New Zealand Food Safety

Haumaru Kai Aotearoa

Source Assigned Campylobacteriosis in New Zealand Study (SACNZS)

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Scientific Interpretive Summary

This SIS is prepared by MPI risk assessors to provide context to the following report for MPI risk managers and external readers.

SOURCE ASSIGNED CAMPYLOBACTERIOSIS IN NEW ZEALAND STUDY (SACNZS)

New Zealand has a high level of foodborne campylobacteriosis. Despite an initial 50% decline in human notified rates following the implementation of poultry food chain-focused interventions between 2006 and 2008, the annual incidence has been relatively static in recent years. Knowledge of the overall risk factors for human campylobacteriosis in New Zealand is out of date, being based on epidemiological data from the mid-1990s.

To better inform a comprehensive food-borne campylobacteriosis risk management strategy, New Zealand Food Safety commissioned a year-long (2018 – 19) source-assigned case-control study of notified human cases of campylobacteriosis. The methodology incorporated a case control study and a nested source attribution study to estimate the relative contributions of different reservoirs and exposure pathways to the burden of human illness.

Human cases of notified campylobacteriois and age matched controls were interviewed in the areas served by Auckland and MidCentral Public Health Services. *Campylobacter jejuni* and *coli* were confirmed in faecal isolates from the cases. Isolates were similarly cultured from poultry, sheep and cattle processors serving these populations. Whole genome sequencing was carried out on the isolates.

Primary study outcomes:

1. Proportions of human cases of campylobacteriosis that can be associated with individual source reservoirs

The source assignment models provided estimates of the number of cases that could be assigned to a source:

- Poultry 84%
- Sheep 0%
- Cattle 14%
- Unassigned 2%

The pattern of source assignments for urban and rural cases were different, with about 90% of urban campylobacteriosis cases assigned to poultry sources and less than 75% of rural cases being apportioned to this source; the proportion of poultry source-assigned cases increased as the location of the cases became more urban.

2. Proportions of human cases of campylobacteriosis that can be attributed to foodborne and other pathways

Poultry is the most commonly consumed meat type in New Zealand and greater than 80% of people involved in the current study as cases or controls had consumed poultry within the previous 7 days., Sspecific risk factors associated with consumption of poultry resulted in statistically significantly elevated odds ratios e.g. consumption of undercooked chicken, consumption of chicken outside the home. The overall findings examining the source attribution and specific risk factors indicate that poultry meat remains the dominant pathway for exposure and infection.

- 3. Statistically significant risk factor values (e.g. odds ratio estimates) for human campylobacteriosis
 - Significant risk from a number of risk factors associated with poultry handling and preparation in the home
 - Eating chicken outside the home
 - Raw milk consumption in urban cattle-associated cases
 - Eating a vegetarian meal
 - Living and/or working on a farm, and direct animal contact, particularly for cattleassociated cases. This includes exposure to chickens
 - Rainwater/roof tank as a water source, either in the home or elsewhere
 - The use of proton pump inhibitors as a medication
 - Contact with another person with gastrointestinal symptoms.

The findings from this study will be of major importance in informing Food Safety New Zealand's future Campylobacter risk management strategy.

SOURCE ASSIGNED CAMPYLOBACTERIOSIS IN NEW ZEALAND STUDY (SACNZS)

Prepared for Ministry for Primary Industries under

Project MRP/17/04 – Source Attribution of Campylobacteriosis in New Zealand Study (Phase 4),
as part of an overall contract for scientific services

by

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EXECUTIVE SUMMARY

Campylobacteriosis is the most commonly notified enteric disease in New Zealand, having the greatest health burden of food-borne diseases. Sentinel source attribution work demonstrates poultry to be the major reservoir for human infections, with ruminants also being a reservoir.

Despite the initial decline in human campylobacteriosis following the implementation of poultry food chain-focused interventions (disease notifications reduced by 50%, 2006-2008), the annual incidence has been relatively static in recent years. Knowledge of the overall risk factors for human campylobacteriosis in New Zealand is out of date, being based on epidemiological data from the mid-1990s.

So as to better inform a comprehensive food-borne campylobacteriosis risk management strategy, New Zealand Food Safety commissioned a year-long source-assigned case-control study of notified human cases of campylobacteriosis. The methodology incorporated a case control study and a nested source attribution study to estimate the relative contributions of different reservoirs and exposure pathways to the burden of human illness.

The study approach included:

- A case-control study of notified cases sampled in a major urban centre (represented by the region served by Auckland Regional Public Health Services) and a mixed urban/rural area (represented by the region served by MidCentral Public Health Services), between 12 March 2018 and 11 March 2019. Controls were members of the New Zealand Health Survey (NZHS) cohort who had given consent to be approached to participate in further studies.
- Assignment of source reservoir attribution of the human campylobacteriosis cases sampled from these two regions over a year. This was done by Whole Genome Sequencing of Campylobacter jejuni and C. coli isolates from faecal samples of notified human cases and from relevant sources (poultry, cattle, sheep), and using modelling to assign a probable source for each case.
- A source-assigned case-control study of a subset of the notified cases of campylobacteriosis in the New Zealand population.

Approval for the study was obtained from the Health and Disabilities Ethics Committee on 20 December 2017.

The number of case interviews completed were 598 in Auckland and 258 in Manawatū-Whanganui, giving a total of 856 interviewed cases. A total of 1080 clinical isolates were obtained from cases, including those who were not interviewed. The number of cases who were interviewed, and for which a clinical isolate was obtained, was 666 (Auckland 445, Manawatū-Whanganui 221).

As targeted, 600 controls were recruited and interviewed, with an age distribution that matched the age distribution of cases.

Source isolates recovered across the study were poultry (209), sheep (194) and cattle (172).

All cases were eligible by being notified to the human health notifiable disease surveillance system, while controls were eligible by being members of the NZHS cohort. We attempted to frequency match controls to case by region and age in order to reduce the impact of

confounding by these variables. Residual confounding resulting from imperfect matching was considered by adjusting for these variables in multivariate models.

Presentation to general practitioners by cases may have resulted in selection bias; the cases were a particular subset of all cases in the community and therefore unlikely to be representative of all cases in the population. The effect of this bias could not be determined, but when interpreting the risk factors it needs to be borne in mind that these are risk factors for the subset of cases presented to general practitioners. Efforts were made to minimise the impact of bias by using a standardised approach to interviewing both cases and controls, although the interviews were carried out by different organisations. Using the NZHS cohort reduced the likelihood of refusal to participate, but the fact that the cohort comprises the subset of individuals from the, originally randomly-selected, cohort who are willing to participate in future studies may have introduced bias if this is associated with risk factors considered in the study.

Some degree of recall bias in relation to food consumption is inevitable in a study such and this was minimised by using a study design that limited the time from illness to interview to 48 hours or less, and asked questions relating to the recent past (7 days for food consumption). We note that any recall bias is likely to be similar in cases and controls.

Source isolates were obtained from samples provided by meat and poultry plants that were likely to constitute the main supply to the study regions. However, meat and poultry distribution pathways will always be complex within a country and therefore the source samples would not have been fully representative of the food supply in the Auckland and Manawatū-Whanganui regions.

Primary study outcomes:

 Proportions of human cases of campylobacteriosis that are associated with individual source reservoirs

The source assignment models provided estimates of the number of study cases that could be assigned to a source:

- Poultry 553/656 (84%)
- Sheep 0 (0%)
- Cattle 93/656 (14%)
- Unassigned 10 (2%)

The pattern of source assignments for urban and rural cases are quite different, with about 90% of urban campylobacteriosis cases assigned to poultry sources, while less than 75% of rural cases were assigned to this source. The proportion of poultry source-assigned cases increases as the location of the cases becomes more urban.

 Proportions of human cases of campylobacteriosis that can be attributed to foodborne and other pathways

Poultry meat has been identified as a significant pathway for campylobacteriosis in New Zealand, and the decline in incidence in 2007-2008 has been linked to interventions in broiler meat production. Poultry is the most commonly consumed meat type in New Zealand and greater than 80% of people involved in the current study as cases or controls had consumed poultry within the previous 7 days. Under these study circumstances, differentiation of poultry consumption between cases and controls as a statistically significant overall risk factor would be less likely to be detected. On the other hand, more specific risk factors associated with consumption of poultry did result in statistically significantly elevated odds ratios e.g. consumption of undercooked chicken, consumption of chicken outside the home. Thus the overall findings examining the source attribution and

specific risk factors indicate that poultry meat remains the dominant pathway for exposure and infection.

Direct exposures to poultry birds with significantly elevated odds ratios include: contact with domestic poultry (reported by 6% of cases), contact with chickens (12% of cases) at home (9% of cases) or outside the home (3% of cases). This indicates that while direct contact with poultry presents a significantly elevated risk, it affects only a small proportion of the poultry attributed cases.

While raw milk consumption was a significant risk factor in the univariate analysis, it was reported in only a small proportion (4.1%) of cases.

Risk factor values (e.g. odds ratio estimates) for human campylobacteriosis

The following is a summary of the risk factor calculation results.

