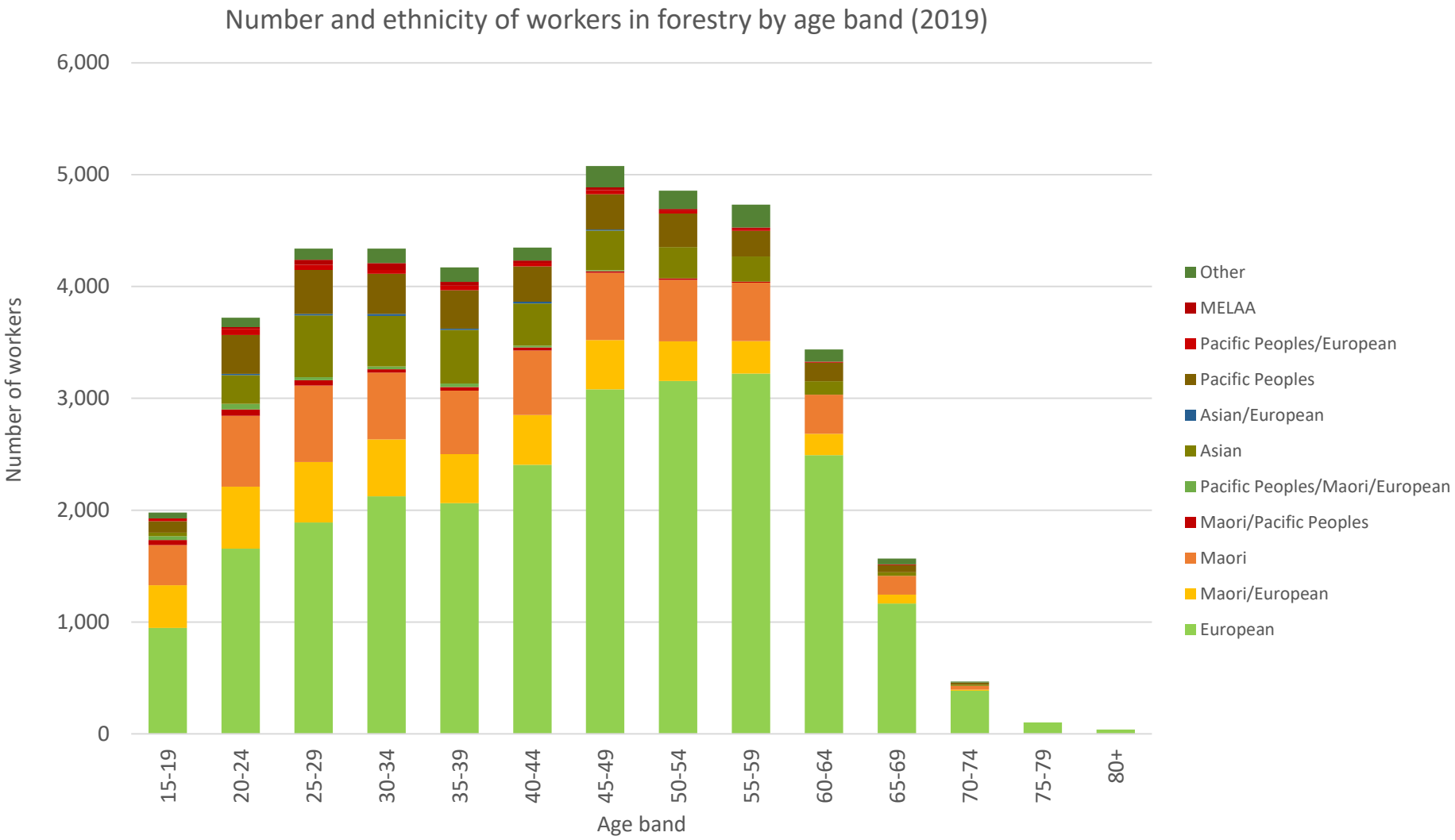
# Ethnicity by age band: Forestry Production

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Forestry Processing/Commercialisation

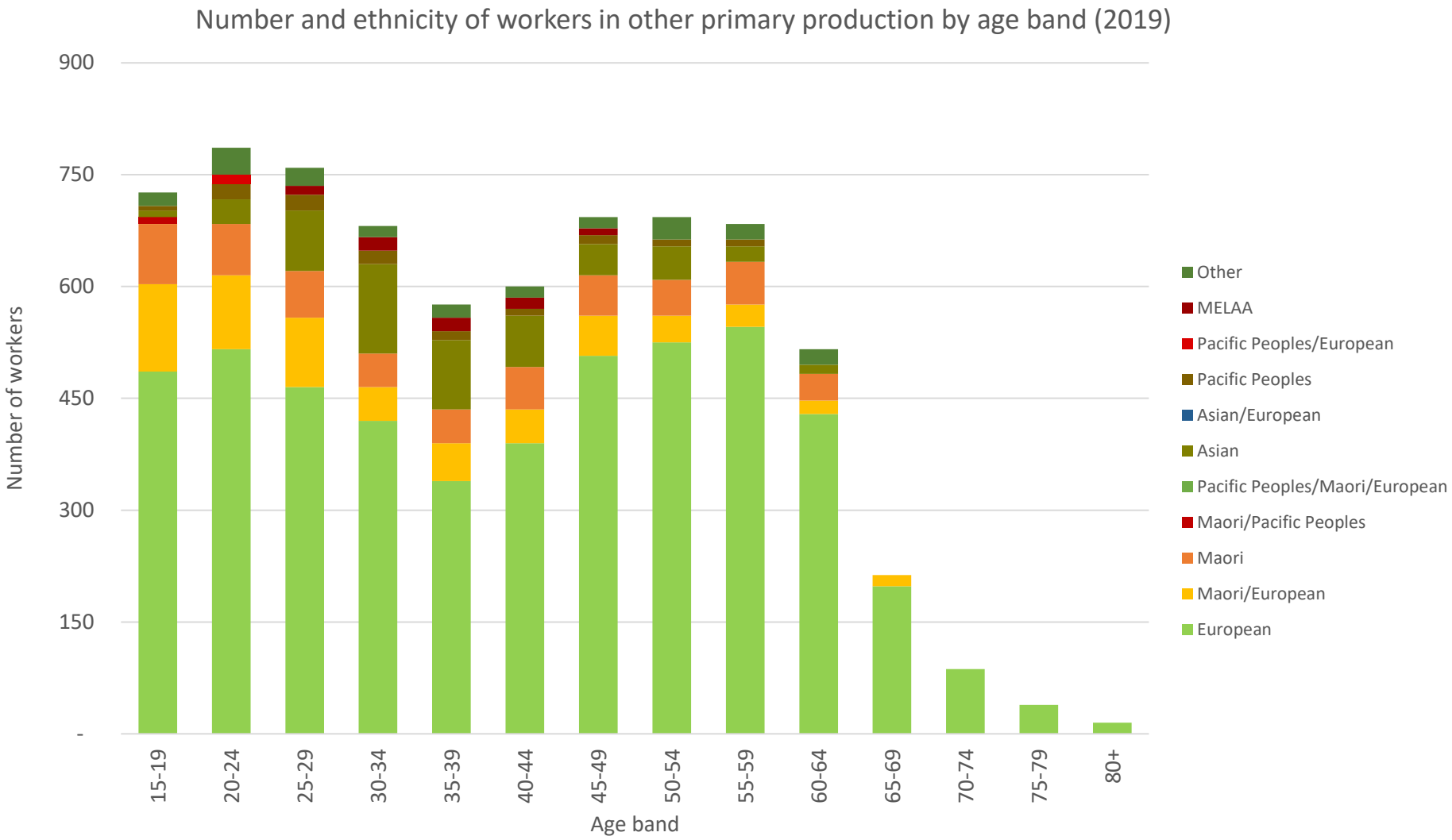
MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Forestry



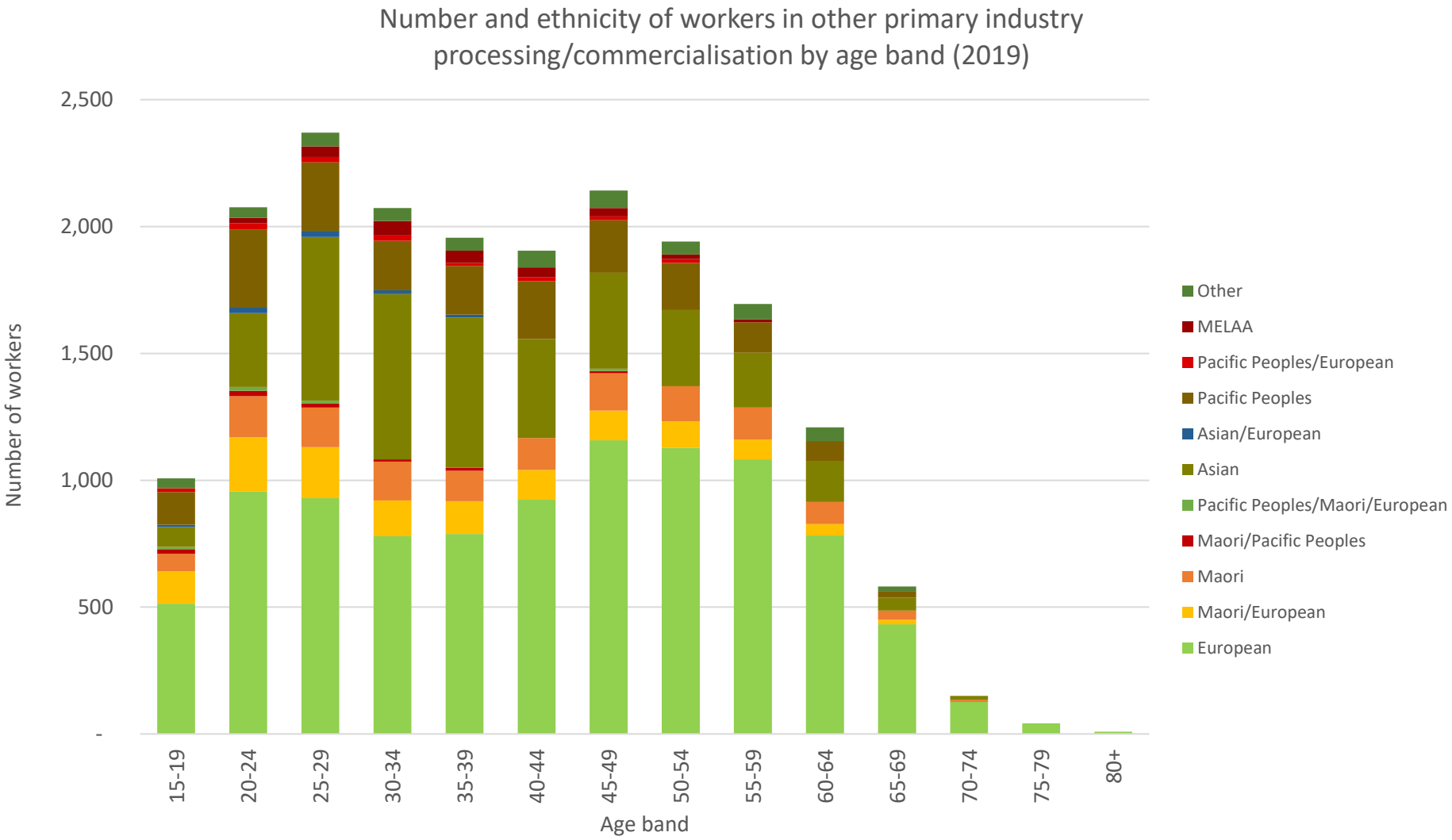

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Other Primary Production



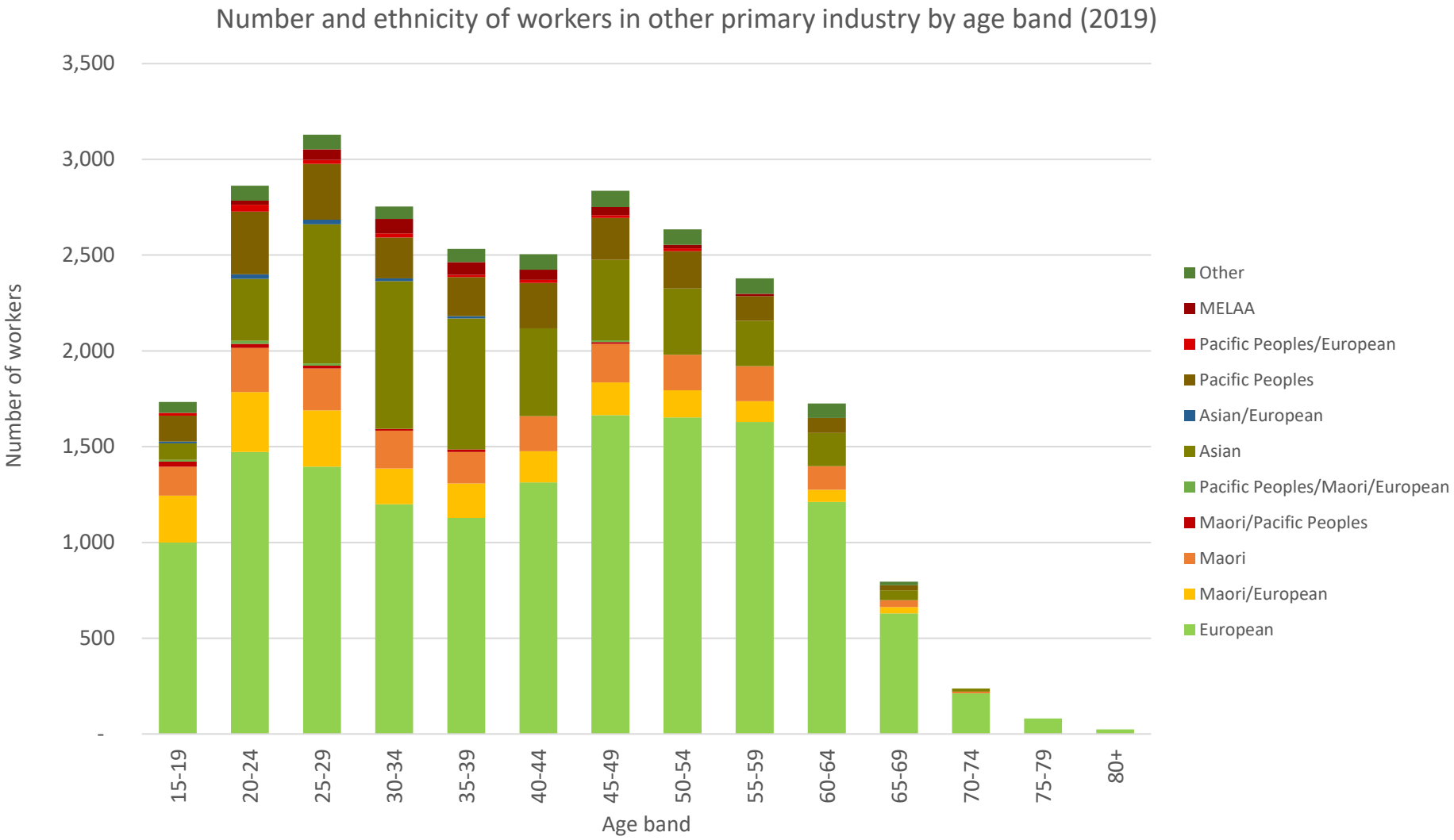

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band:
# Other Primary Processing/Commercialisation