- Living and/or working on a farm, and direct animal contact are significant exposure pathways, particularly for cattle-associated cases. This includes exposure to chickens.
- Raw milk consumption is a significant risk factor for urban cattle associated cases.
- Eating chicken outside the home is a significant risk factor for illness. There
 are many possible reasons for this, and the result is consistent with the
 previous case-control study.
- Although chicken consumption is not significant, there is elevated risk from a number of risk factors associated with poultry handling and preparation in the home.
- Eating a vegetarian meal is a significant risk factor, possibly because it contains uncooked foods.
- Rainwater/roof tank as a water source, either in the home or elsewhere, is a risk factor for campyloabcteriosis.
- The use of proton pump inhibitors as a medication is a significant risk factor for infection.
- Contact with another person with gastrointestinal symptoms, particularly close contact, is a risk factor.
- Exposure to compost was a risk for infection in the initial univariate analysis, but after selection of actual compost exposures, this was no longer significant.

INTRODUCTION

Campylobacteriosis is the most commonly notified enteric disease in New Zealand. Despite an almost halving in the notified case rate following food-related interventions [1] it still has the greatest health burden of food-borne diseases in New Zealand [2, 3]. Sentinel source attribution work demonstrates poultry to be the major reservoir for human infections, with ruminants also being a reservoir [4-6].

Minimising the risk to consumers of foodborne disease is a primary goal for New Zealand Food Safety (NZFS). While NZFS has responsibility for food safety, the Ministry of Health (MoH) has the broader responsibility of minimising transmission of communicable diseases by non-food pathways to humans.

Despite the initial decline in human campylobacteriosis following the implementation of poultry food chain-focused interventions (disease notifications reduced by 50%, 2006-2008), the annual incidence has been relatively static in recent years [7]. This situation raises a number of risk management questions and key amongst them is determining the relative importance of **all** source reservoirs and their likely exposure pathways. While still focused on minimising poultry meat risks transmitted via the food chain, NZFS and MoH face the additional challenge of identifying and implementing risk management measures for other pathways that will contribute significantly to a reduction in human cases of campylobacteriosis in New Zealand.

Currently, knowledge of the pathways to human infection of non-poultry associated campylobacteriosis in New Zealand is relatively weak [1]. Knowledge of the overall risk factors for human campylobacteriosis in New Zealand is out of date, being based on epidemiological data from the mid-1990s [8, 9]. Generic risk factors such as dietary exposure to fresh poultry meat in different age groups, occupational and recreational exposure, and untreated drinking water have changed over this period. The ability to examine individual risk factors (e.g. raw milk consumption, barbequing chicken during summer) is also inadequate.

So as to better inform a comprehensive food-borne campylobacteriosis risk management strategy, NZFS commissioned a year-long source-assigned case-control study of notified human cases of campylobacteriosis. The methodology incorporated a case control study and a nested source attribution study to estimate the relative contributions of different reservoirs and exposure pathways to the burden of human illness.

This study is the first of its kind, using both whole genome sequencing (WGS) and the novel 'source-assigned case-control' design to achieve study objectives. In addition, the proposed methods are developments in microbiological source attribution encompassing epidemiological and genomic approaches [10, 11].

Purpose

The purpose of the study was to:

- Generate an up-to-date evidence base on the relative contributions of different source reservoirs of food-borne campylobacteriosis in New Zealand so as to inform a refreshed NZFS risk management strategy and action plan.
- Provide a body of information on non-food-borne pathways for human campylobacteriosis in New Zealand so as to inform potential future MoH risk management plans.

The objectives of the study were to estimate:

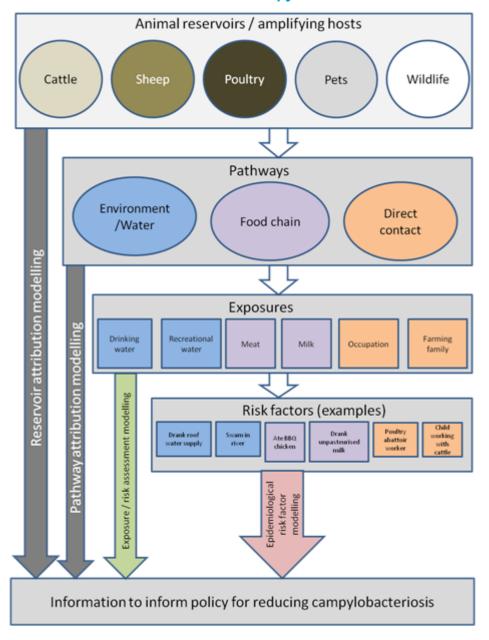
- Proportions of human cases of campylobacteriosis that are associated with individual source reservoirs.
- Proportions of human cases of campylobacteriosis that can be attributed to foodborne and other pathways.
- Proportions of human cases of campylobacteriosis that can be attributed to individual exposures.
- Risk factor values (e.g. odds ratio estimates) for human campylobacteriosis.

METHODS

General approach

Source attribution is the estimation of the relative contributions of different sources to the burden of human illness to inform policies for prevention and control. The different elements of campylobacteriosis source attribution fit within an overall framework [12] as shown in Figure 1. Source: [13].

Figure 1. Framework showing sources of information and modelling approach for the transmission of campylobacteriosis



The study approach included:

- A case-control study of notified cases sampled in a major urban centre (represented by the region served by Auckland Regional Public Health Services) and a mixed urban/rural area (represented by the region served by MidCentral Public Health Services), between 12 March 2018 and 11 March 2019.
- Assignment of source reservoir attribution of the human campylobacteriosis cases sampled from these two regions over a year. This was done by WGS of Campylobacter jejuni and C. coli isolates from faecal samples of notified human cases and from relevant sources (poultry, cattle, sheep), and using modelling to assign a probable source for each case.
- A source-assigned case-control study [10] of a subset of the notified cases of campylobacteriosis in the New Zealand population.

Participating organisations, accountabilities and timeline

Sponsor and funder: NZFS, Ministry for Primary Industries (MPI)

Study design, planning and execution: Massey University and the Institute of Environmental Science and Research (ESR) in collaboration

Participating Public Health Services (case interviews): Auckland Regional Public Health Services (ARPHS), MidCentral Public Health Services (MCPHS)

Contracted control interview provider: UMR Research

Control population: members of the New Zealand Health Survey (NZHS) cohort resident in the above public health services catchment areas who had given permission to the Survey to be informed of and contacted to request their participation in other health studies.

Participating human diagnostic laboratories: Labtest (Auckland), hospital laboratories at Middlemore, Auckland and North Shore Hospitals, Medlab Central (Palmerston North)

Source samples: provided by poultry processor laboratories suggested by the Poultry Industry Association of New Zealand (PIANZ), and cattle and sheep meat processing plants recommended by the Meat Industry Association (MIA).

Study Setting/Locations

The study was conducted in two public health services (PHS), serving five district health boards (DHBs), distributed around New Zealand, covering approximately 40% of the New Zealand population in 2016:

- Auckland Regional Public Health Services (Auckland, Waitemata and Counties Manukau DHBs)
- MidCentral Public Health Services (MidCentral and Whanganui DHBs).

Population and 2016 notification data for the two PHSs are shown in Table 1.

Table 1. Background data for the two public health services, 2016

Name	District Health Board (DHB) Coverage	Proportion of New Zealand Population Covered ^a	Campylobacteriosis notifications
Auckland Regional Public Health Services (ARPHS)	Auckland, Waitemata, Counties Manukau	34.7%	1799
MidCentral Public Health Services (MCPHS)	MidCentral, Whanganui	5.3%	384

^a Source: http://archive.stats.govt.nz/browse for stats/population/estimates and projections/subnational-popestimates-tables.aspx

For the remainder of this report the two study regions are referred to as Auckland and Manawatū-Whanganui.

Study Population

The study population (cases) was drawn from all laboratory notified cases of campylobacteriosis during the period of the study (one year) aged six months and over with a recorded place of residence in the regions covered by the Auckland and MidCentral PHSs on date of notification.

The PHSs were selected to give a reasonable representation of the New Zealand population, based on current knowledge of human demographics and reservoir sources associated with campylobacteriosis, including:

- geographical location (urban/rural)
- population ethnicity
- farming types dairy, beef, sheep.

Selection of sample size

It was estimated that case numbers of ~1100 and control numbers of 600 would provide sufficient power to detect odds ratios in the range that would be expected from a case control study into enteric disease. These estimates were supported by the following calculations.

The larger case set of ~1100 cases provided a case:control ratio of ~1.8. The estimated odds ratios that would be detected with 80% power and 5% significance given 1100 cases

and 600 controls for a range of exposure prevalences in cases and controls are shown in Table 2.

Table 2. Odds ratios for varying exposure prevalences, in the larger case control study with ~1,100 cases interviewed

Controls exposed (%)	Odds ratio ^a	Cases exposed (%)
1	3.3	3.2
2.5	2.2	5.3
5	1.8	8.7
7.5	1.7	12.1
10	1.6	15.1
20	1.4	25.9

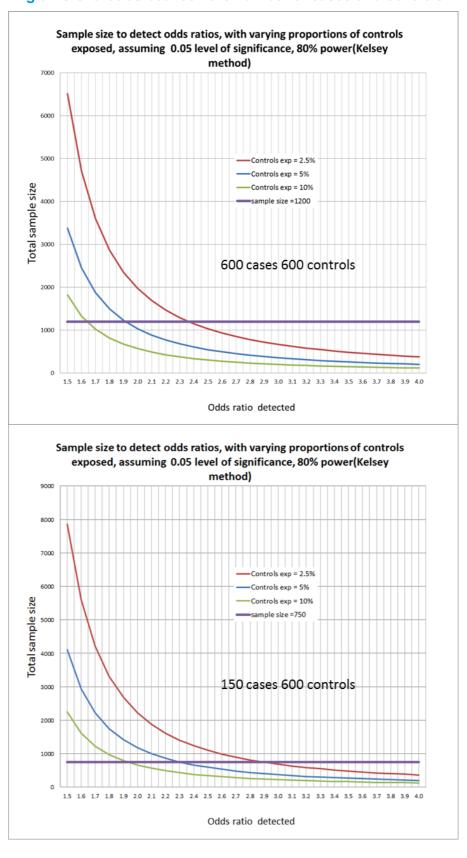
^a Detected with 80% power, assuming a P value of 0.05 (Kelsey method)

For the nested source-assigned case-control study, a 1:1 case:control ratio was targeted, with 600 cases and 600 controls recommended. This target was based on the rationale that a conventional study with at least 600 cases and 600 controls would provide 80% power to detect an odds ratio of ~2.4 at a significance level of 0.05 for an exposure that occurred in 2.5% of the controls (e.g. the estimated proportion of people consuming raw milk in New Zealand). Figure 2 illustrates the relationship between sample size and power using the Kelsey method [14].

For a source assigned subset of 150, such as a ruminant-assigned subset, the same number of controls (i.e. at a 1:4 case:control ratio as there would still be 600 controls) would detect an odds ratio of 3.0 with 80% power at a significance level of 0.05 for an exposure that occurred on 2.5% of the controls. Such a sample size is achievable within a 12 month period in two locations. As source attribution studies have not been conducted in areas other than Manawatū-Whanganui to date, it was difficult to predict how many cases would be assigned to ruminants and poultry in both Auckland and Manawatū-Whanganui. However, a detailed analysis of the Manawatū-Whanganui data, adapting the asymmetric island model to include rurality as a covariate [15], indicated that in highly urban areas approximately 20–25% of cases would be attributed to ruminants. Assuming a similar attribution to urban Auckland, and including the Manawatū-Whanganui cases, an estimate of 150 ruminant associated cases was considered to be reasonable. Further, a study duration of at least 12 months would capture seasonal patterns.

The typing of at least 150 isolates from each source was considered to provide sufficient statistical power, based on a previous analysis of the precision afforded by different sample sizes in source attribution studies [16].

Figure 2. Relationship between sample size, power and the odds ratio detected assuming different ratios between the number of cases and controls



Case selection

Laboratory-confirmed notified cases of campylobacteriosis aged six months or more notified to the participating PHSs from 12 March 2018 to 11 March 2019 were identified and every other case (i.e. half the cases) or their proxies (parent or guardian) were selected in the Auckland region and every case or proxy selected in the Manawatū-Whanganui region.

Cases were individuals notified by a diagnostic laboratory as being positive for Campylobacter spp. and, therefore potentially subject to PHS investigation/management.

Study case definition

A case to be entered in the study was a person notified to a participating PHS 12 March 2018 to 11 March 2019 who:

- Had a recent acute illness with symptoms of diarrhoea, abdominal pain and/or cramps, which may have been accompanied by fever and blood in the stool, or who had a medical reason for a clinical sample being submitted.
- Had a *Campylobacter jejuni* or *C. coli* infection culture confirmed by ESR's Public Health Laboratory (PHL).
- Had not been detected by case finding in an enteric disease outbreak investigation.
- Had completed a case interview.

Exclusion criteria for cases

Case were excluded from the study if, during interview, it was determined that a notified person:

- Was asymptomatic
- Was unable to recall onset date of symptoms.
- Had onset of symptoms(s) more than 14 days prior to date of notification.
- Was not able to communicate (personally or through proxy if child) in English.
- Was resident in an institution or equivalent (i.e. did not have access to a personal phone) at date of notification.
- Had another episode of gastrointestinal illness in the month prior to the current illness.
- Had travelled overseas during the incubation period (7 days prior to illness onset).

Targets for case numbers

In order to determine how many cases needed to be selected for interview, certain assumptions were made:

- There would be similar numbers of notified cases in the two locations from 12 March 2018 to 11 March 2019 as for the 2016 calendar year. The case total was adjusted by excluding cases less than six months of age. In 2016, the numbers of notified cases less than six months were seven and one for Auckland and Manawatū-Whanganui, respectively.
- Approximately 5% of cases would be excluded for not meeting the case definition (asymptomatic, onset >14 days before notification, non English speakers, institutionalised (no phone access)).
- A further 10% of cases would either refuse to participate, or the interview would be incomplete. This estimate was based on the experience from a recent New Zealand STEC case-control study where 93.5% of cases were recruited [17].

Selecting every second case (900 cases) for interview in the Auckland region would generate up to approximately 770 interviewed cases, and every case in the Manawatū-Whanganui region (384 cases) would generate up to approximately 330 interviewed cases, total 1100 cases (See Figure 3).

Control selection

The NZHS is an annual survey of individuals from approximately 14,000 randomly-selected households. The survey collects information about common health conditions and diseases, health services used, and factors that affect New Zealanders' health [18]. Members of the NZHS cohort, who had given consent to be approached to participate in further studies, were the control population.

Study control definition

From the NZHS cohort, controls were defined as; a person who was resident in the participating PHSs from 12 March 2018 to 11 March 2019 who:

- Had not been notified with campylobacteriosis in last 30 days.
- Had not had a recent (within last 30 days) acute illness with symptoms of diarrhoea, abdominal pain and/or cramps, which may be accompanied by fever and blood in the stool.
- Was able to communicate (personally or through proxy if child) in English.
- Was not resident in an institution or equivalent ((i.e. does not have access to a personal phone) at date of notification.
- Was not part of an enteric disease outbreak already identified at date of selection.

Targets for control numbers

NZHS cohort population numbers in relevant areas are shown in Table 3 (Neil Tee, CBG Health Research Ltd., pers. comm., August 2017). Note that this is the population figure including both adults and children; the actual number of households was 3720.

Table 3. NZHS cohort numbers in relevant DHBs.

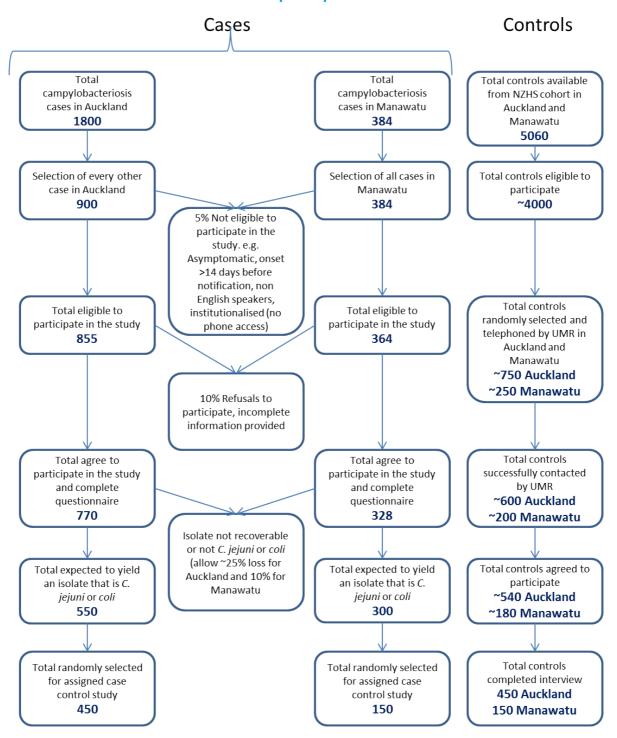
DHB	NZHS Cohort population
Auckland	1100
Counties Manukau	1650
Waitemata	650
MidCentral	1200
Whanganui	460
All	5060

DHB: District Health Board, NZHS: New Zealand Health Survey

The control interview provider advised that this pool of interviewees was sufficient to recruit the 600 control interviews required (Alice Kan, UMR, pers. comm.).

An overview of the study design and target sample sizes is provided in Figure 3.

Figure 3. Design flow diagram showing recruitment of cases and controls and estimated participation rates



The loss to follow-up of controls was difficult to predict as the participants were highly motivated members of an existing cohort. Estimates for control losses were based on this assumption, and case loss estimates were based on a previous STEC case control study [17].

Recruitment of participants

Background

Campylobacteriosis is a notifiable disease under the Health Act 1956 and thereby notified cases are subjected to public health investigation and management as appropriate. Notification to the local medical officer of health of scheduled diseases, including campylobacteriosis, is required by both clinical laboratories and diagnosing clinicians, with laboratory reporting usually occurring first. Laboratories employ a range of detection methods for *Campylobacter*, some being culture-based and others rapid detection.