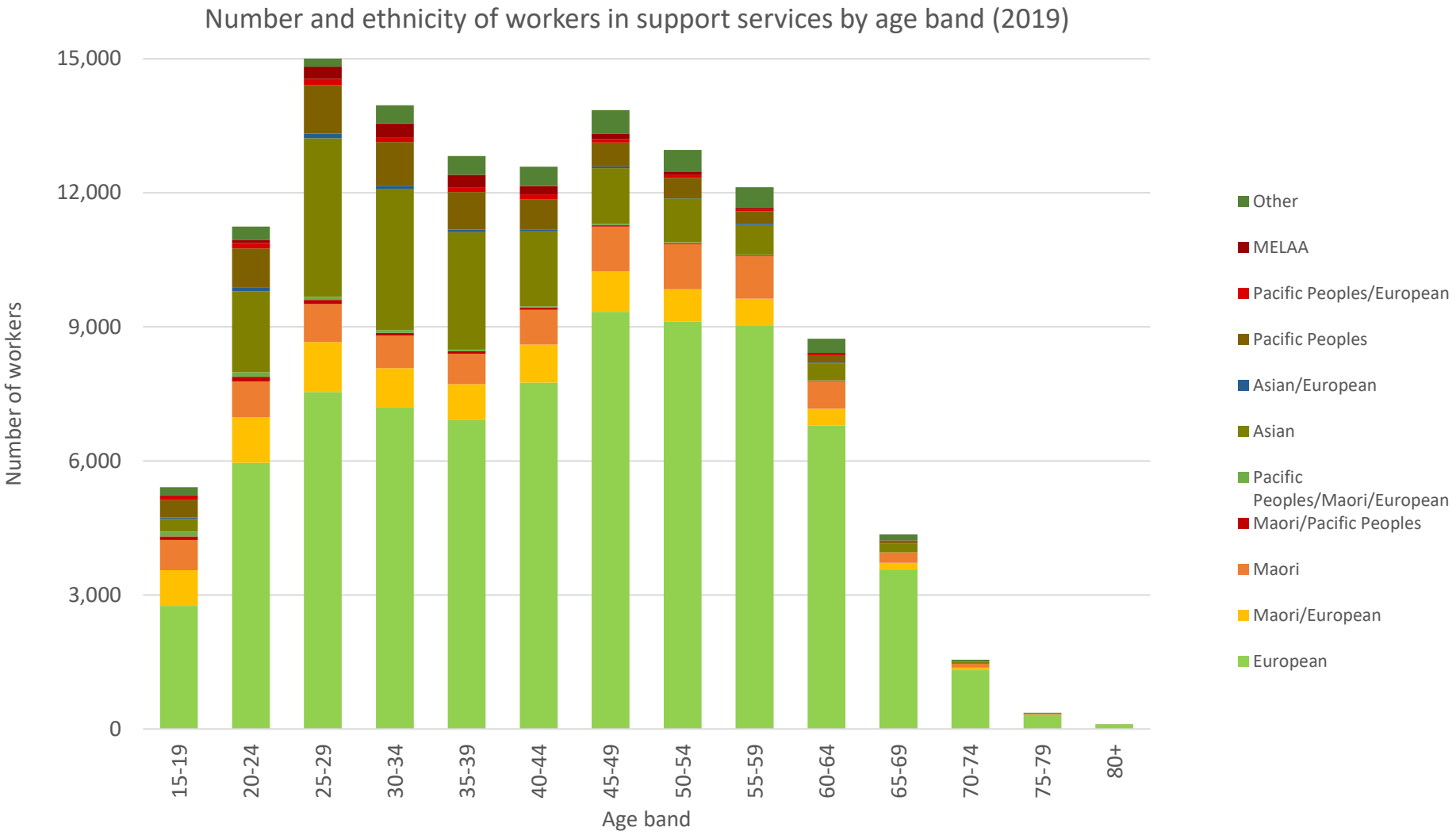

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Other Primary



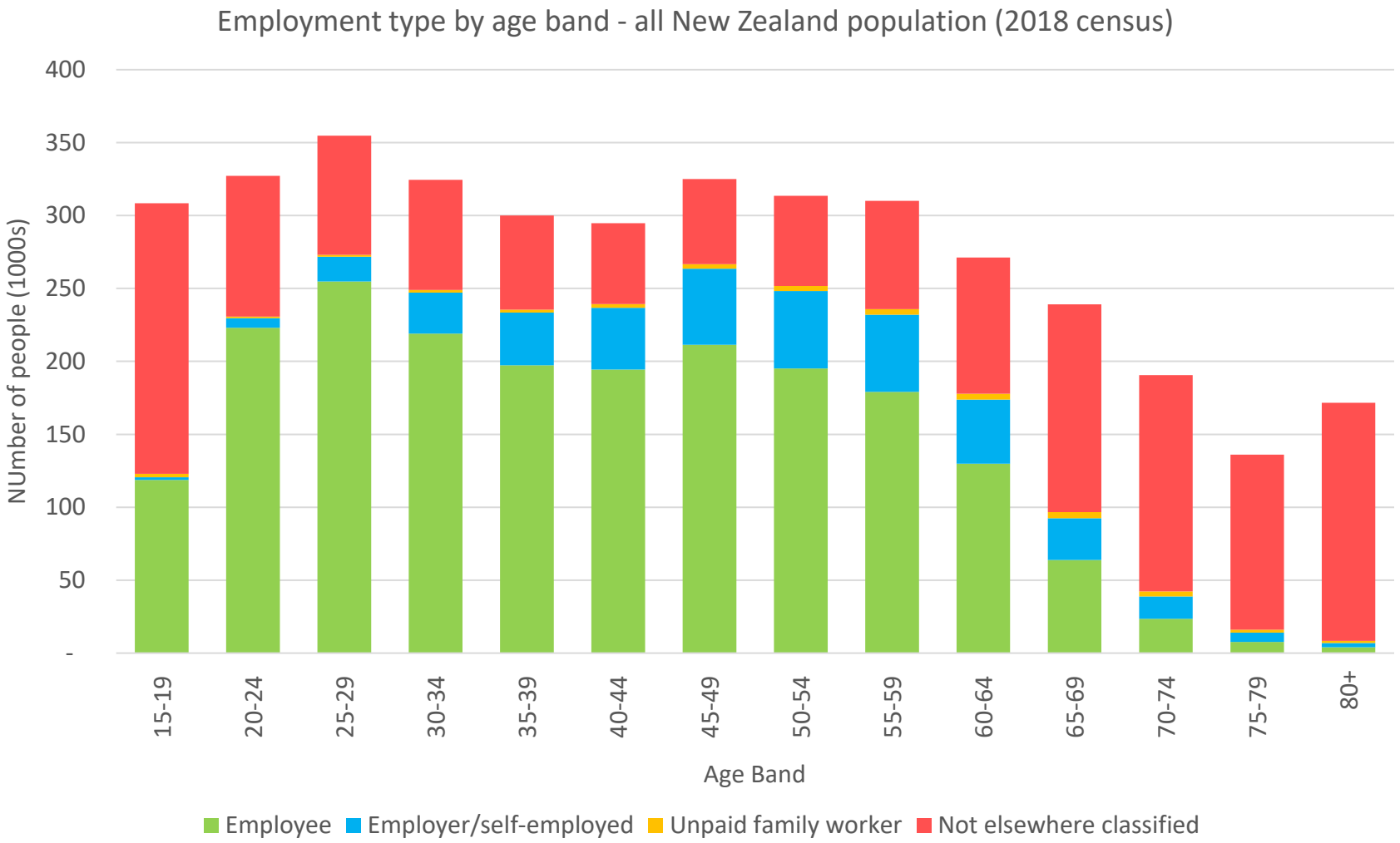

MELAA = Middle Eastern, Latin American and African

# Ethnicity by age band: Support Services

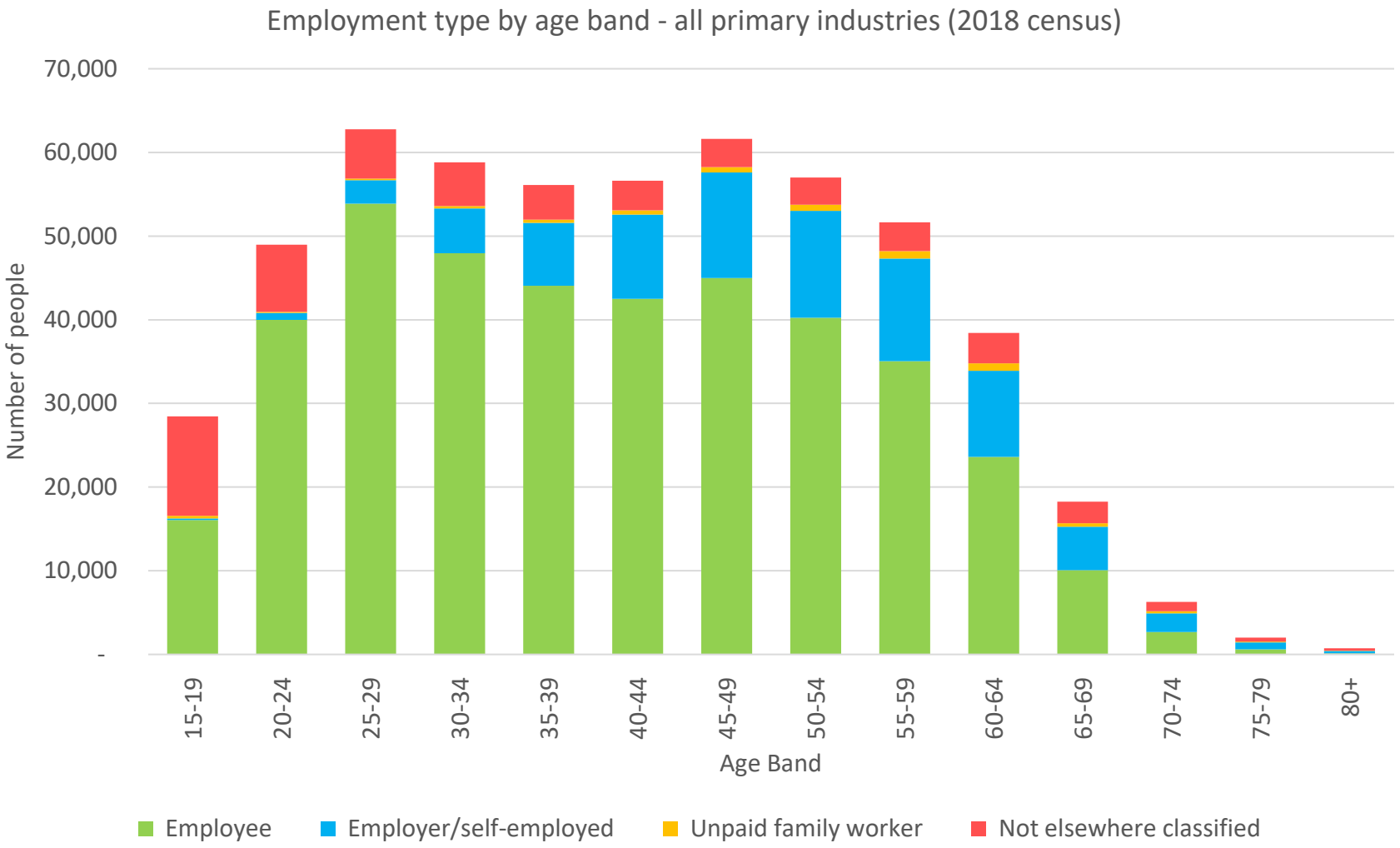



MELAA = Middle Eastern, Latin American and African

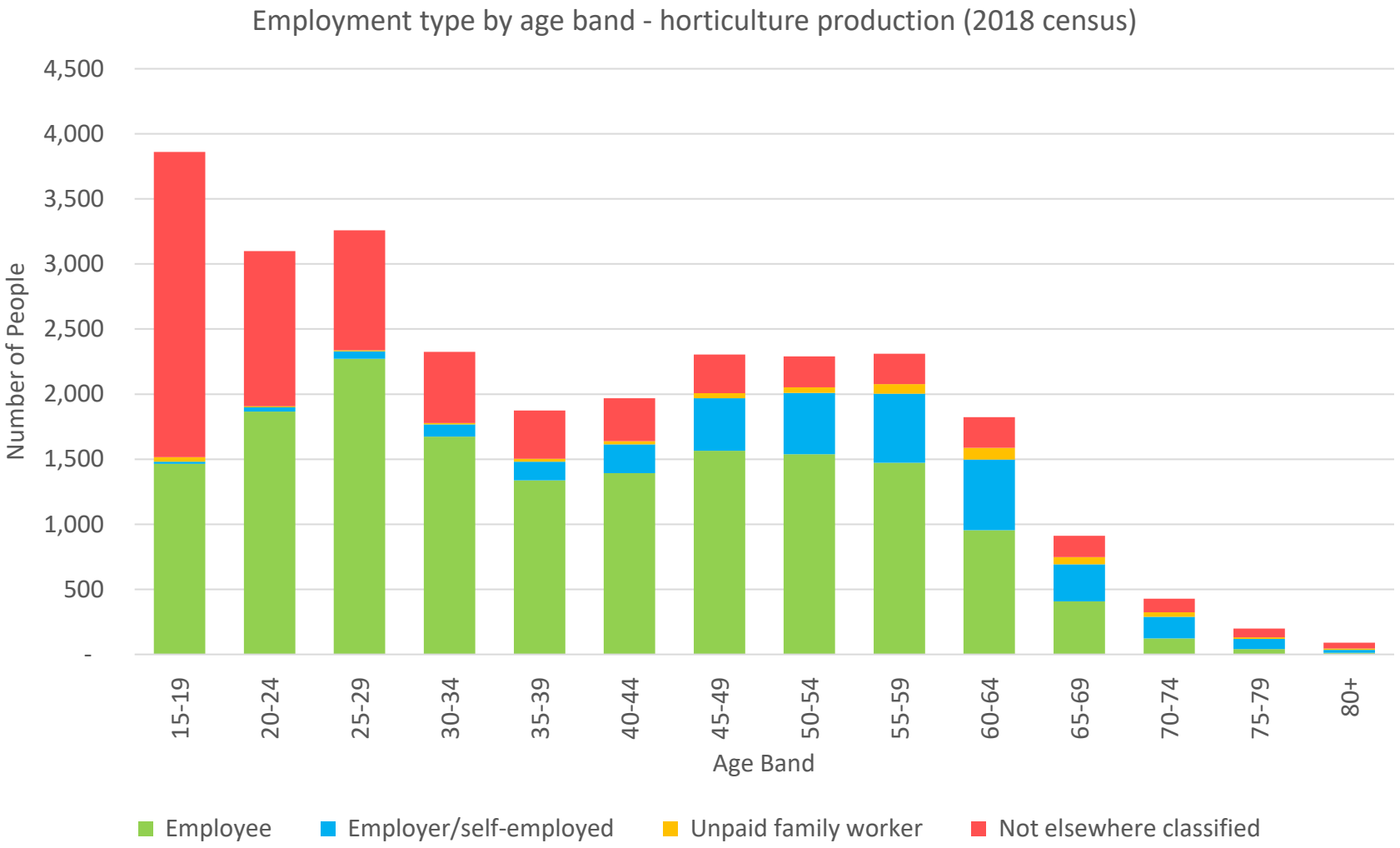
# Employment type by age band: NZ Population Census



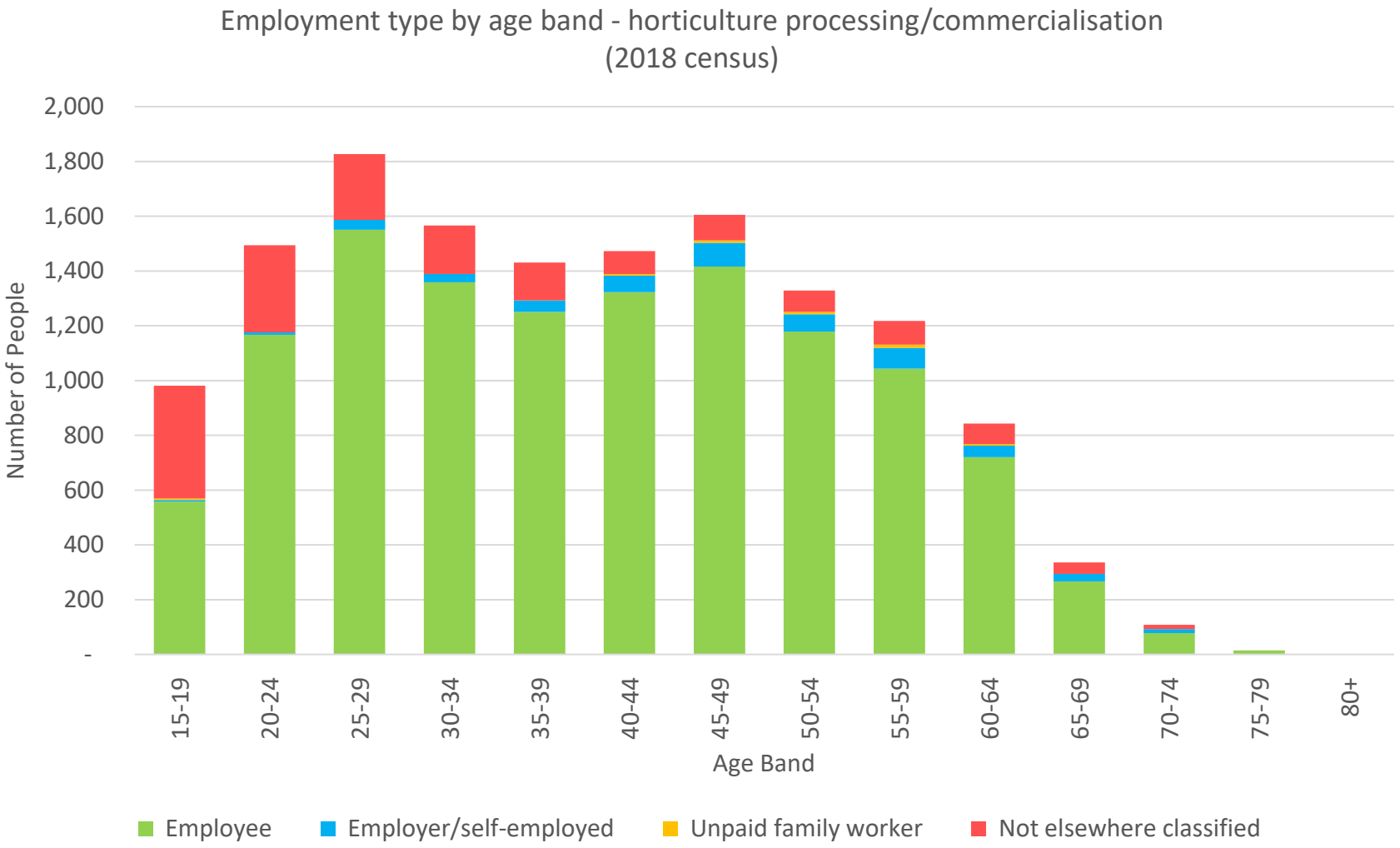
# Employment type by age band: All Primary Industries