The case-control element of the study was designed to integrate as fully as possible with standard public health services case investigation and management processes and to make the minimum imposition on cases and controls. Case interviews were required to be carried out as rapidly as possible after notification, to allow for the best exposure/risk factor recall within the disease's incubation time of up to 10 days. There would have been already at least a five-day interval from an individual's exposure to *Campylobacter* to his/her notification as a case of campylobacteriosis due to disease incubation and clinical and/or laboratory diagnosis.

The study data collection occurred over 365 days, both human campylobacteriosis cases and *Campylobacter* in potential exposure sources varying by season [19].

Recruitment of cases

At the time of phone contact by public health staff, all selected notified cases of campylobacteriosis (or their proxy reporters) within the participating PHSs were informed of the study and its details. Cases were asked if they wished to contribute anonymised information to the study. If they gave verbal consent, a questionnaire was administered over the telephone by the public health employee. This gathered both normal public health investigation information and more detailed risk factor and exposure data (see attached questionnaire in Appendix A). Personal identifiers were collected at this stage, as the questionnaire responses fulfilled both public health and study purposes. Cases who chose not to participate in the study were asked to co-operate with standard public health investigation activities.

Following successful interview, cases were sent an information sheet on the study, contact details for further information, and details of how to withdraw their interview information if they had changed their mind (See Appendix B). A website was also established to provide another channel for further information (Appendix C).

The step-by-step process included:

- 1. PHS receives notification from laboratory or clinician for campylobacteriosis.
- 2. PHS creates campylobacteriosis case in EpiSurv.
- 3. Create case process that initiates questionnaire in REDCap¹ for every second case for Auckland and every case for Manawatū-Whanganui.
- 4. PHS initiates contact with cases, making up to 3 attempts within 2 days.
- 5. PHS conducts interview with case by using the REDCap questionnaire.

¹ REDCap (Research Electronic Data Capture), a browser-based, metadata-driven electronic data capture (EDC) software solution and workflow methodology for designing clinical and translational research databases.

- 6. If case agrees and interview is complete, then all data are uploaded to the SACNZS database, and EpiSurv² form is populated.
- 7. If case declines, for Manawatū-Whanganui only the EpiSurv case report form is populated, while at Auckland the interview is concluded.

Recruitment of controls

The Chief Client Officer, Ministry of Health (MoH) gave permission for members of NZHS cohort, who had given consent to be approached to participate in further studies, to be contacted. ESR sent a letter to all those individuals resident in the DHBs served by the two PHSs, informing them of the study, that it had MoH support and HDEC Ethics Approval (Appendix D) and that they may be contacted and asked to participate.

The MoH's NZHS contractor supplied these persons' contact details to the study. A market research company experienced in public health research was contracted to recruit, by telephone, participants fulfilling the control criteria from this database and carry out interviews with them. Frequency matching occurred to the level of expected individual PHS case proportions and broad population age distributions. Verbal consent was obtained using the identical study description information as for cases, unless inappropriate e.g. where referred to having been notified with campylobacteriosis. The same questionnaire, minus personal identifiers and current campylobacteriosis illness specific questions and subjected to cognitive testing processes by the company, was administered by telephone by trained interviewers.

Measurement tools used

Based on previously published studies, both in New Zealand and overseas, expected risk factors for campylobacteriosis were:

- Living or working on a farm/animal processing
- Direct contact with animals
- Poor personal hygiene (lack of handwashing)
- Occupations that involve working with animals, food, the outdoors, contact with sick people (healthcare/rest home, early childhood)
- Taking gastric treatment that reduces the acidity of the stomach
- Taking immunosuppressive drugs, or having immunosuppressive treatment
- Having a long term gastrointestinal illness
- Overseas travel to certain countries
- Contact with sick people (although person-to-person transmission is considered less likely for campylobacteriosis than other enteric illnesses)
- Consumption of certain foods, particularly poultry, and raw milk products
- Consumption of undercooked foods, particularly poultry (pink in the interior)
- Consumption of uncooked foods, particularly salads, vegetables, fruit
- Handling of certain (contaminated) foods, particularly poultry, during food preparation
- Handling of certain (contaminated) foods, particularly poultry, during food preparation without hygienic handling and cleaning, leading to cross contamination
- Consumption of certain foods in particular settings
- Consumption of untreated water
- Recreational swimming/activities in contaminated water

² EpiSurv is the national notifiable disease surveillance database, operated by ESR on behalf of MoH. It is a secure web-based application based on the Surveillance Information New Zealand (SurvINZ) architecture.

- Handling contaminated materials, especially contaminated with human or animal faeces
- Cross contamination caused by flies.

A purpose designed questionnaire was administered by telephone to cases and controls. It was designed utilising experience and questions from enteric disease attribution studies in both New Zealand and internationally. It was both pretested and piloted and received cognitive testing by the company contracted to conduct the control interviews.

The questionnaire (see Appendix E) covered the following topics:

- Introductory questions
- Consent
- Eligibility
- Demographics
- Illness
- Travel
- Activities
- Exposures
- Food consumption, preparation and kitchen hygiene.

Testing showed it took approximately 20 minutes to administer, although the overall contact time could be longer if the case sought public health advice.

Administration to cases was by public health staff and to controls by market research staff. All interviewers (at the market research unit and PHSs) were trained in both using the tool and data entry.

Case-control study

PHS staff aimed to contact cases within two days of e-notification, making a minimum of three attempts, allowing one day's grace for public holidays.

Consenting cases had a questionnaire administered to them by telephone by public health staff which was directly entered into REDCap and also populated their EpiSurv case record. Cases who chose not to participate in the study were asked to co-operate with standard public health investigation activities at MCPHS (i.e. completion of the EpiSurv questionnaire at MCPHS) or sent information on illness management and prevention (ARPHS).

Cases who, based on their questionnaire responses, did not fulfil the inclusion criteria or met the exclusion criteria were withdrawn from the study and had their REDCap records erased. EpiSurv records of all cases were retained for public health services purposes.

Each case's record in the master data file was then anonymised and assigned a study number to be used as a unique identifier for the overall study dataset.

Controls were contacted using the same introductory text as the cases, and were interviewed by telephone by staff from a contracted market research company using a questionnaire that was aligned with that for cases (excluding questions regarding the illness) (see Appendix E).

Data handling

ESR operates the national notifiable disease surveillance database, EpiSurv, on behalf of MoH. It is a secure web-based application based on the Surveillance Information New Zealand (SurvINZ) architecture. Diagnostic laboratories electronically notify cases of notifiable diseases into EpiSurv, which collates the information on a real-time basis. Case identifiable data is held at the individual's local public health services and the national dataset holds de-identified data. Public health services use EpiSurv as their recording vehicle for case investigations, with data collected including case demographics, clinical features and risk factors.

Eligible cases triggered the initiation of a study interview, using the questionnaire for the participating PHSs. Questionnaire information from consenting cases was directly entered into the questionnaire configured for REDCap. Anonymised control responses were handled similarly, using Qualtrics, the software used by the market research company.

Each case's interview record was given a unique identifier to enable linkage to their laboratory sample. The NHI number from the lab isolate (see below) and the EpiSurv number from the PHS were used to link to the common study identifier, which was used as a unique identifier for the overall study dataset.

Case and control interview information recorded using REDCap or Qualtrics³ software, respectively, was entered into the secure web database by each PHS (cases) and the telephone survey company (controls), using assigned login and password, with access restricted to only those cases or controls that they interviewed. A study identification number was assigned by an ESR staff member with administrator privileges, and the ability to link EpiSurv and NHI numbers.

Address information for notified cases and controls was used to assign a meshblock, after geocoding of address information. The assigned meshblock formed part of the REDCap record. Data analysis was undertaken after the information in REDCap was extracted into an Excel spreadsheet on ESR's secure servers, with access again controlled to relevant staff. To ensure anonymity of study cases and controls was maintained, names and addresses did not form part of the individual records in the extracted dataset for the study. The REDCap interview records were retained in case checking was required until the end of the analysis phase, after which they were deleted.

Once a common study number had been assigned to the case and isolate as part of the study dataset, the NHI and EpiSurv numbers were deleted.

Data Analysis

Interviews

As different software was used for the computer assisted telephone interviewing (CATI) of cases (REDCap) and controls (Qualtrics), a programme was written in R, a language and environment for statistical computing [20], to consolidate, clean and align the two interview datasets. This programme was written by a programmer at ESR, and peer reviewed by another ESR programmer.

Some fields provided free text answers which were not amenable to computer processing and had to be examined manually. These fields were:

³ The UMR CATI system uses Qualtrics software. The REDCap survey was converted for implementation in the UMR CATI system matching question numbering etc. and ensure the data outputs are in the correct format

- Q 18 Brands of raw milk or raw milk products consumed
- Q 22a Specific illnesses suffered by animals that cases were in contact with
- Q 24b Locations where outdoor swimming or other activities took place
- Q 25 How/where contact with contaminated materials took place (soil, sand, human poo, manure or compost)

For a few questions, case answers were aggregated due to very small numbers of answers. In particular, the questions about whether product types of meat or poultry were pink on the inside when consumed provided very few 'Yes' answers for each individual product. For this question 'Yes' answers for each product were combined into a single answer for the meat or poultry type as a whole.