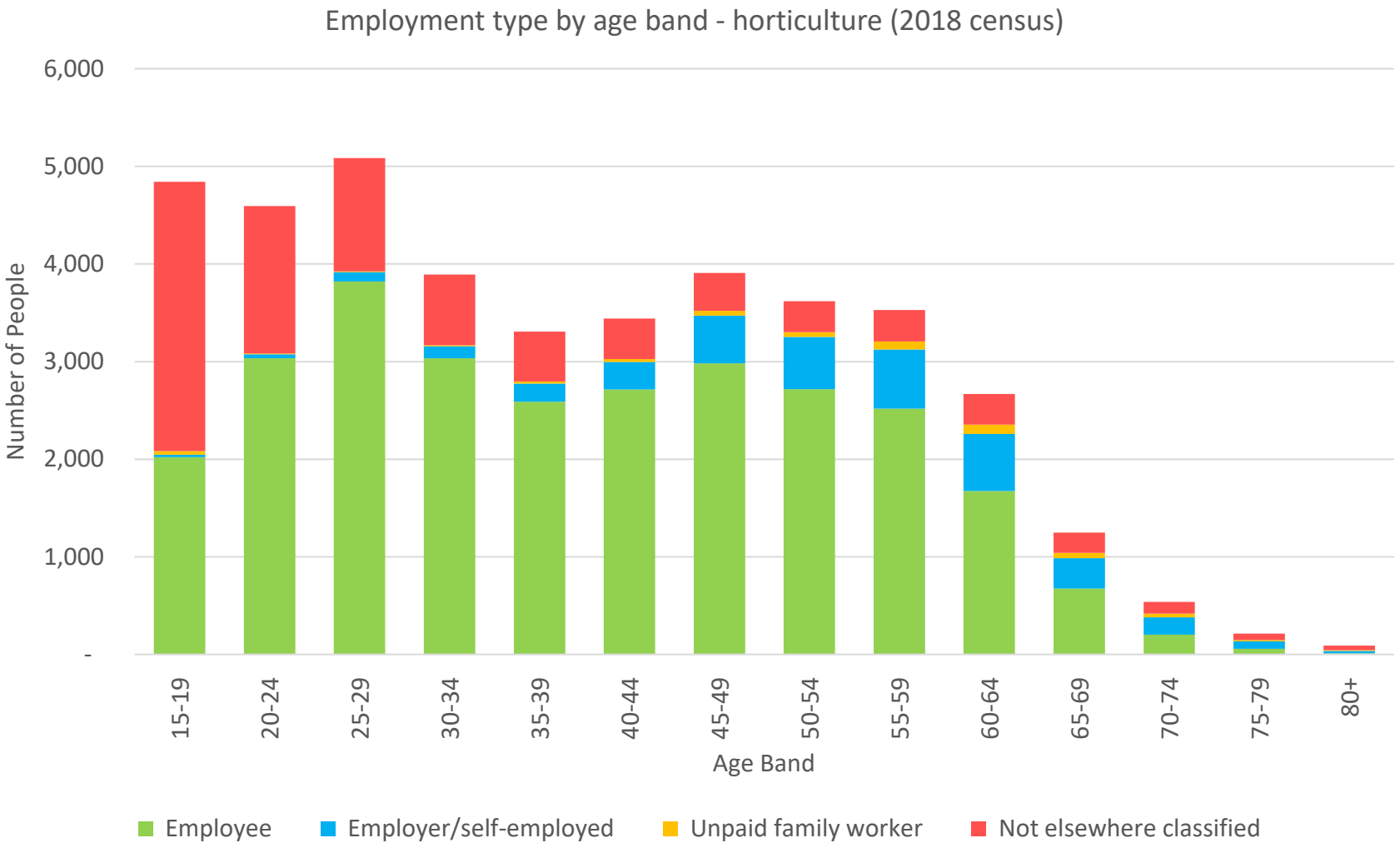
# Employment type by age band: Horticulture Production



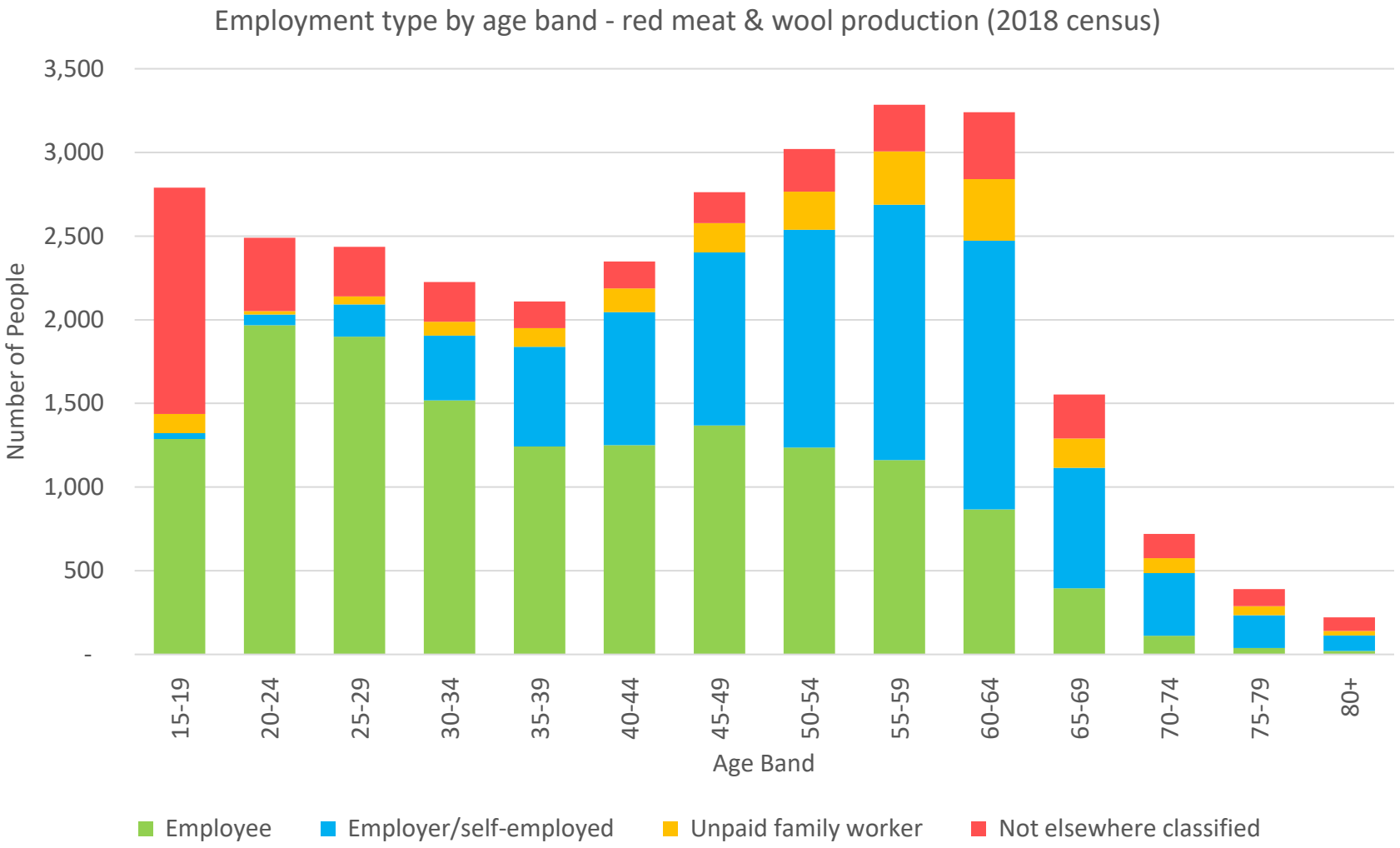
# Employment type by age band: Horticulture Processing/Commercialisation



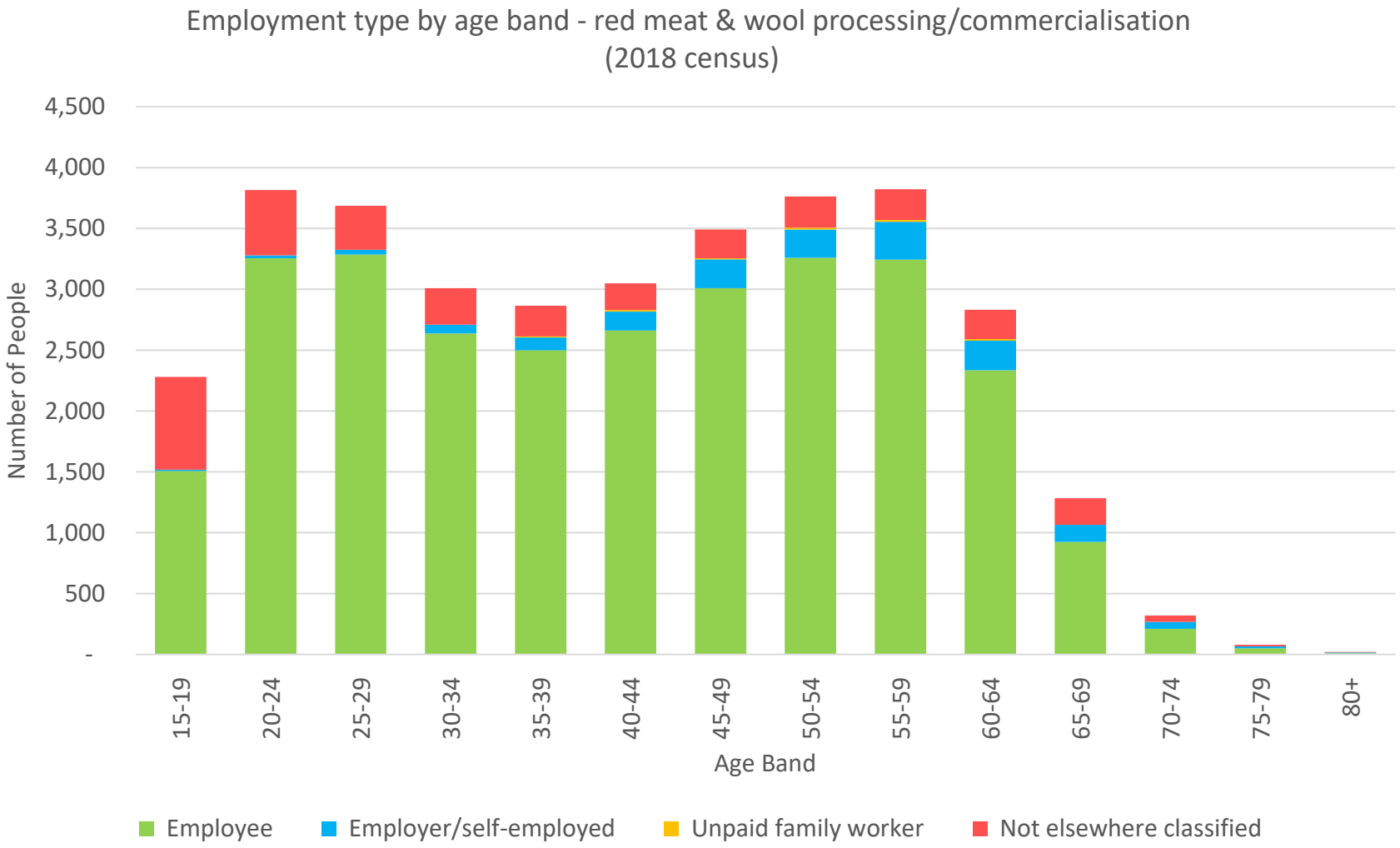
# Employment type by age band: Horticulture



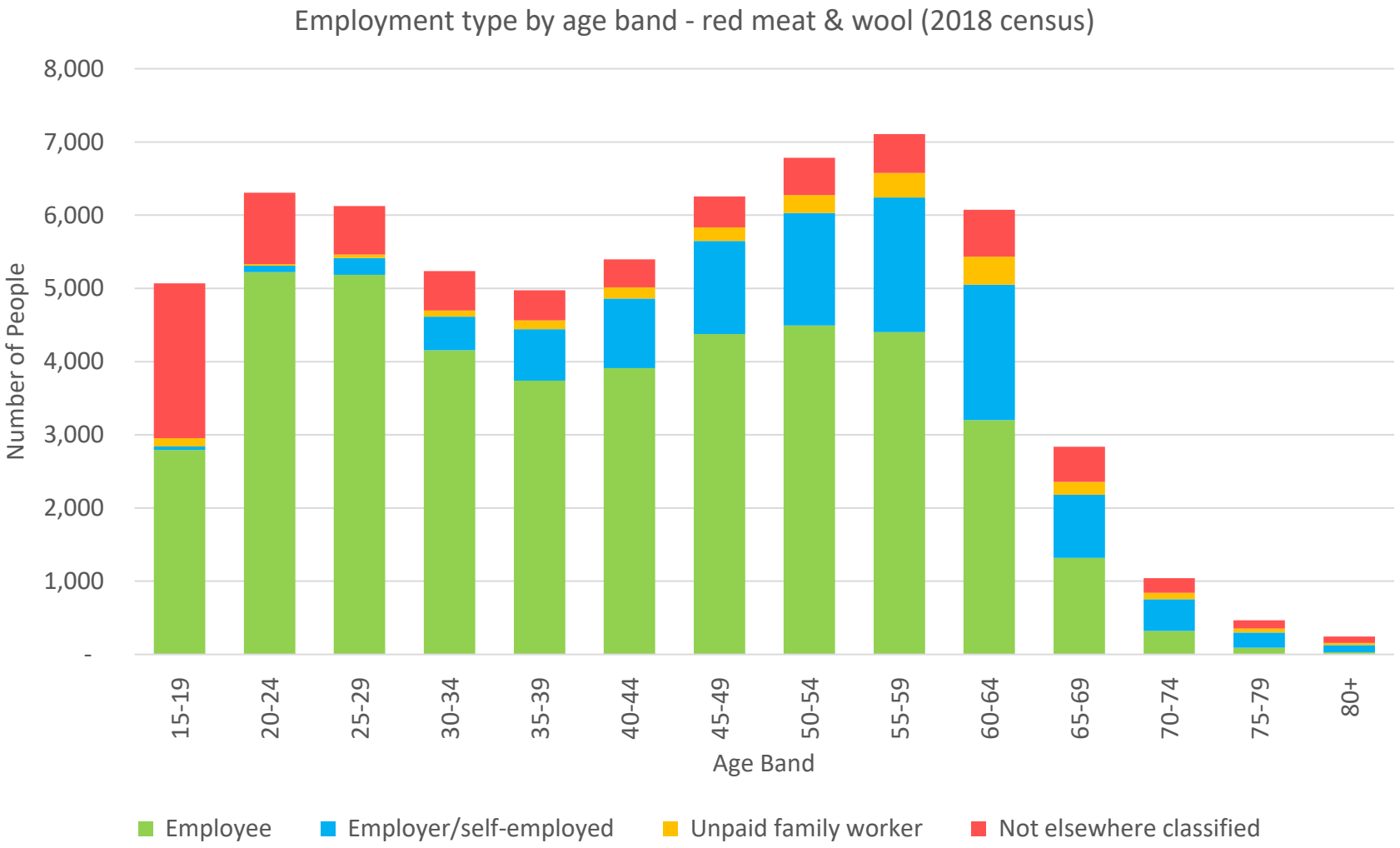
# Employment type by age band: Red Meat & Wool Production