All data cleaning was performed in R with the help of libraries that are a part of the tidyverse [21]. Rmarkdown (Rmd) was used throughout the study to provide updates as new data was received.

Geographical classification (urban and rural)

Meshblocks were assigned using case and control residential addresses. The meshblocks were then used to assign a category of urban/rural according to a concordance from 2015 (based on the 2013 census).

The categories of urban/rural were taken from seven categories defined by Statistics New Zealand.⁴ The categories were:

- Main urban areas
- Satellite urban communities
- Independent urban communities
- Rural areas with high urban influence
- Rural areas with moderate urban influence
- Rural areas with low urban influence
- Highly rural/remote areas

These seven categories enabled analysis of the source attribution data with urban/rural as a scale variable across the seven categories.

Where a comparison of urban/rural as a binary variable was undertaken, the three urban and four rural categories were collapsed into urban and rural categories.

These analyses are presented as boxplots later in this report.

Seasonality

In New Zealand seasons are normally defined by the following calendar months:

Spring: September, October and NovemberSummer: December, January and February

Autumn: March, April and MayWinter: June, July and August

Results from the study have been tabulated into quarters. These quarters were:

First: 12 March 2018 to 10 June 2018
Second: 11 June 2018 to 9 September 2018
Third: 10 September 2018 to 9 December 2018

⁴ http://archive.stats.govt.nz/browse for stats/Maps and geography/Geographic-areas/urban-rural-profile/defining-urban-rural-nz.aspx accessed 13 August 2019

Fourth: 10 December 2018 to 11 March 2019

For the purpose of analysis, these quarters were designated autumn, winter, spring and summer.

Control interviews were provided without a specific date for the interview during each month, consequently for seasonal analysis control data were aggregated into the seasonal months above.

Occupations

Both cases and controls were asked about their occupations.

For cases, as part of the normal EpiSurv report form, occupation is selected from a drop down menu. This menu includes the Australian and New Zealand Standard Classification of Occupations (ANZSCO), 2013, Version 1.2. However, the list in EpiSurv has been augmented with a number of codes for categories not included in the ANZSCO List. Mostly these relate to categories such as mother, student, child, unemployed etc. In addition the ANZSCO coding was not always consistently applied, either for category, or level of specificity.

Consequently the occupation data for cases had to be examined manually, and some reassignments made to improve consistency.

For controls the listed occupations were dominated by the categories "NA" (130/600, possibly retired) and "Currently unemployed" (143/600, possibly also retired). This may reflect the composition of the NZHS cohort. Control occupations were not analysed further.

Univariate and multivariate analysis

Additional code files were written for the univariate logistic regression analysis and multivariate regression analysis. All exploratory data analysis/univariate logit results were then combined into this Rmd document. All code is conducted under Git version control in the R project.

To estimate the importance of exposure pathways, Population Attributable Fraction (PAF) values were calculated from multivariate models, which seek to better represent the multiple risk factors and their interactions than can be achieved with univariate models. Developing multivariate models is an iterative process, driven by specific hypotheses about the epidemiology of campylobacteriosis. Risk factor parameters to be included in the models are chosen based on researcher experience and plausible biological hypotheses.

The PAF gives the maximum proportion of diseased individuals in the population that can be attributed to the risk factor of interest. The adjusted PAF for case-control studies described by Bruzzi *et al.* [22] is defined as:

$$PAF = \frac{P_e (RR - 1)}{1 + P_e (RR - 1)}$$

Where P_e is the probability of exposure in the population to the risk factor being considered. RR is the relative risk which is replaced with the adjusted odds ratio calculated from a logistic regression model.

Several statistical techniques were adopted in order to determine which risk factors appeared most significant according to the data. These methods included:

1. Step-wise logistic regression: Step-wise regression is an approach for determining the 'best' model by the addition or removal of variables from the model that results in a reduction in the Akaike information criterion (AIC).

- 2. Least Absolute Shrinkage and Selection Operator (LASSO) approach. The step-wise logistic regression approach involves using ordinary least squares to fit a linear model that contains a subset of the covariates in the dataset. Rather than selecting a certain subset of covariates to include in the model, the LASSO approach allows us to fit a model which contains all risk factors (covariates), but shrinks some of these covariates coefficients towards zero. The shrinking of these coefficients to exactly zero makes the LASSO approach useful for selecting variables of importance and also helps overcome the difficulties of multi-collinearity faced in the step-wise logistic regression approach.
- 3. Random forests can be implemented in R using two different approaches. One is the R package randomForest [23]. One disadvantage of the randomForest package is that splits in trees are often favoured by variables with a large number of categories or numerical variables and that the dataset used must have no missing data. Techniques 1-3 require that there be no missing data, and so were applied to a subset of the full dataset. Another package in R for implementing random forests, the party package [24], allows for the incorporation of missing data and accounts for the splitting problem observed in the randomForest package. This package was applied to the full dataset.

In addition to these data-driven variable selection techniques, additional variables of importance based on researcher experience or plausible biological hypotheses were incorporated, and some variables that were significant according to the above methods but are not plausible were removed to prevent overfitting, particularly when modelling the cattle assigned cases where we have fewer numbers.

Further details on multivariate modelling are given in Appendix F.

Safety considerations

The risks to participants were minimal. Questions and interviewer's instructions were worded to ensure cases were not led to attribute causality for their illness to an individual, business or source. Should any interviewee demonstrate distress, the study interview was terminated and organisational protocols for such events applied.

The privacy of the research participants was paramount with all data of cases confirmed in the study being anonymised and records of others destroyed. Monitoring of compliance with data protection protocols within participating organisations occurred.

Source assigned case-control study

A source assigned study was nested within the case-control study. To enable source attribution, isolates of *Campylobacter jejuni* or *C. coli* from notified cases and sources (poultry, cattle, sheep) were obtained.

Human Campylobacter isolates

As outlined above, the source-assigned case-control study ideally required 600 interviewed cases, for which a *Campylobacter* spp. isolate had been obtained, sequenced and then attributed to potential sources. It was assumed that:

- Human faecal samples from notified cases were stored refrigerated for up to seven days before sending to ESR for processing to recover an isolate. Massey University experience is that up to 10% of samples stored for that period will not yield an isolate (Anne Midwinter, pers. comm.).
- Labtests laboratory in Auckland use a DNA-based test to identify notifiable cases of campylobacteriosis. They advised that for 15-20% of the samples which are positive based on the DNA test, an isolate cannot be recovered (Arlo Upton, Labtests,

- personal communication). Labtests provided the large majority of samples from the Auckland region.
- MedLab Central in the Manawatū-Whanganui region use a culture based test and no loss estimates were needed.

Swabs from faecal samples or colonies on plates used to isolate *Campylobacter* spp. from cases that were notified by the human diagnostic laboratories were forwarded to the ESR Public Health Laboratory, for processing to recover the *Campylobacter* spp. isolate and confirmation of the species as *C. jejuni* or *C. coli*. For other sample types (blood, tissue, CSF etc.) a swab from the positive culture plate was sent by the diagnostic laboratory, for the same processing.

Cases whose clinical sample did not confirm as being *C. jejuni* or *C. coli* were withdrawn from the study.

Human isolate estimates

- For an expected 770 interviewed cases from Auckland, it was estimated that an isolate would be recovered from approximately 550 samples.
- For an expected 330 interviewed cases from MidCentral, it was estimated that an isolate would be recovered from 300 samples.
- To generate the required number of 600 cases with interviews and an isolate, the
 expected Auckland:Manawatū-Whanganui split, based on 2016 notified cases was
 494:106. Given the need to enhance the number of rural cases so that risk factors
 for this population can be determined, it was decided to increase the sampling
 fraction in Manawatū-Whanganui.
- To provide increased numbers of rural cases the Auckland:Manawatū-Whanganui split was adjusted to 450:150.
- These 600 cases were to be selected at random from the estimated 850 cases who would have both an interview and an isolate.

Human isolate sampling procedures

Auckland Hospital Laboratory (LabPlus), Labtests Auckland, Middlemore Hospital and North Shore Hospital took a sample from the remaining faecal material using a charcoal swab, for cases from Auckland, Counties Manukau and Waitemata regions. Faecal material was taken from every sample processed by the laboratory giving a positive *Campylobacter* result, either by plate culture or polymerase chain reaction (PCR) direct test. Whilst the original sample was likely to be a faecal sample, other samples (blood, tissue etc.) were not excluded. The swabs were collected as soon as possible after receiving a positive result and the swab was placed back in its original container and refrigerated at 4°C for up to a week before sending to ESR. The swabs were identified by the NHI number accompanying the notification. The swabs were couriered weekly to ESR at ambient temperature.

Medlab Central Laboratory took samples from cases from Manawatu and Whanganui regions. Using a charcoal swab, a sample was taken from several *Campylobacter* colonies with identical morphology that appeared on each positive culture plate. The swabs were collected as soon as possible after receiving a positive result and the swab was placed back in its original container and refrigerated at 4°C for up to a week before sending to ESR. The swabs were identified by the NHI number accompanying the notification. The swabs were couriered weekly to ESR at ambient temperature.

Source Campylobacter isolates

Concurrently with the 12-month case-control and human isolate parts of the study, a sampling programme was conducted to obtain *Campylobacter* spp. isolates to allow source assignment. Samples were obtained monthly from the same regions as the participating PHSs, and included poultry and ruminant animals (dairy and beef cattle, sheep). Isolates were obtained through standardised sample processing protocols, and purified and confirmed *C. jejuni* and *C. coli* isolates were extracted to provide DNA for WGS. The sampling programme was designed to provide sufficient numbers of isolates (150 from each source, see below) to allow source assignment of the isolates from human cases (Figure 4).

Poultry

Laboratories providing analytical services to companies belonging to PIANZ, as well as poultry plant laboratories, provided culture plate swabs to enable recovery of 150 isolates from their monitoring sampling conducted for the National Microbiological Database (NMD). Recovery rates of isolates from these culture plate swabs was expected to be 90% or better, so it was expected that approximately 170 swabs would be required (Figure 4).

Poultry isolates were provided by processing plants belonging to four major New Zealand poultry processing companies.

Of the poultry plants included in the study, one has its own laboratory, otherwise laboratory testing is carried out by commercial laboratories. Sampling was arranged with these laboratories, having first obtained permission from the relevant poultry processing companies.

Ruminants

The aim was to obtain 150 isolates each from cattle and sheep sources (total 300), obtained from meat plants in the North Island, serving the retail markets in Auckland and Manawatū-Whanganui. Charcoal swabs of faecal material were taken from the recto-anal junction from animals immediately after slaughter. One swab from each of four animals was considered as a single sample (combined in a broth on arrival at ESR).

Assuming a prevalence of 90% in pooled four-animal samples (as found in on-farm sampling in Manawatū-Whanganui), it was estimated that 170 pooled samples from each species over 12 months would be needed (14 per month per species, 4 per plant and 16 animals for slaughter plant sampling) (Figure 4). Sampling was conducted by veterinarians or microbiologists at each plant.

Regular liaison with meat plants was maintained to accommodate seasonal variations in the number and type of animals being processed (especially during bobby calf season). Frequency and numbers of samples were adjusted to manage these variations.

Poultry source sampling procedures

Five poultry plants each provided up to four swabs each month. Using a charcoal swab, a single colony from one of the confirmed positive NMD plates were provided (i.e. one isolate per positive plate). The swabs were collected as soon as possible after receiving a positive result and the swab was placed back in its original container and refrigerated at 4°C for up to a week before sending to ESR. The swabs were couriered weekly to ESR at ambient temperature.

In August 2018, the provision of positive *Campylobacter* swabs for the poultry processing plants were arranged through the Antimicrobial Resistance (AMR) Project funded by NZFS. The AMR project received more positive samples each month than the SACNZ project

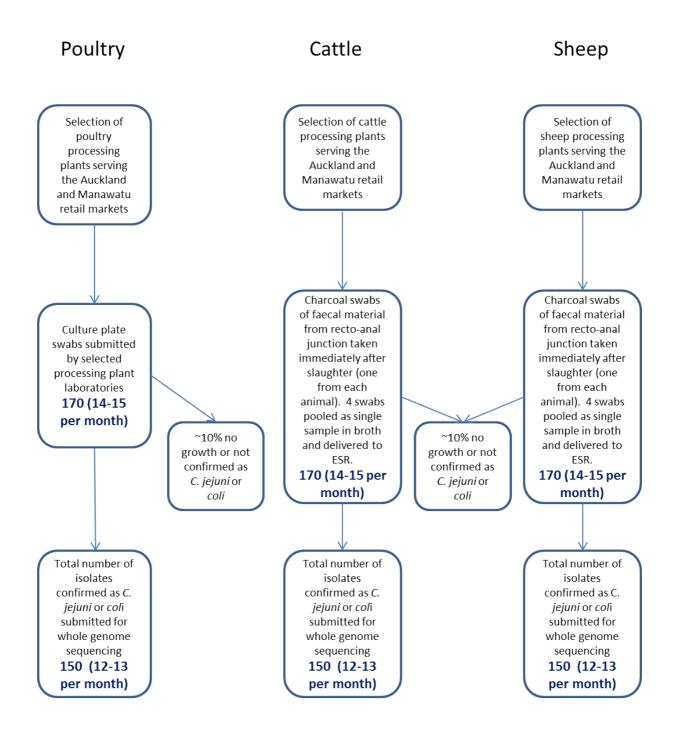
required. Therefore, the first four swabs received from each plant were designated SACNZ samples.

Further detail on microbiological procedures is given in Appendix G.

Ruminant source sampling procedures

Four cattle processing plants and three sheep processing plants each provided 20 faecal swabs each month. Cattle faecal sampling took place on the second Thursday each month and sheep faecal sampling took place on the third Thursday each month, for 12 months. Using a charcoal swab, a recto-anal faecal swab was taken from beef cattle or sheep shortly after slaughter. The swab was placed back in its original container and couriered the same day to ESR at ambient temperature. During times of low *Campylobacter* recovery from the swabs it was necessary to conduct additional sampling with the meat processing plants. Wherever possible, additional swabs were requested in the same month as the low recovery swabs, if this was not possible, additional swabs were requested in the same quarter of the year in order to preserve the seasonality differences of *Campylobacter*.

Figure 4. Source sampling plan



Whole genome sequencing and source attribution analysis

Received isolates were passaged to ensure clonality on Colombia horse blood agar (Fort Richard Laboratories, NZ) in a microaerobic (85% N₂, 10% CO₂, 5% O₂) atmosphere at 42° C in a variable atmosphere incubator (Don Whitley Scientific, UK). DNA was extracted using a QIAamp DNA mini kit (QIAGEN, Germany) following the manufacturer's instructions and sequencing libraries were prepared using a Nextera XT library prep kit (Illumina, USA). Library DNA quantity was checked by Qubit (Invitrogen, USA) quantification before library quality was assayed by Massey Genome Services using a

LabChip analyser (PerkinElmer, USA). Libraries were dispatched by Massey Genome Services to Novagene, China for sequencing via Illumina HiSeq.

Following sequencing, read data were cleaned using Trimmomatic [25]. Draft genomes were assembled using SKESA [26]. Core genome MLST profiles [27] and novel allele sequences were extracted and assigned using the R package 'MLSTar' [28].

Using MLST data, source attribution was performed using the asymmetric Island model via the R package islandR⁵, with three main sources (poultry, cattle, sheep). Covariates for the attribution included location (Auckland, Manawatū-Whanganui) and season with each allowed to vary by rurality, defined using the 2018 geographical classification levels reduced down to an urban/rural binary variable, or using the 2015 designation of a seven level scale from highly rural to highly urban areas.

Assignment of human cases to sources for source-assigned analyses was done by attributing each human case to the most likely source, based on the posterior probability of source given the sequence type with attribution performed without covariates. Human cases were assigned to a source where that source was dominant in at least 2/3 of all posterior samples. Those cases for which the attribution results were mixed (i.e. the dominant source appeared in fewer than 2/3 of samples) were excluded from source-assigned analyses.

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⁵ https://github.com/jmarshallnz/islandR accessed 20 August 2019

RESULTS

Case and Control Recruitment

The number of case interviews completed were 598 in Auckland and 258 in Manawatū-Whanganui, giving a total of 856 interviewed cases (original targets for case interviews: 770 in Auckland, 328 in Manawatū-Whanganui). A total of 1080 clinical isolates were obtained from cases, including those who were not interviewed. The number of cases who were interviewed, and for which a clinical isolate was obtained, was 666 (Auckland 445, Manawatū-Whanganui 221).

As targeted, 600 controls were recruited and interviewed, with an age distribution that matched the age distribution of cases.

Cases

The number of cases registered in the REDCap system and the outcome of attempts to contact and interview cases are summarised in Tables 4 and 5.

Table 4. Cases created, and result of contact attempts, Auckland

Case Interviews ARPHS	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or other reason	Cases interviewed
Total	1076	91 (8%)	165 (15%)	222 (21%)	598 (56%)
Study Tolerance	50%	10%	5%		85%

Table 5. Cases created, and result of contact attempts, Manawatū-Whanganui

Case Interviews MCPHS	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or other reason	Cases interviewed
Total	387	46 (12%)	39 (10%)	44 (12%)	258 (67%)
Study Tolerance	100%	10%	5%		85%

Week by week data on case interviews are given in Appendix H. Quarterly statistics are summarised in Table 6.