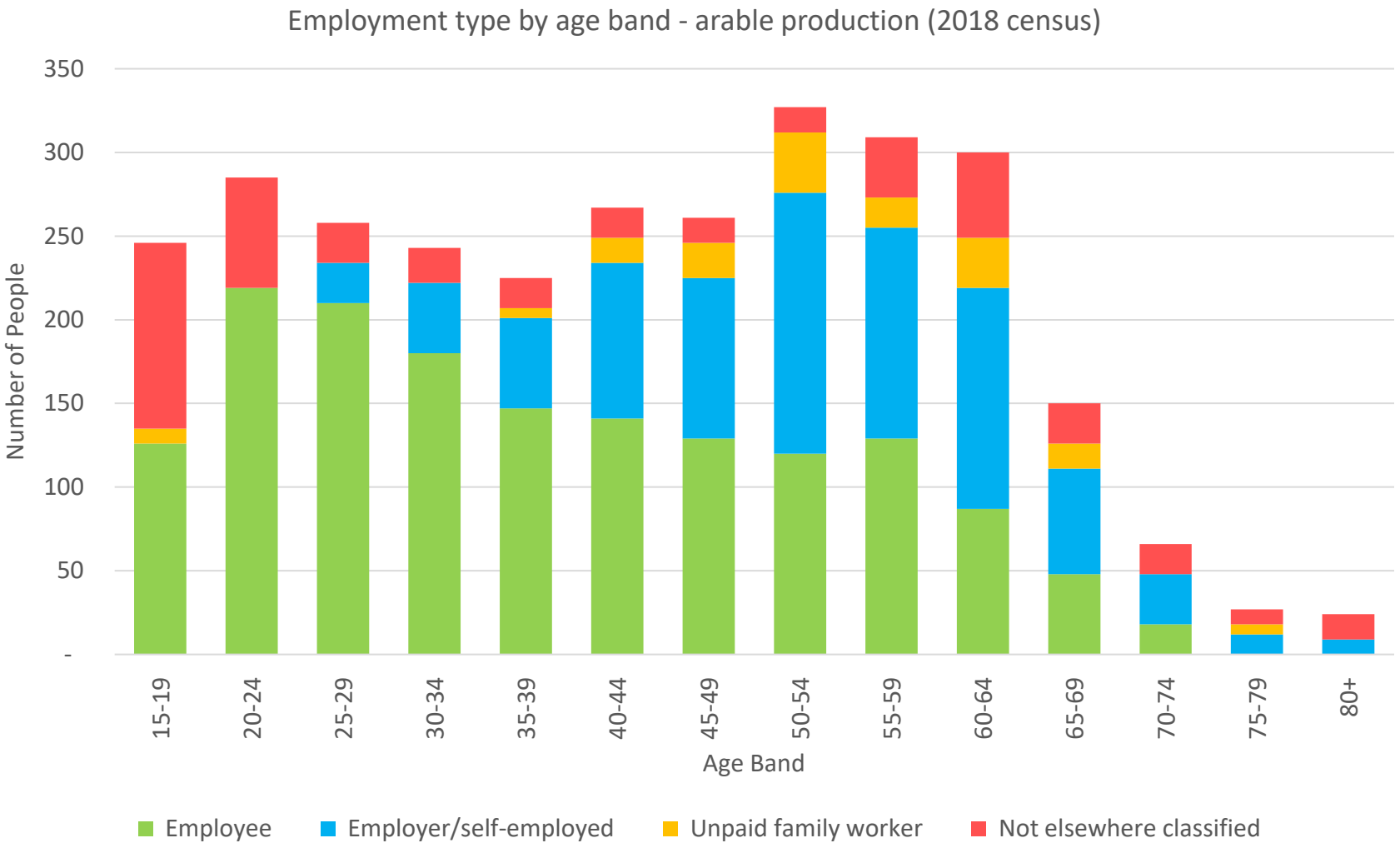
# Employment type by age band:
# Red Meat & Wool Processing/Commercialisation



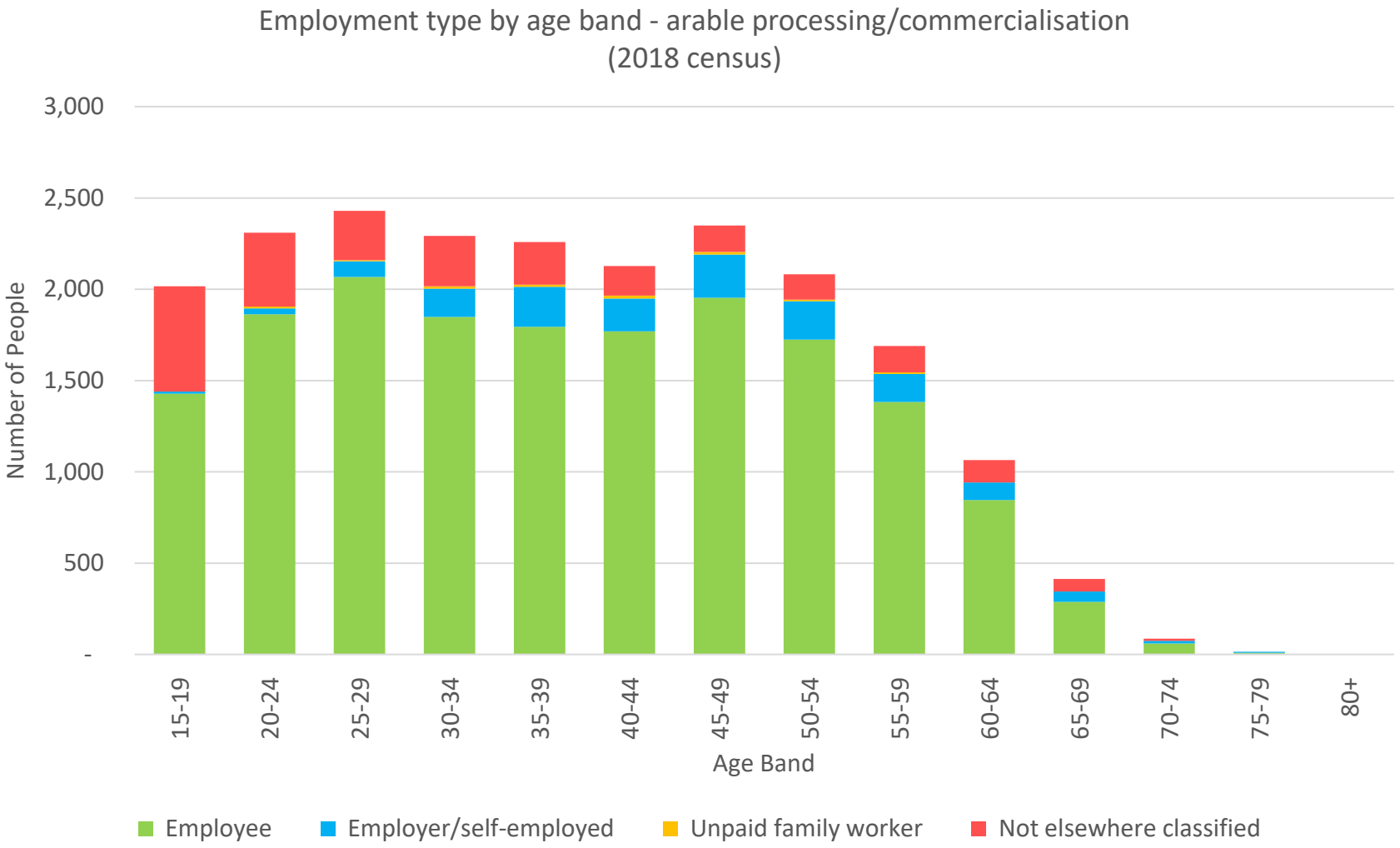
# Employment type by age band: Red Meat & Wool



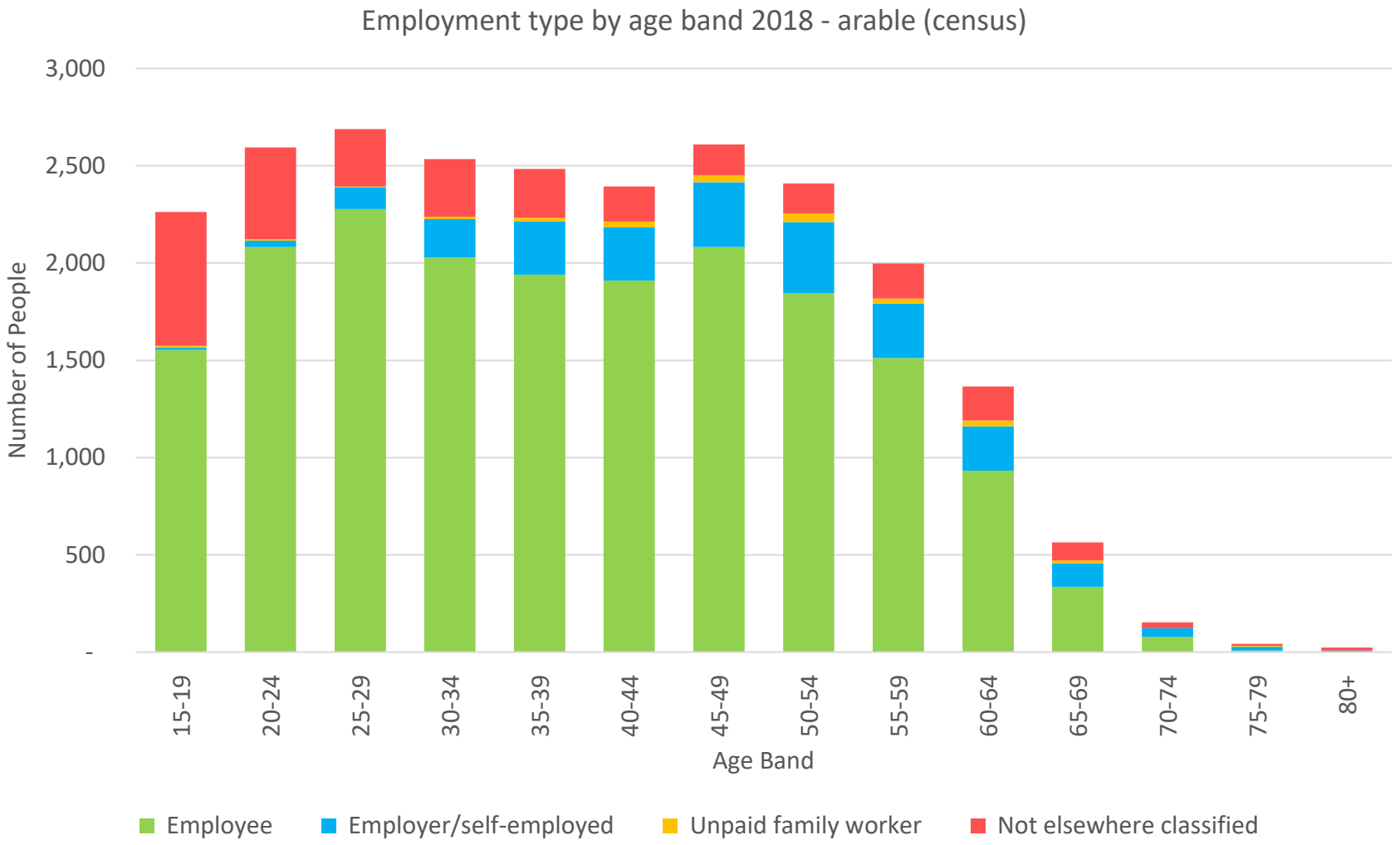
# Employment type by age band: Arable Production



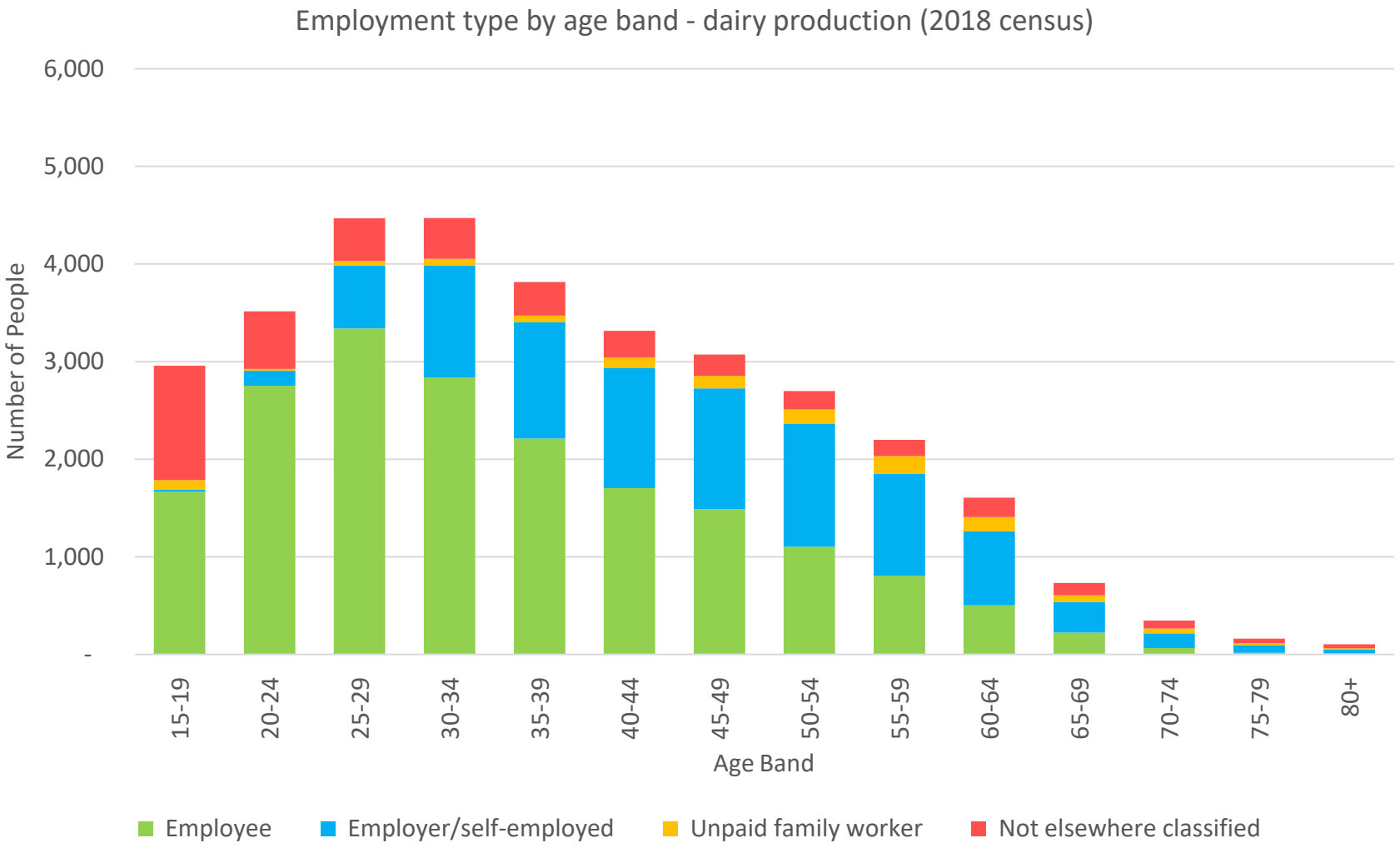
# Employment type by age band: Arable Processing/Commercialisation



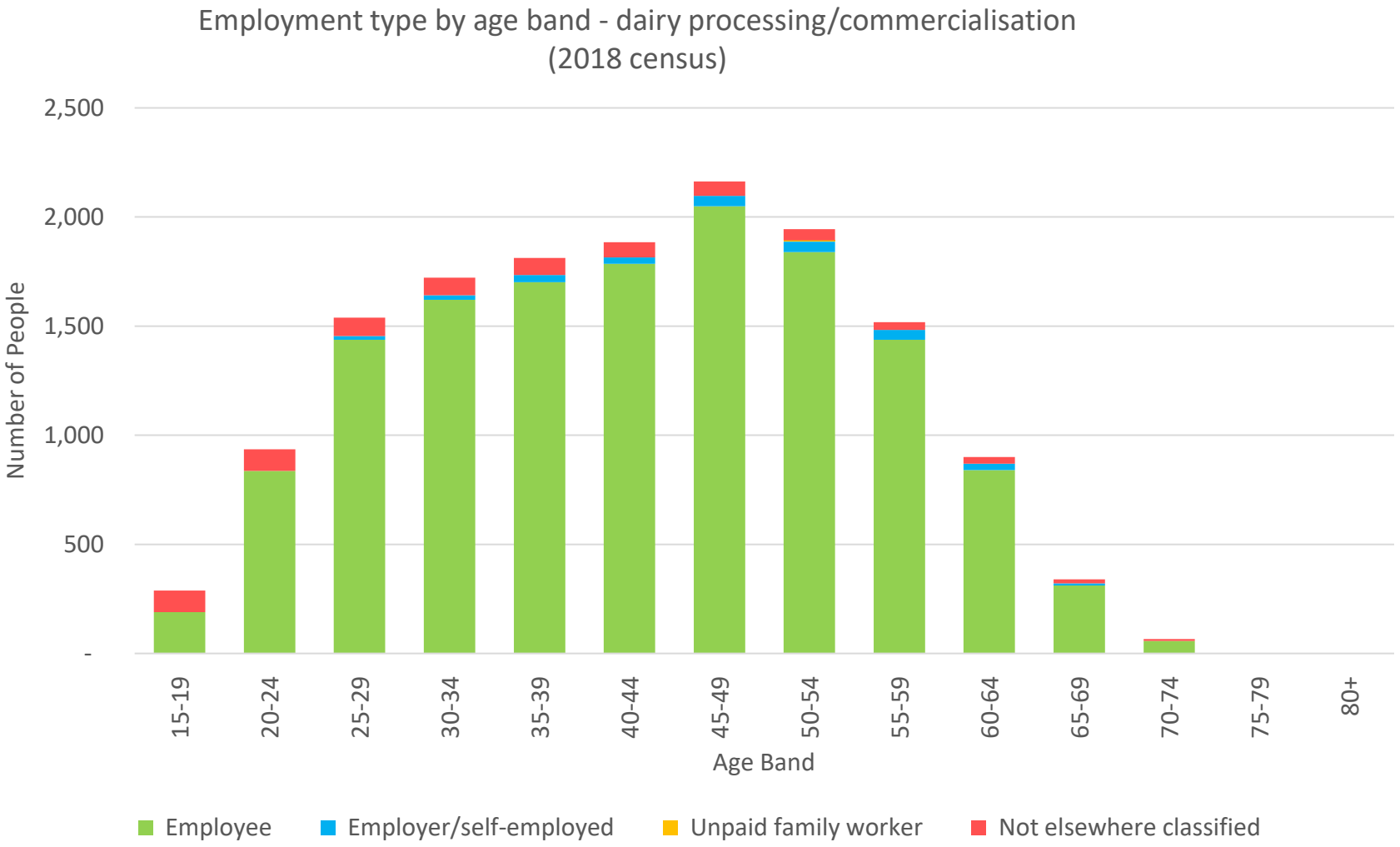
# Employment type by age band: Arable



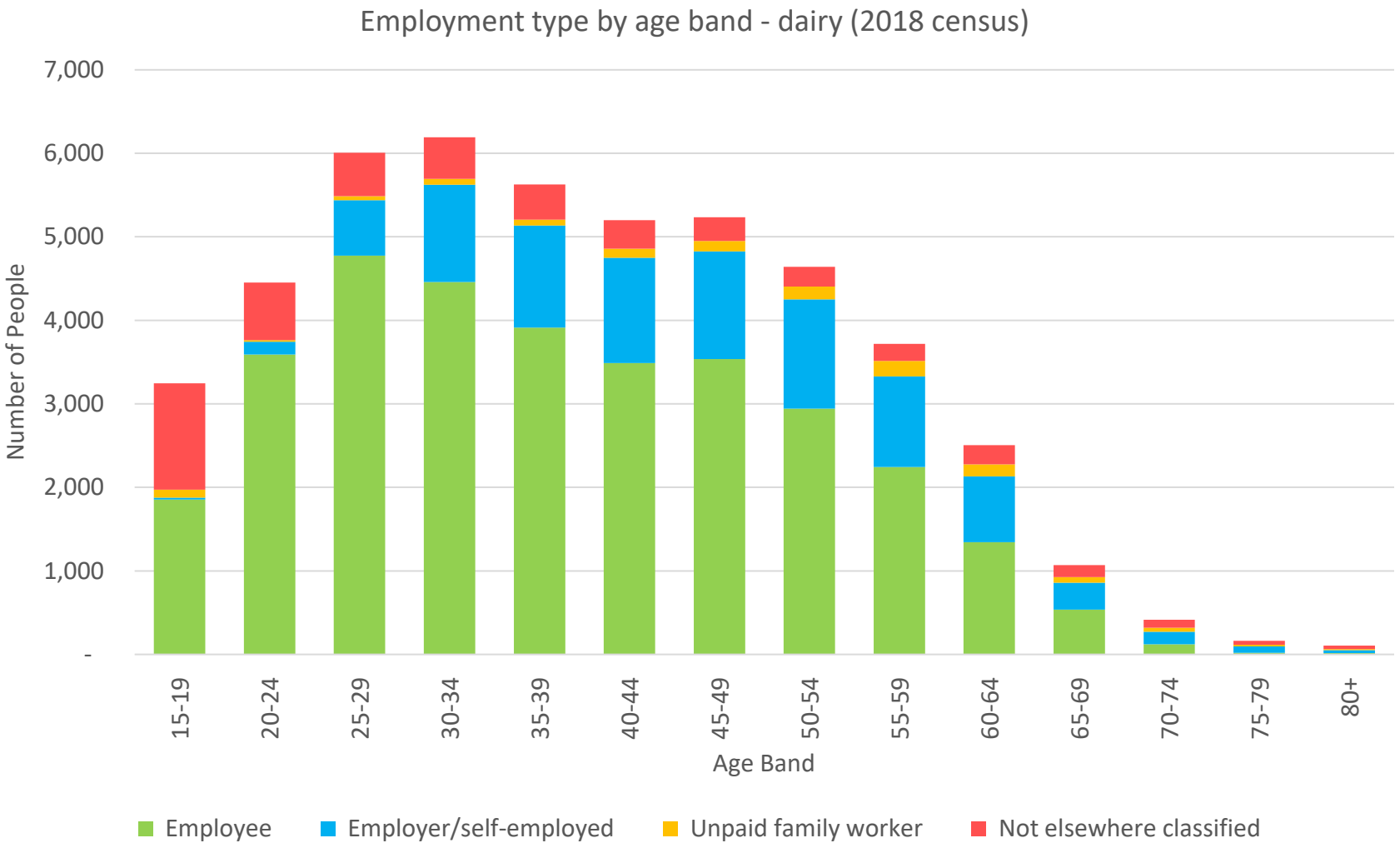
# Employment type by age band: Dairy Production



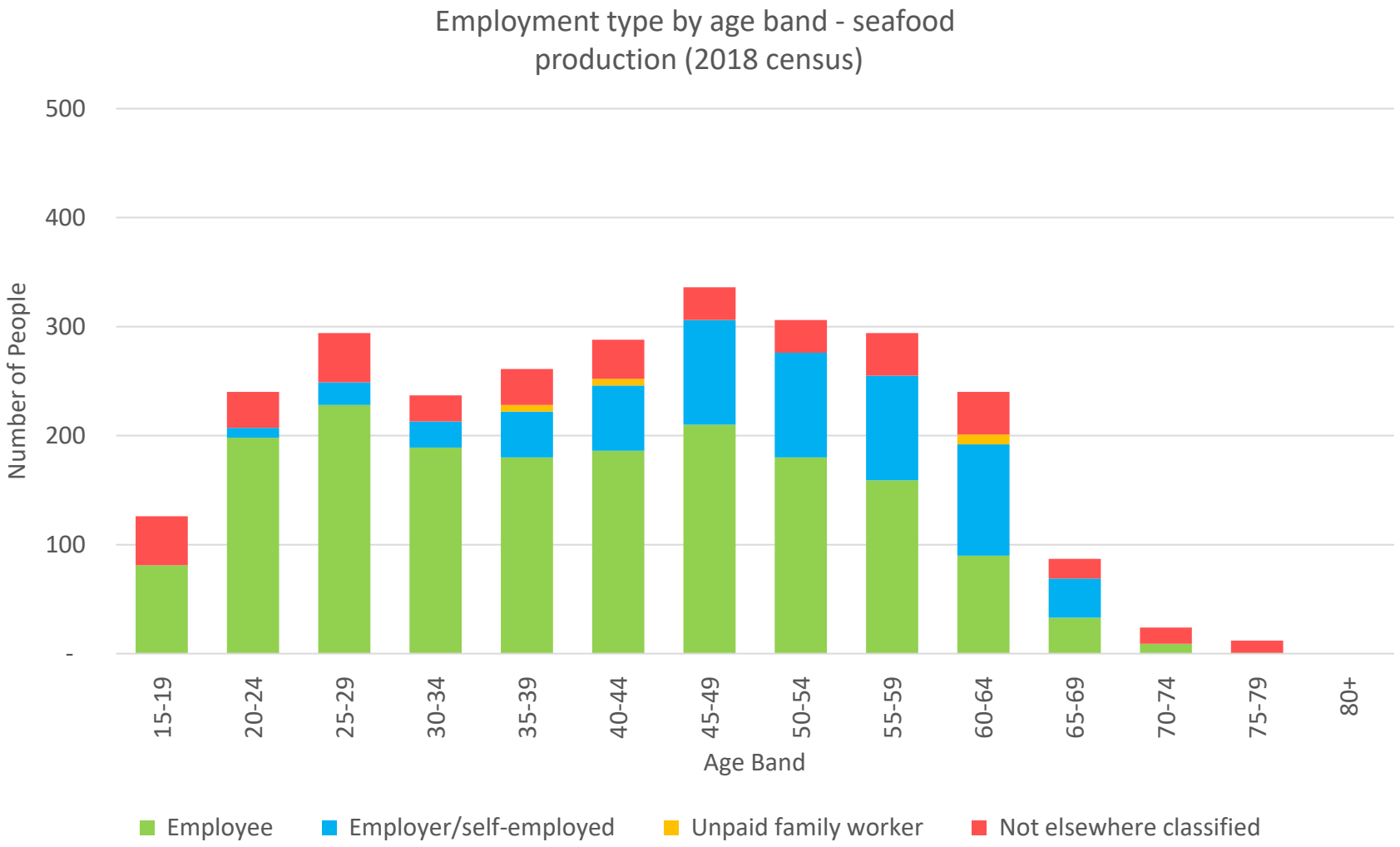
# Employment type by age band: Dairy Processing/Commercialisation



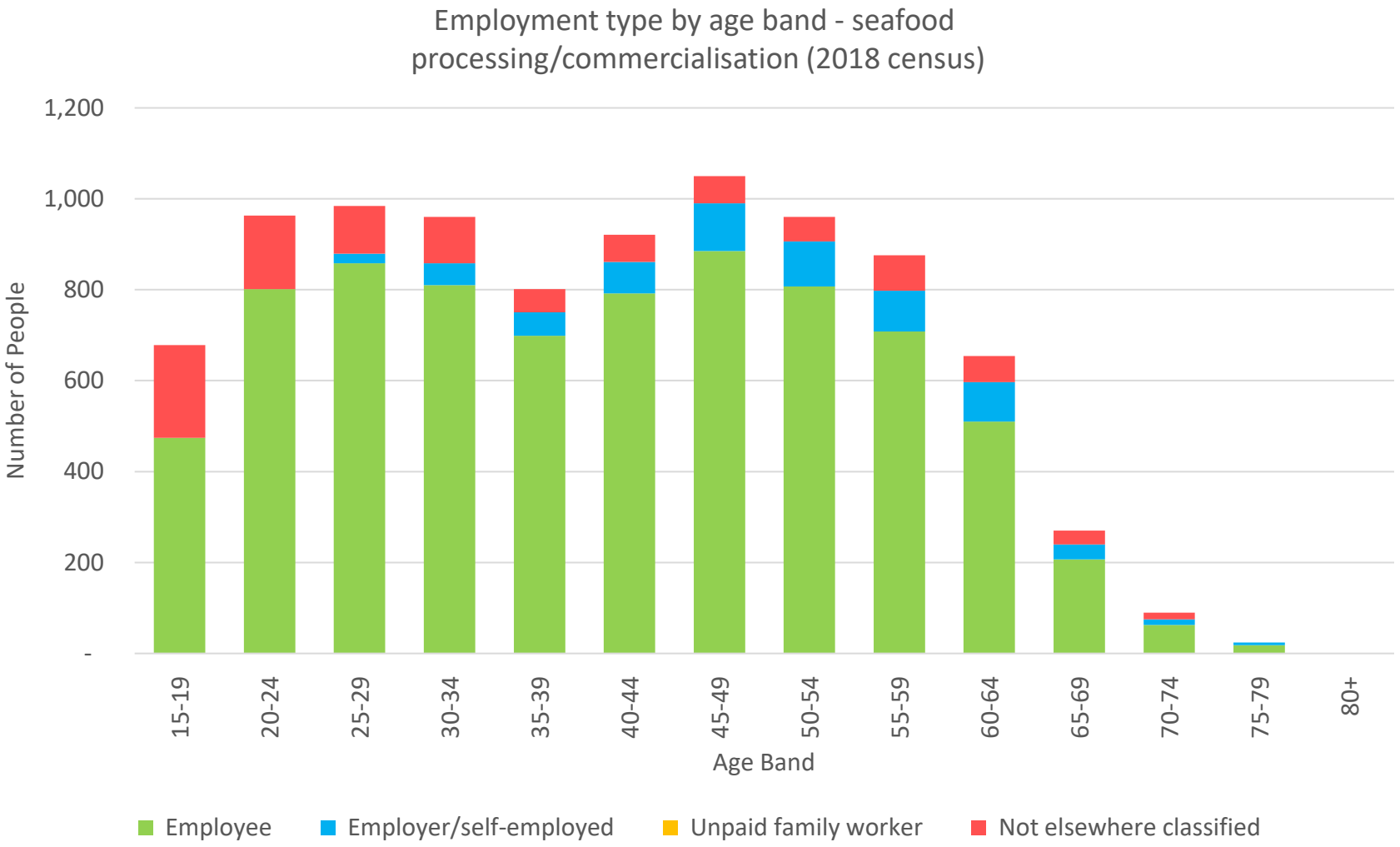
# Employment type by age band: Dairy



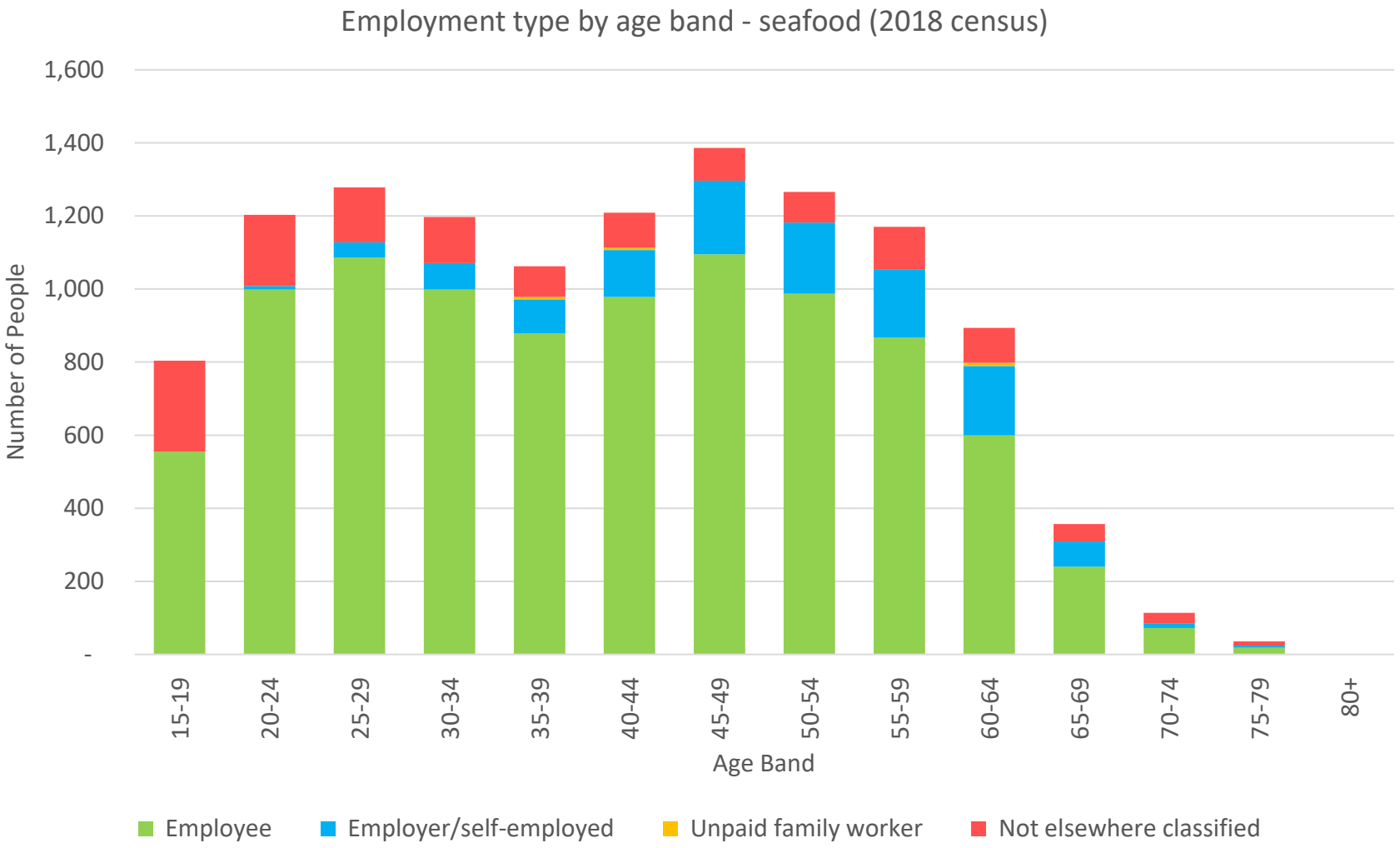
# Employment type by age band: Seafood Production