Table 6. Summary of cases for Auckland and Manawatū-Whanganui by Quarter

Quarter	Region	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or other reason	Cases interviewed
First	Auckland	193	21 (11%)	18 (9%)	60 (31%)	94 (49%)
(Wks 1–13)	Manawatū- Whanganui	78	12 (15%)	8 (10%)	10 (13%)	48 (62%)
Second	Auckland	193	17 (9%)	37 (19%)	26 (13%)	113 (59%)
(Wks 14– 26)	Manawatū- Whanganui	67	3 (4%)	10 (15%)	6 (9%)	48 (72%)

Quarter	Region	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or other reason	Cases interviewed
Third	Auckland	335	21 (6%)	66 (20%)	50 (15%)	198 (59%)
(Wks 27– 39)	Manawatū- Whanganui	125	5(4%)	15 (12%)	16 (13%)	89 (71%)
Fourth	Auckland	355	32 (9%)	44 (12%)	86 (24%)	193 (54%)
(Wks 40– 52)	Manawatū- Whanganui	117	26 (22%)	5 (4%)	13 (11%)	73 (62%)
Total		1463	137	203	267	856

Wks: weeks

The PHSs were asked to make up to three contact attempts and conduct case interviews within 48 hours after "case creation" (the date and time at which the PHS creates a case record on the EpiSurv system in response to a laboratory notification of a testing result that identifies *Campylobacter* from a case sample). Examination of timing showed that the median time to interview was under 48 hours, except for one week which coincided with a regional holiday, Auckland Anniversary Day.

Reasons for cases not being eligible for interview are summarised in Table 7.

Table 7. Summary of reasons for cases not being eligible for interview

Not eligible category	Auckland	Manawatū- Whanganui	Total
More than one pathogen	1	11	12
Poor or no English	10	0	10
Already reported as acute gastro	0	1	1
Gastroenteritis in preceding month	39	10	49
In cardiology ward		1	1
Long term illness	4	1	5
Overseas during incubation period	108	9	117
Transferred to another DHB	1	1	2
No symptoms	0	1	1
Under 6 months	2	3	5
Total	165	38	203

Clinical isolates

Although non-faecal samples such as blood or cerebro-spinal fluid were not excluded from the study, a blood sample was received for only one case. A faecal sample was also received from this case and *C. jejuni* was recovered from both samples.

Clinical samples received, and isolate recoveries by quarter for both regions are shown in Table 8.

Table 8. Clinical samples and isolate recoveries

Quarter	Clinical samples	Samples received	Isolates not obtained ^a	Isolates obtained
First	Auckland	181	45	136
(Wks 1–13)	Manawatū- Whanganui	61	2	59
Second	Auckland	188	49	139
(Wks 14–26)	Manawatū- Whanganui	63	7	56
Third	Auckland	319	73	246
(Wks 27–39)	Manawatū- Whanganui	116	7	109
Fourth	Auckland	338	110	228
(Wks 40–52)	Manawatū- Whanganui	109	2	107
Total		1375	295	1080

Wks: weeks

Interviews and isolates

Tables 9 and 10 show the results from linking (or otherwise) of isolates with interviewed cases, for the entire study period (Table 9), and by quarter (Table 10).

Table 9. Cases with interview and isolate status; entire study

Region	Cases with interview but no isolate	Cases with isolate but no interview	Cases with no interview or isolate	Cases with both interview and isolate	Total
Auckland	153	304	174	445 (41%)	1076
Manawatū-Whanganui	37	110	19	221 (57%)	387
Total	190	414	193	666 (46%)	1463

^a Reasons for no isolate include; no swab received, no growth from either direct plating or enrichment, or isolate not *Campylobacter*

Table 10. Cases with interview and isolate status; by quarter

Quarter	Region	Cases with interview but no isolate	Cases with isolate but no interview	Cases with no interview or isolate	Cases with both interview and isolate	Total
First	Auckland	21	63	36	73	193
(Wks 1–13)	Manawatū- Whanganui	11	22	8	37	78
Second	Auckland	30	56	24	83	193
(Wks 14–26)	Manawatū- Whanganui	8	16	3	40	67
Third	Auckland	40	88	49	158	335
(Wks 27–39)	Manawatū- Whanganui	12	32	4	77	125
Fourth	Auckland	62	97	65	131	355
(Wks 40–52)	Manawatū- Whanganui	6	40	4	67	117
Total		190	414	193	666	1463

Wks: weeks

The seasonality of cases and the correlation of cases created within REDCap with cases for which an interview plus isolate were obtained are shown in Figure 5 and Figure 6. The lines show good correlation, suggesting that the seasonal risk factor results associated with the isolate plus interview dataset will apply to the full set of notified cases.

The decrease in the number of cases between the peaks in weeks 39 and 44 is an artefact caused by reduced presentation to GPs over the Christmas/New Year holiday period.

Figure 5. Comparison of number of cases created and cases with both an interview and isolate - Auckland

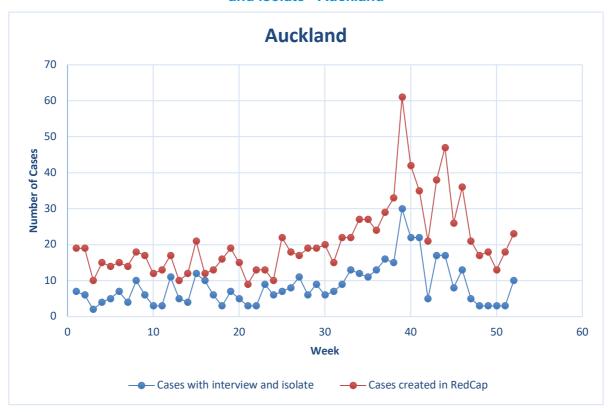
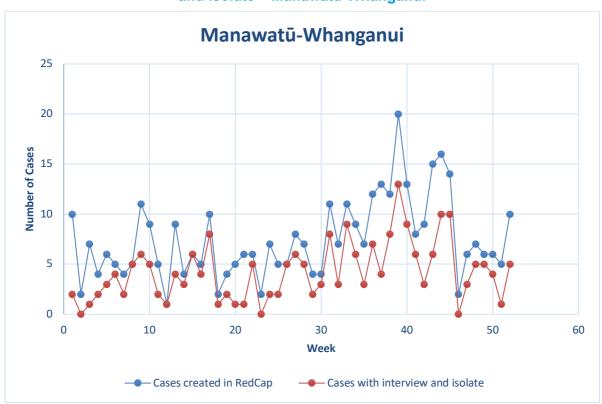


Figure 6. Comparison of number of cases created and cases with both an interview and isolate – Manawatū-Whanganui



Cases: Age Range

The distribution of cases which were interviewed, across age categories, is summarised in Table 11.

Table 11. Age distribution for interviewed cases

Age	6–11	1–4	5–15	16–24	25–44	45–65	65+
	months	years	years	years	years	years	years
Case interviews, number (percent of total interviews)	16 (1.9%)	96 (11.2%)	87 (10.2%)	102 (11.9%)	192 (22.4%)	203 (23.7%)	160 (18.7%)

Controls

Control recruitment and interviews were contracted at 50 per month, and an age distribution, but not a gender balance, was specified. The specified age distribution was based on matching the age distribution for notified cases in Auckland and Manawatū-Whanganui in 2016. The age distribution of cases for March 2018 to March 2019 was similar. Table 12 and Table 13 show the gender and age distributions for controls respectively.

Table 12. Gender distribution for controls

Month	Gend	der	Monthly Total	Manthly towart
MOILLI	Male	Female	Wonting rotal	Monthly target
March 2018	17	33	50	50
April 2018	21	29	50	50
May 2018	22	28	50	50
June 2018	24	26	50	50
July 2018	23	27	50	50
August 2018	27	23	50	50
September 2018	14	36	50	50
October 2018	26	24	50	50
November 2018	21	29	50	50
December 2018	25	25	50	50
January 2019	18	32	50	50
February 2019	20	30	50	50
Total	258	342	600	600

Table 13. Age distribution for controls

Age	6–11 months	1–4 years	5–15 years	16–24 years	25–44 years	45–65 years	65+ years
March	1	4	4	7	13	14	7
April	1	3	4	7	12	15	8
May	1	4	5	7	12	14	7
June	1	4	5	7	12	14	7
July	1	4	6	6	12	13	8
August	1	4	4	8	12	13	8
September	1	4	5	6	12	13	9
October	1	4	5	7	11	13	9
November	1	4	5	7	12	13	8
December	1	5	4	6	13	14	7
January	0	4	5	7	12	13	9
February	0	4	5	5	13	14	9
Total (600)	10 (1.8%)	48 (8%)	57 (10%)	80 (13%)	146 (24%)	163 (27%)	96 (16%)
Target	10 (1.7%)	49 (8.2%)	60 (10.0%)	81 (13.5%)	145 (24.2%)	156 (26%)	98 (16.3%)

Demographics for cases for which an interview and an isolate were obtained, and controls

Table 14 shows the demographic details for cases and controls, while Figure 7 shows the age distribution for male and female cases.