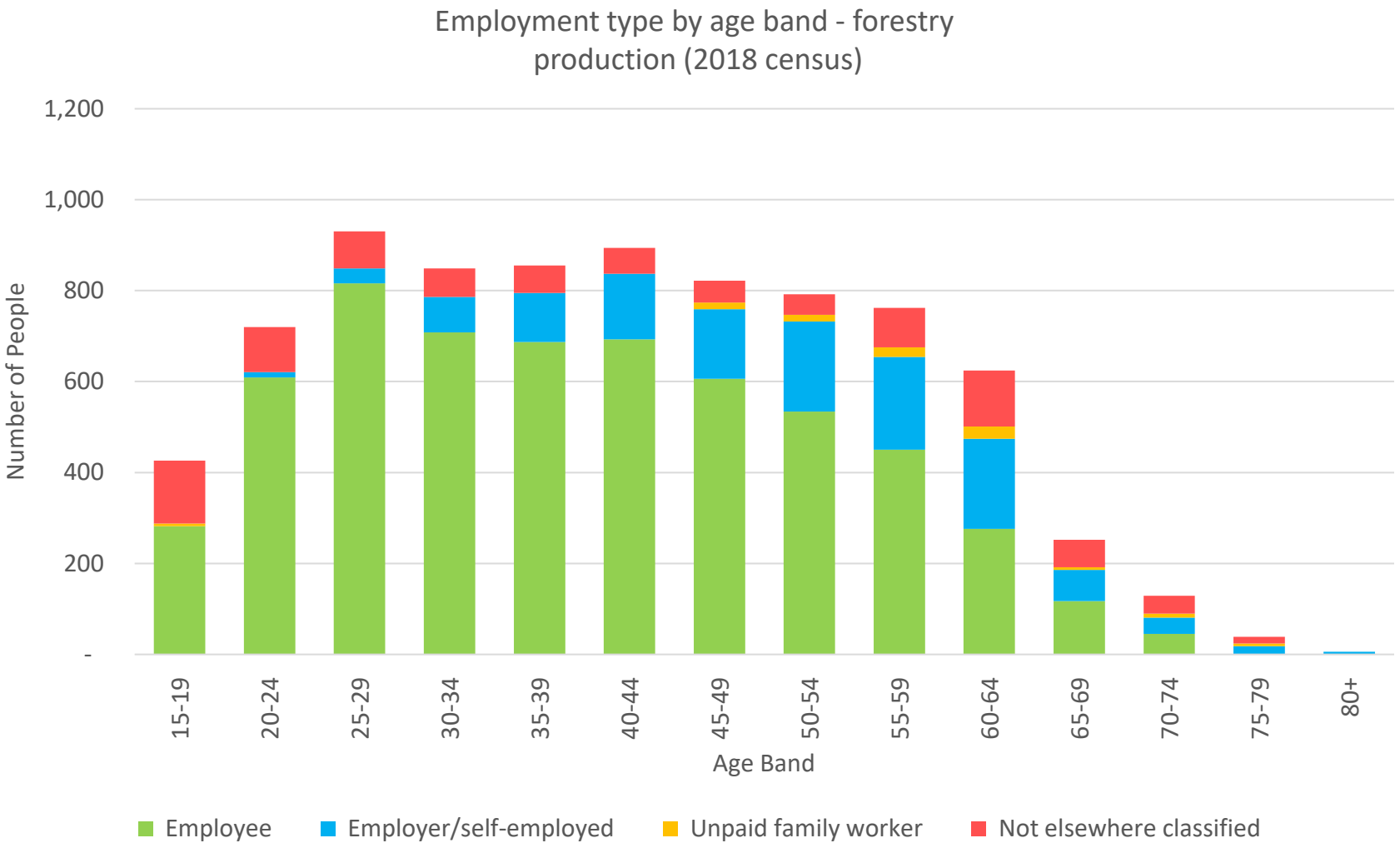
# Employment type by age band: Seafood Processing/Commercialisation



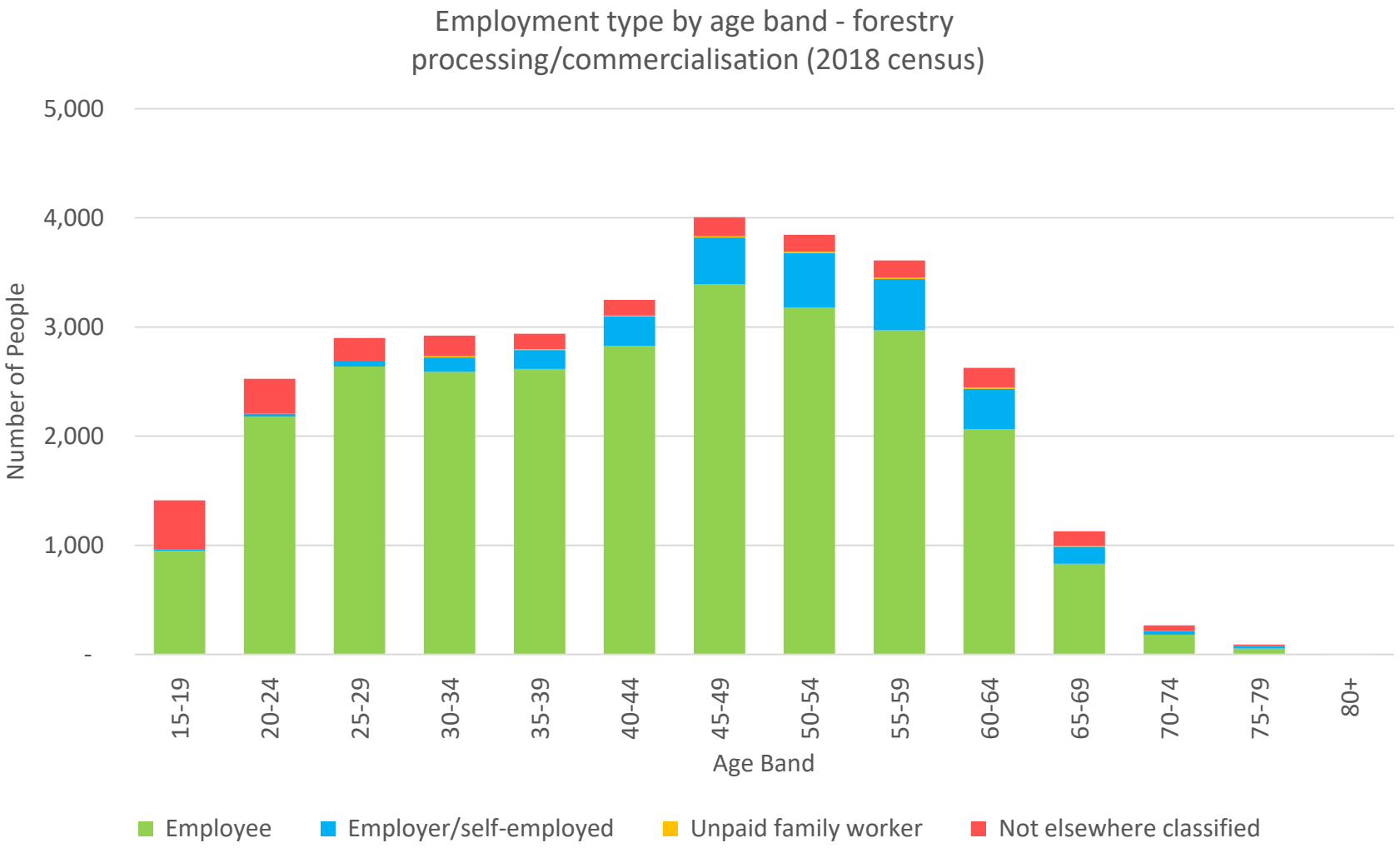
# Employment type by age band: Seafood



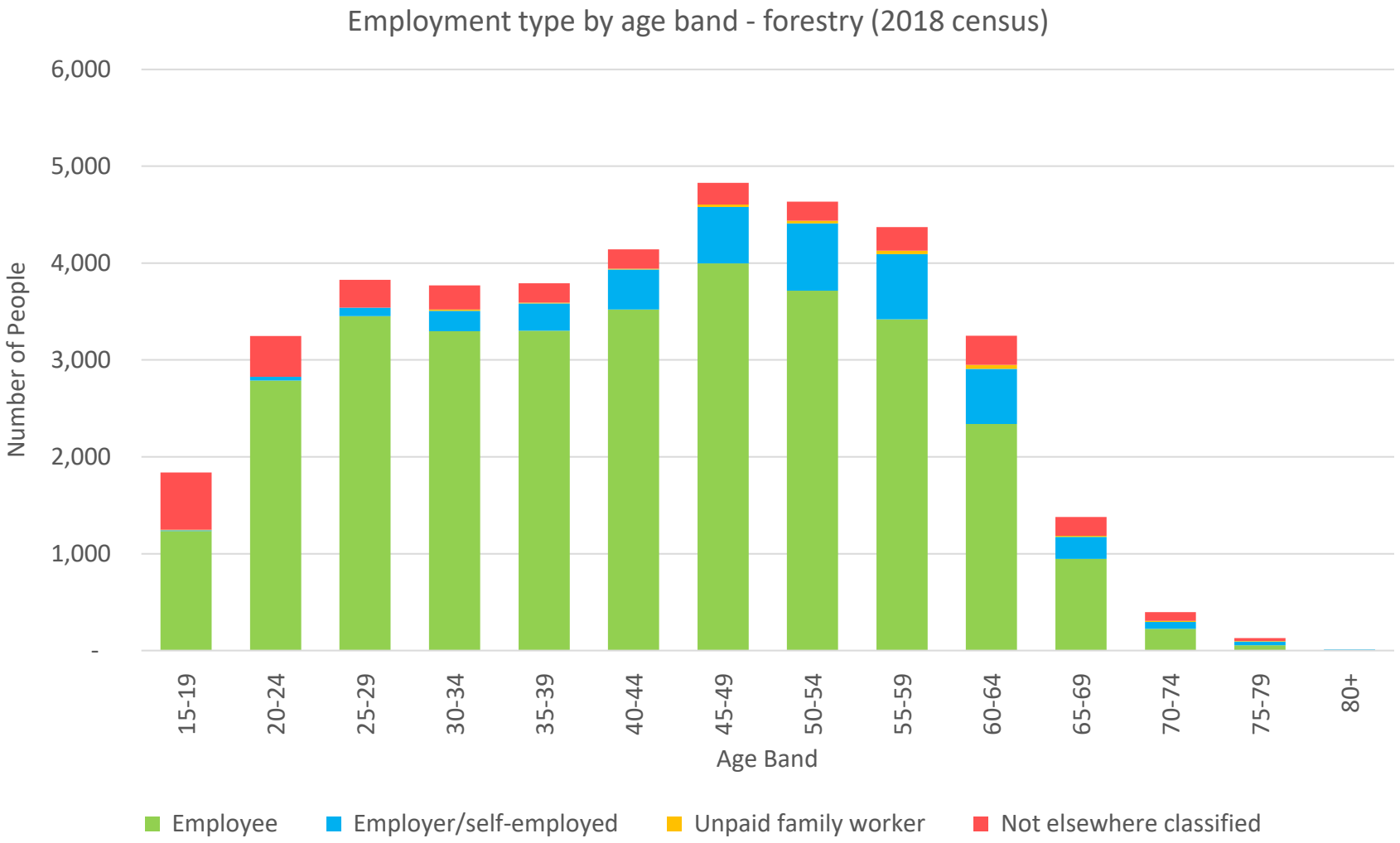
# Employment type by age band: Forestry Production



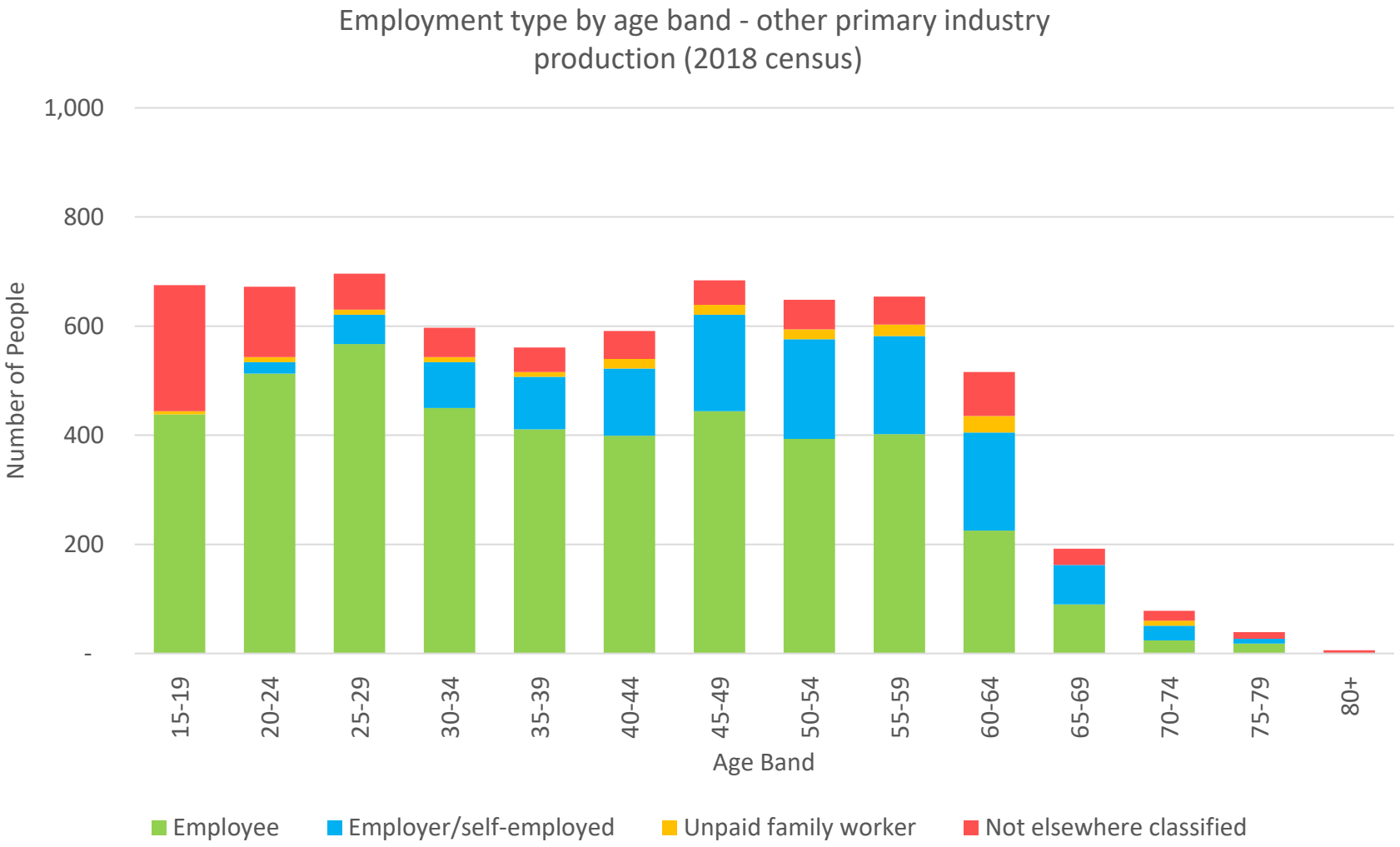
# Employment type by age band: Forestry Processing/Commercialisation



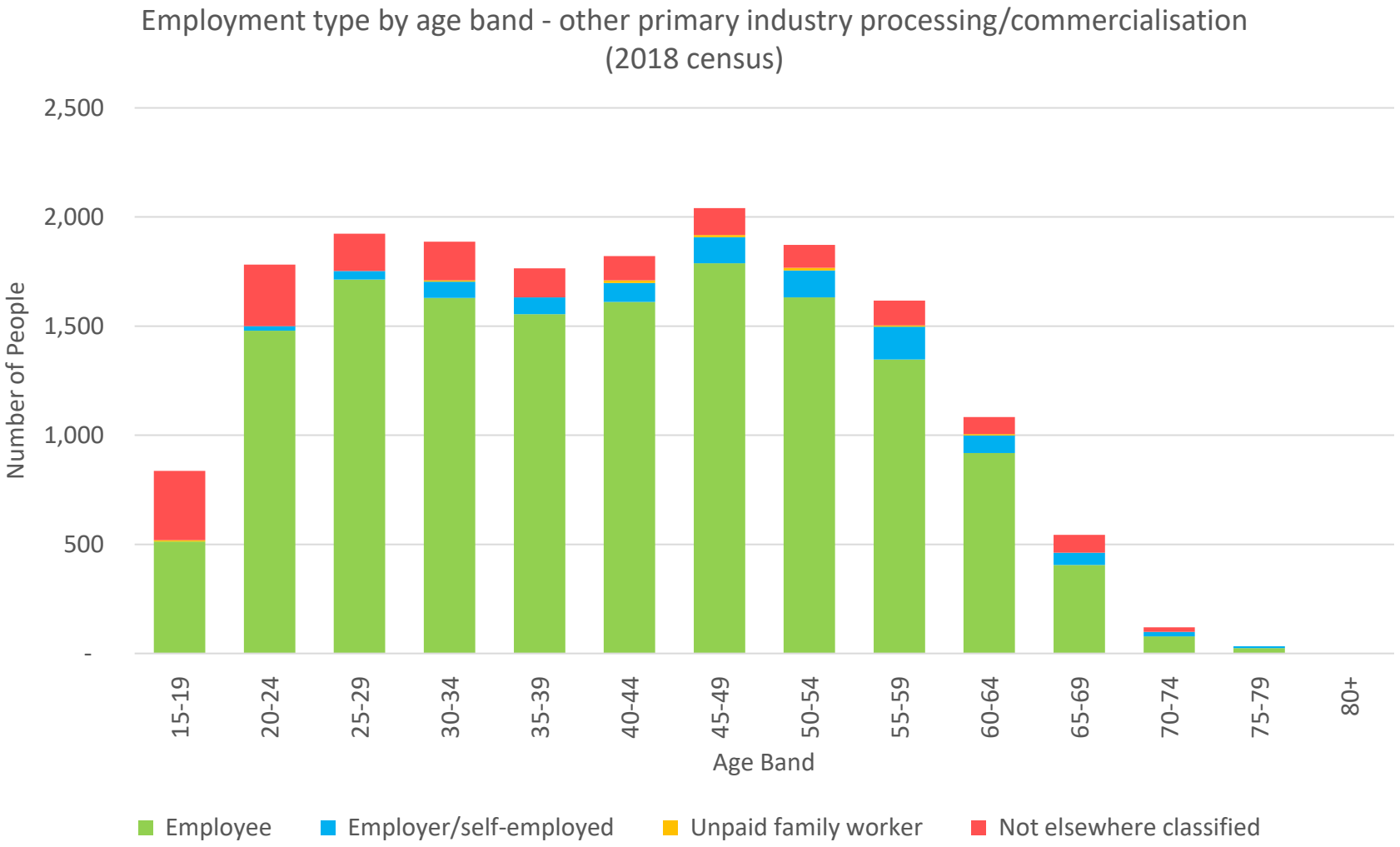
# Employment type by age band: Forestry



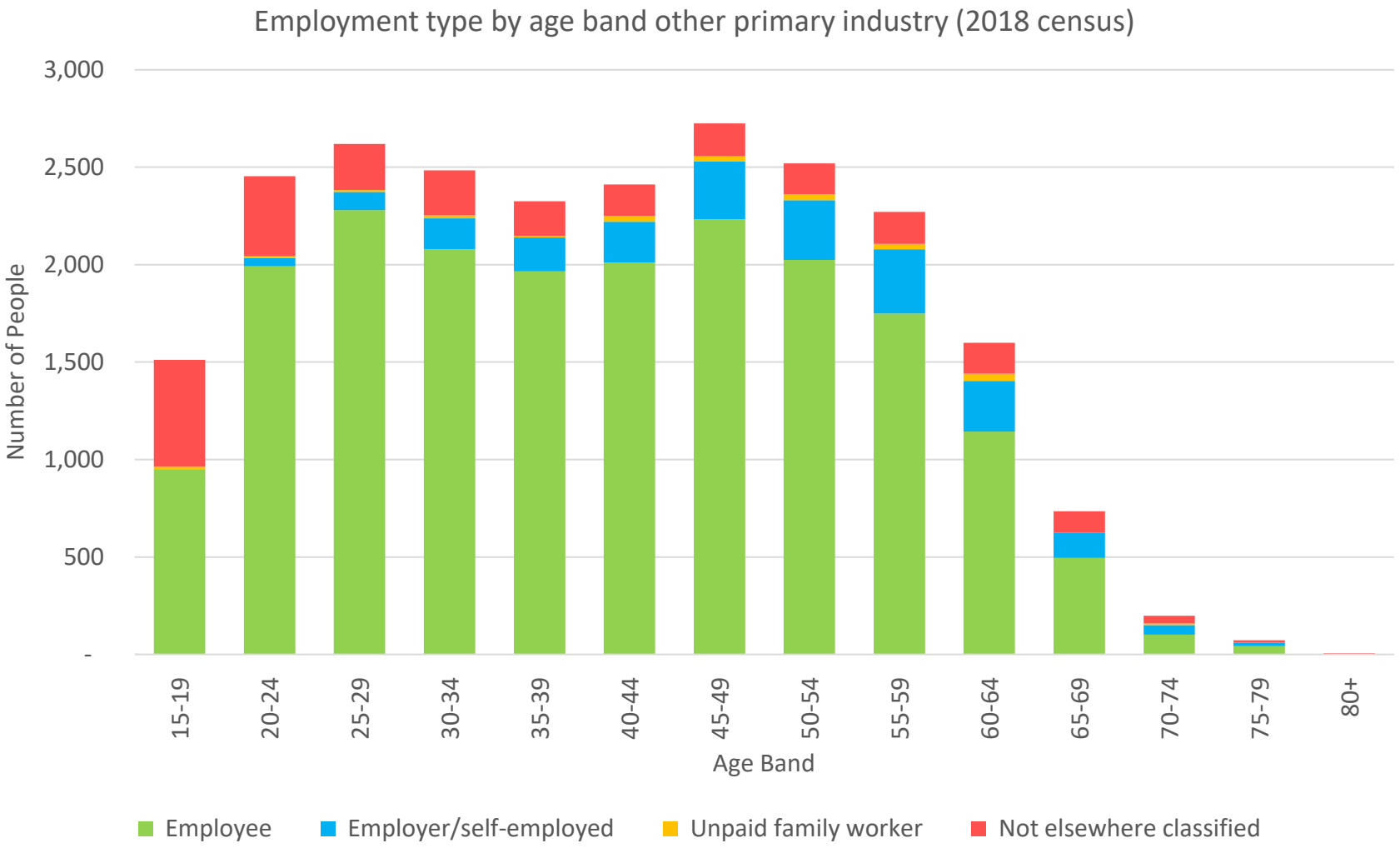
# Employment type by age band: Other Primary Production



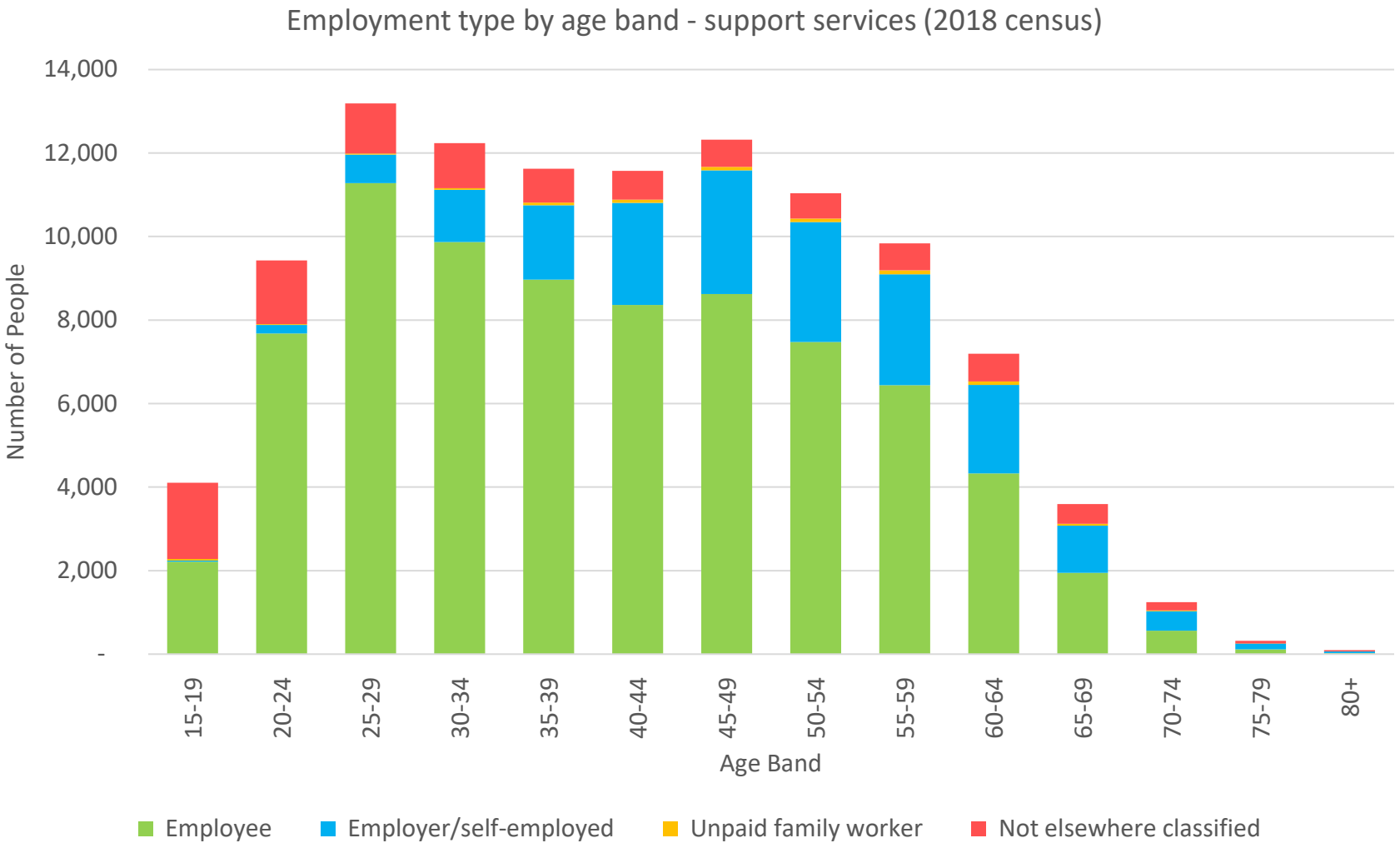
# Employment type by age band: Other Primary Processing/Commercialisation



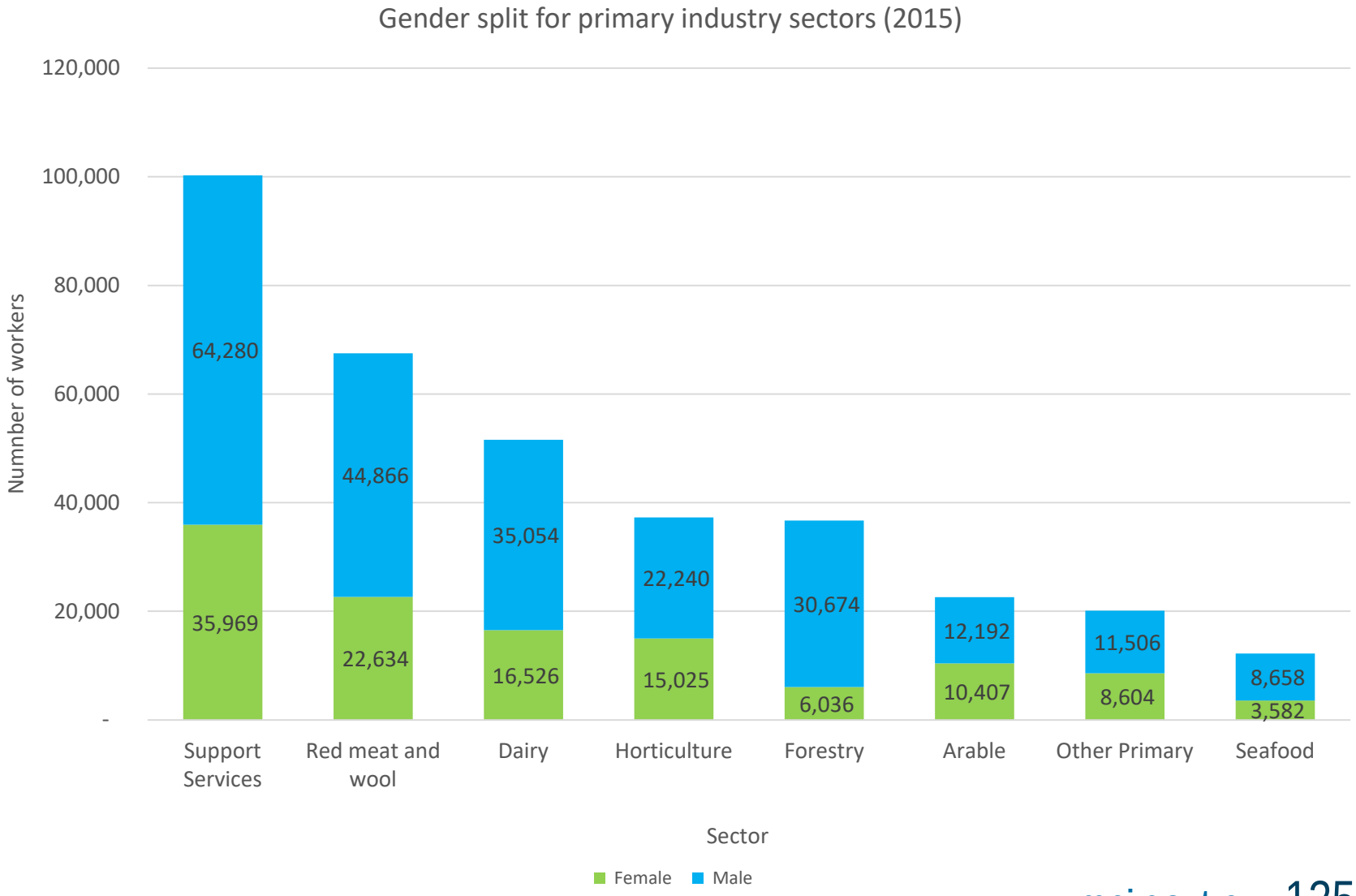
# Employment type by age band: Other Primary



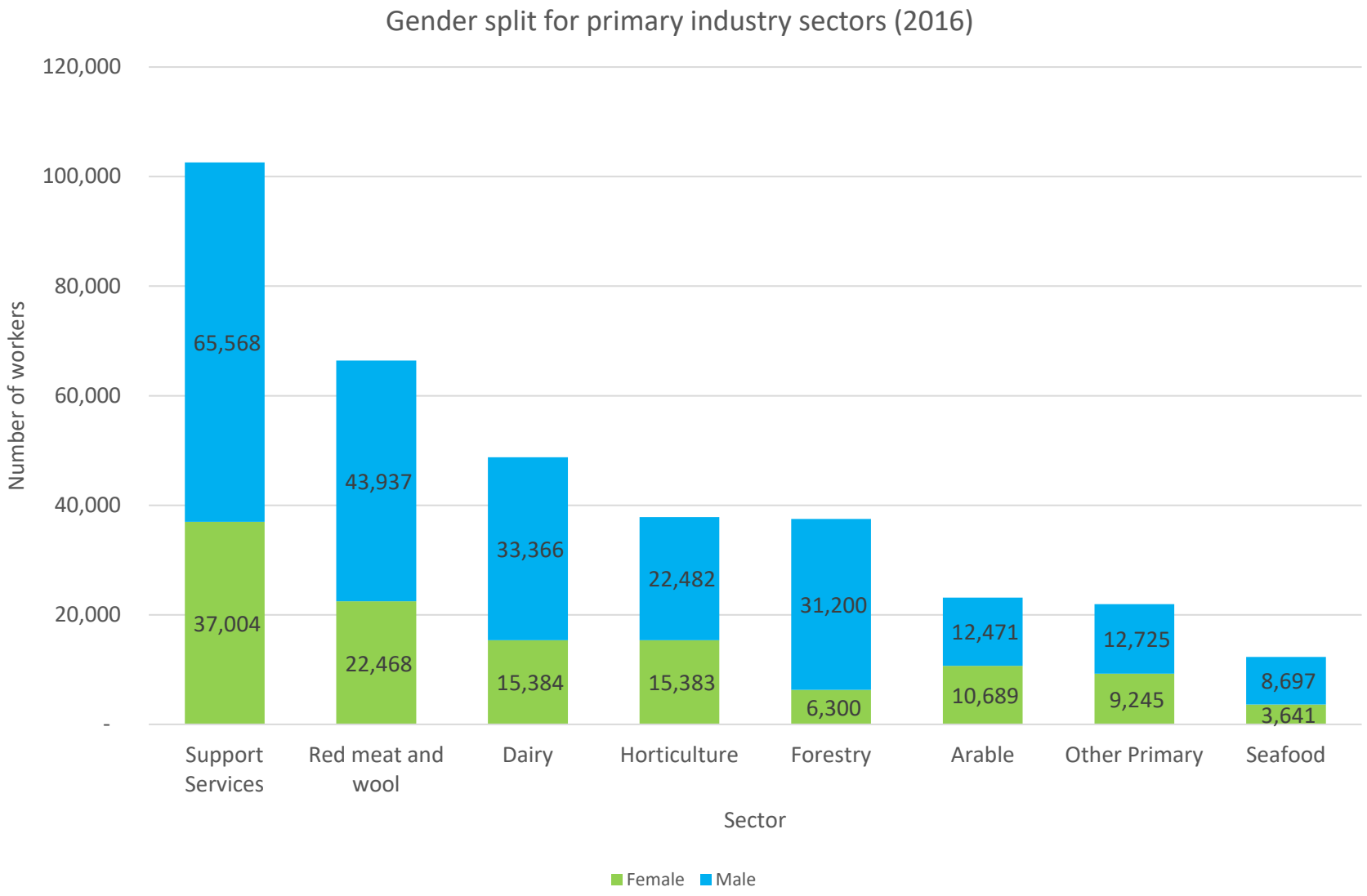
# Employment type by age band: Support Services



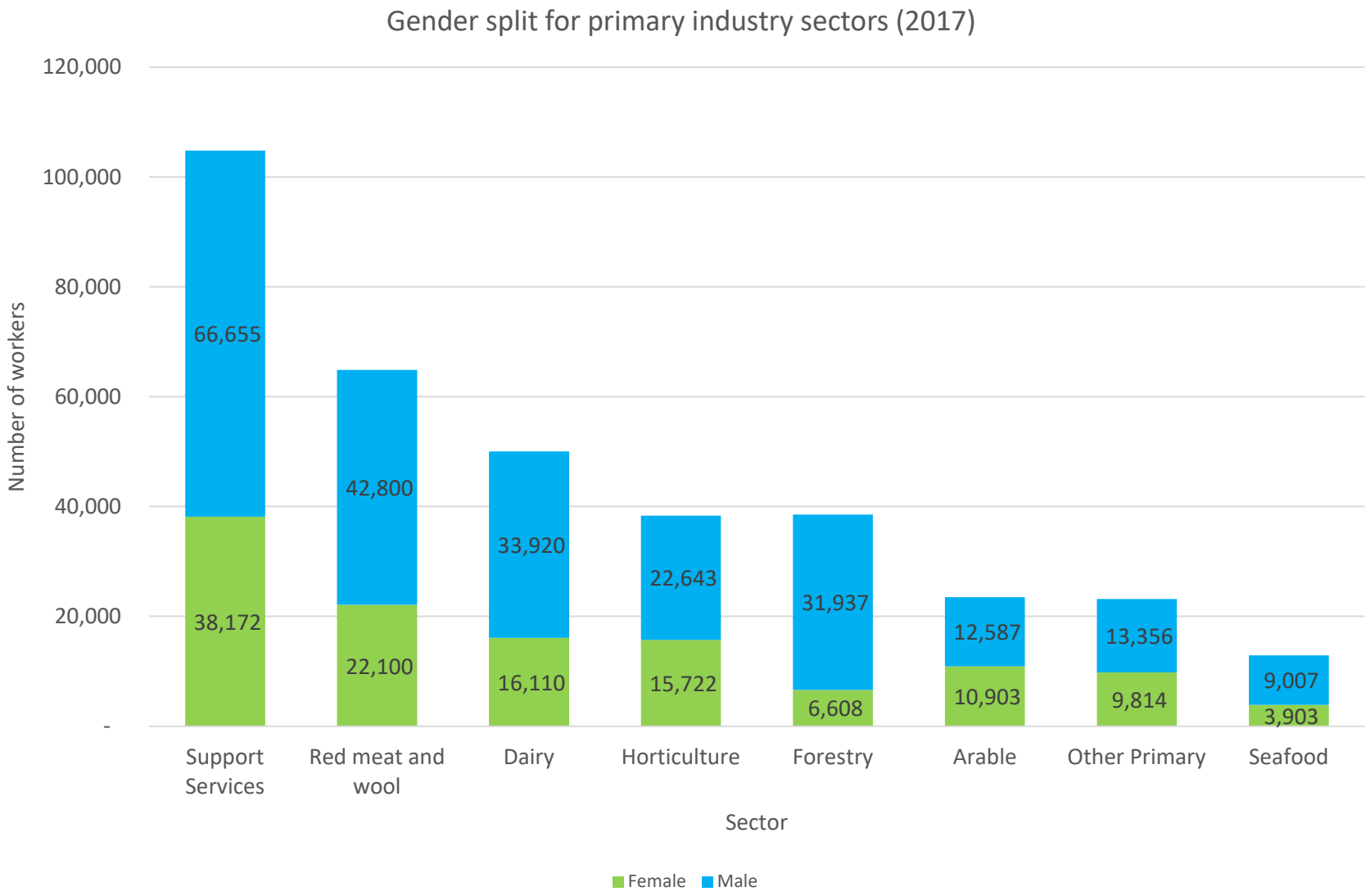
# Gender split by sector 2015



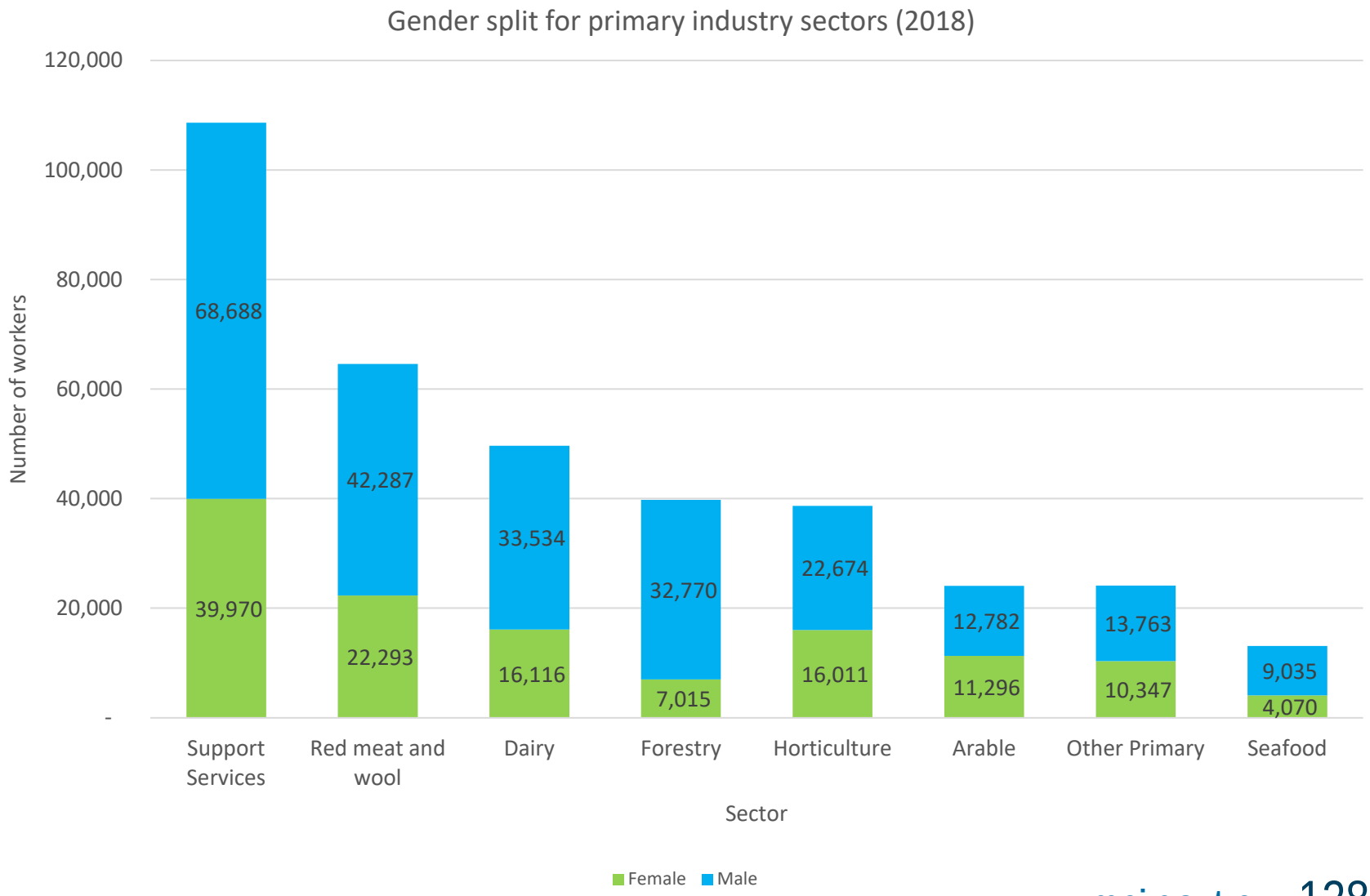
# Gender split by sector 2016



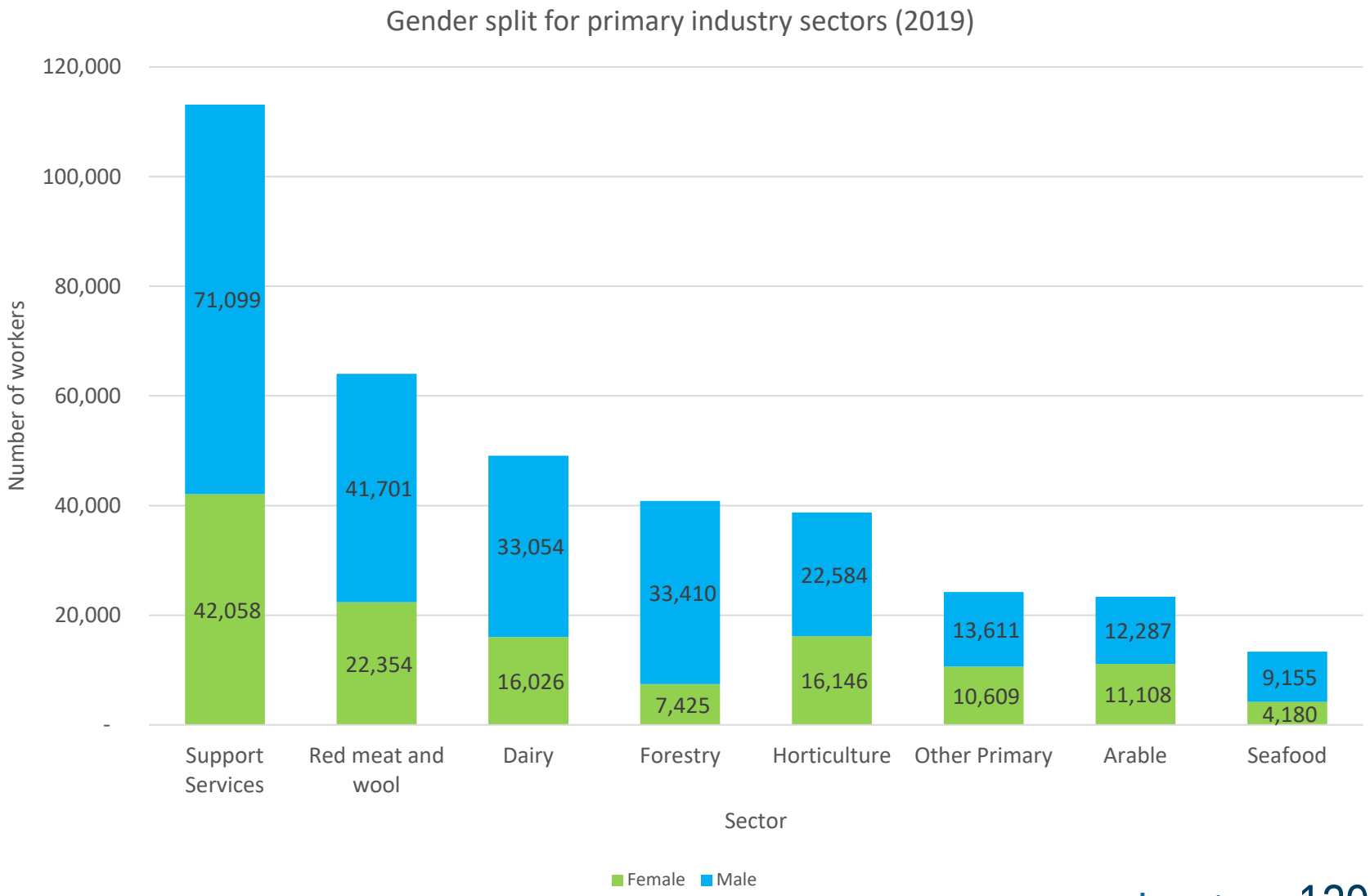
# Gender split by sector 2017



# Gender split by sector 2018



# Gender split by sector 2019



# Age profile by sector 2019

| | | Whole Industry | | | | | | Production | | | | | | Processing/Commercialisation | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sector | Employment Type | Female | | Male | | Total | | Female | | Male | | Total | | Female | | Male | | Total | |
| | | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median |
| Horticulture | Employee | 34.5 | 30 | 34.6 | 30 | 34.6 | 30 | 33.1 | 28 | 33.1 | 29 | 33.1 | 29 | 37.1 | 34 | 37.5 | 34 | 37.3 | 34 |
| | Self Employed/Bus Owners | 55.7 | 56 | 57.9 | 59 | 57.0 | 58 | 56.3 | 57 | 58.3 | 59 | 57.4 | 58 | 50.4 | 49 | 53.6 | 54 | 52.4 | 52 |
| Red Meat & Wool | Employee | 38.1 | 37 | 37.9 | 35 | 38.0 | 36 | 33.5 | 30 | 35.1 | 31 | 34.6 | 31 | 40.6 | 41 | 40.0 | 39 | 40.3 | 40 |
| | Self Employed/Bus Owners | 54.3 | 55 | 55.6 | 57 | 55.1 | 56 | 54.4 | 56 | 55.7 | 57 | 55.3 | 57 | 53.6 | 55 | 54.4 | 56 | 54.1 | 55 |
| Arable | Employee | 35.6 | 33 | 38.0 | 36 | 36.8 | 35 | 32.9 | 28 | 34.0 | 29 | 33.6 | 29 | 35.8 | 34 | 38.5 | 37 | 37.1 | 35 |
| | Self Employed/Bus Owners | 46.9 | 46 | 49.8 | 50 | 48.6 | 49 | 53.6 | 55 | 54.8 | 55 | 54.2 | 55 | 43.4 | 43 | 46.6 | 46 | 45.2 | 44 |
| Dairy | Employee | 35.0 | 33 | 37.0 | 35 | 36.3 | 34 | 32.1 | 29 | 32.9 | 31 | 32.7 | 30 | 39.2 | 39 | 43.7 | 44 | 42.2 | 43 |
| | Self Employed/Bus Owners | 47.4 | 47 | 48.4 | 48 | 48.0 | 48 | 47.4 | 47 | 48.4 | 48 | 48.0 | 48 | 48.8 | 49 | 51.3 | 53 | 49.5 | 51 |
| Seafood | Employee | 38.0 | 36 | 38.8 | 37 | 38.5 | 37 | 37.2 | 35 | 38.6 | 37 | 38.2 | 37 | 38.2 | 36 | 38.8 | 37 | 38.6 | 37 |
| | Self Employed/Bus Owners | 52.2 | 53 | 51.6 | 53 | 51.8 | 53 | 52.9 | 54 | 51.7 | 53 | 51.9 | 53 | 50.9 | 51 | 51.7 | 53 | 51.5 | 52 |
| Forestry | Employee | 41.5 | 42 | 40.9 | 41 | 41.0 | 41 | 39.1 | 40 | 37.5 | 36 | 37.7 | 36 | 41.8 | 43 | 41.8 | 42 | 41.8 | 42 |
| | Self Employed/Bus Owners | 52.9 | 54 | 53.3 | 55 | 53.2 | 54 | 54.3 | 56 | 53.8 | 56 | 54.0 | 56 | 51.9 | 53 | 53.0 | 54 | 52.7 | 53.5 |
| Other Primary | Employee | 38.1 | 37 | 39.2 | 38 | 38.7 | 37 | 36.0 | 34 | 36.5 | 33 | 36.3 | 33 | 38.7 | 38 | 40.2 | 39 | 39.5 | 39 |
| | Self Employed/Bus Owners | 50.9 | 52 | 51.8 | 53 | 51.4 | 52 | 51.1 | 52 | 51.2 | 52 | 51.2 | 52 | 50.4 | 51 | 52.9 | 54 | 51.9 | 53 |
| Support Services | Employee | 38.4 | 37 | 39.6 | 38 | 39.2 | 37 | | | | | | | | | | | | |
| | Self Employed/Bus Owners | 49.2 | 49 | 51.5 | 52 | 50.7 | 51 | | | | | | | | | | | | |