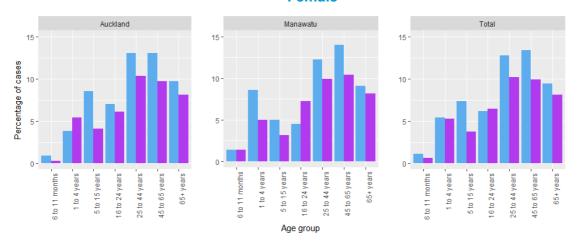
Table 14. Demography for cases for which an interview and an isolate were obtained, and controls

	Auckland			watū- ganui	Total	
	Case Control		Case	Control	Case	Control
	(n = 445)	(n = 451)	(n = 221)	(n = 149)	(n = 666)	(<i>n</i> = 600)
Gender						
Male	249	200	121	58	370	258
	(56%)	(44%)	(55%)	(39%)	(56%)	(43%)
Female	195	251	100	91	295	342
	(44%)	(56%)	(45%)	(61%)	(44%)	(57%)
Age group						

Case (n = 445) Control (n = 451) Case (n = 145) Control (n = 221) Control (n = 145) 6-11 months 5 7 6 2 (1%) (2%) (3%) (1%) 1-4 years 41 36 30 13 (9%) (8%) (14%) (9%) 5-15 years 56 51 18 6 (13%) (11%) (8%) (4%) 16-24 years 59 66 26 14 (13%) (15%) (12%) (9%) 25-44 years 104 124 49 23 (23%) (27%) (22%) (15%) 45-65 years 101 107 54 55 (23%) (24%) (24%) (37%) 65+ years 79 60 38 36	49) (n = 666) (n = 600) 11 9 (2%) (2%) 71 49 () (11%) (8%) 74 57 () (11%) (10%) 85 80
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65+ years 79 60 38 36	155 162
· · · · · · · · · · · · · · · · · · ·	
(400() (400() (400()	117 96
(18%) (13%) (17%) (24%)	(a) (18%) (16%)
Ethnicity*	
New Zealand 335 272 193 121	
European (75%) 60%) (87%) (81%)	(66%) (66%) (66%)
Maori 26 49 21 36	47 85
(6%) (11%) (10%) (24%)	(14%)
Samoan 10 19 3 3	13 22
(2%) (4%) (1%) (2%)) (2%) 4%)
Cook Island Maori 0 12 0 1	0 13
(0%) (3%) (0%) (1%)) (0%) (2%)
Niuean 1 2 0 0	1 2
(0%) (0%) (0%) (0%)) (0%) (0%)
Chinese 33 38 1 1	34 39
(7%) (8%) (0%) (1%)	
Indian 15 43 0 2	15 45
(3%) (10%) (0%) (1%)	
Tongan 2 12 0 1	2 13
(0%) (3%) (0%) (1%)	
Other 63 78 12 7	75 85
*Respondents were able to provide more than one ethnicity so provide more than one ethnic tha) (11%) (14%)

^{*}Respondents were able to provide more than one ethnicity so percentages add to more than 100%

Figure 7: Age distribution of male and female cases for Auckland, Manawatū-Whanganui and Auckland and Manawatū-Whanganui combined. Blue = Male, Purple = Female



Case symptoms and medical treatment

Table 15 shows symptoms and medical treatments by location for cases included in the study.

Table 15. Case symptoms and medical treatments stratified by location

Symptom/treatment	Auckland (%)	Manawatū-Whanganui (%)	Total (%)
Vomiting	130/444 (29.3)	72/221 (32.6)	202/665 (30.4)
Diarrhoea	440/445 (98.9)	219/221 (99.1)	659/666 (99.0)
Fever	303/444 (68.2)	184/221 (83.3)	487/665 (73.2)
Headache	245/444 (55.2)	154/221 (70.0)	399/665 (60.0)
Muscle/body aches	245/441 (55.6)	176/220 (80.0)	421/661 (63.7)
Hospital admission	59/445 (13.3)	36/220 (16.4)	95/665 (14.3)
Antibiotics	159/442 (36.0)	94/217 (43.3)	253/659 (38.4)
	Type of a	ntibiotics	
Cipflox	2/147 (1.4)	0/87 (0.0)	2/234 (0.9)
Ciprofloxacin	28/147 (19.1)	11/87 (12.6)	39/234 (16.7)
Ciproxin	2/147 (1.4)	2/87 (2.3)	4/234 (1.7)
E-Mycin	10/147 (6.8)	6/87 (6.9)	16/234 (6.8)
ERA	1/147 (0.7)	0/87 (0.0)	1/234 (0.4)
Erythromycin	53/147 (36.1)	36/87 (41.4)	89/234 (38.0)
Norfloxacin	3/147 (2.0)	2/87 (2.3)	5/234 (2.1)
Other	48/14 (32.7)7	30/87 (34.5)	78/234 (33.3)

Occupations

Figure 8 shows the occupations for 281 cases, where an ANZSCO level 2 code could be determined (excludes mothers, children, students, unemployed, and cases for which no

information was recorded). The categories shown are those for which \geq 5 cases were allocated.

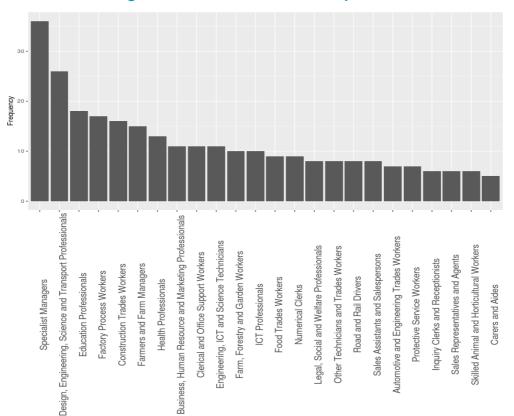


Figure 8. Predominant case occupations

Geographical classification (Urban/Rural)

Table 16 shows the numbers of cases and controls assigned to each of the seven 2015 urban/rural categories using meshblocks.

Table 16. Urban rural assignment for all cases and controls

Category	Cases (% of total) ^a			Controls (% of total) ^a		
	Α	M	Total	Α	M	Total
Main urban area	358 (80)	81 (37)	439 (66)	414 (92)	73 (49)	487 (81)
Satellite urban community	21 (5)	18 (8)	39 (6)	21 (5)	10 (7)	31 (5)
Independent urban community	6 (1)	48 (22)	54 (8)	3 (1)	42 (28)	45 (8)
Rural area with high urban influence	27 (6)	19 (9)	46 (7)	5 (1)	11 (7)	16 (3)
Rural area with moderate urban influence	22 (5)	24 (11)	46 (7)	5 (1)	4 (3)	9 (2)
Rural area with low urban influence	8 (2)	24 (11)	32 (5)	2 (0)	9 (6)	11 (2)
Highly rural/remote area	3 (1)	6 (3)	9 (1)	0 (0)	0 (0)	0 (0)
Area outside urban/rural profile	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Total ^b	445	220	665	450	149	599

A: Auckland, M: Manawatū-Whanganui

Risk factors: Statistically significant risk factors from univariate analyses, complete case and control datasets

A univariate analysis on the entire dataset of 666 cases and 600 controls was performed. The full set of results are given in Appendix I. Table 17 shows the statistically significant (p < 0.05) associations between cases and risk factors.

Variables related to poultry preparation and handling are included as significant risk factors in Table 17. However consuming poultry *per se* did not show a significant association between this variable and being a case or control (Cases 527/664, Controls 491/600, OR 0.92 CI 0.69, 1.24).

^a Due to rounding, percentages may not add to 100 b One case and one control had no meshblock assigned

Table 17. Univariate risk factor analysis, all cases and controls

Question ^a	Cases (N=666)		Controls	s (N=600)	Adjusted Odds Ratio	95% Confidence Interval
	No, number (%)	Yes, number (%)	No, number (%)	Yes, number (%)		
	===(== / (== =)		= (0/000 (00)	00/000 (40)		(4.55.5.5)
Gastric treatment in 4 weeks prior	556/664 (83.7)	101/664 (15.2)	540/600 (90)	60/600 (10)	1.84	(1.29,2.65)
Gastro treatment taken?		20/270 (0.4)		0/000 (4 5)		(4.05.004)
Losec		22/656 (3.4)		9/600 (1.5)	2.91	(1.35,6.81)
Omeprazole		52/656 (7.9)		14/600 (2.3)	4.14	(2.29,7.96)
Chronic Illness?	619/663 (93.4)	36/663 (5.4)	590/600 (98.3)	10/600 (1.7)	3.43	(1.73,7.44)
Type of chronic illness?						
Other		17/663 (2.6)		4/600 (0.7)	3.83	(1.38,13.52)
Contact with someone with gastro symptoms	491/665 (73.8)	90/665 (13.5)	539/600 (89.8)	49/600 (8.2)	1.96	(1.35,2.87)
Close contact with someone with gastro symptoms (i.e. same household)?	519/654 (79.4)	51/654 (7.8)	565/600 (94.2)	23/600 (3.8)	2.28	(1.38,3.87)
Did you eat meat?	37/666 (5.6)	617/666 (92.6)	57/600 (9.5)	543/600 (90.5)	1.75	(1.13,2.75)
Chicken deli?	452/484 (93.4)	30/484 (6.2)	512/531 (96.4)	16/531 (3.0)	2.8	(1.5,5.4)
Did you eat chicken which was pink on the inside?	413/442 (93.4)	29/442 (6.6)	471/482 (97.7)	11/482 (2.3)	3.21	(1.6,6.87)
Did you eat chicken which was brought frozen then thawed?		148/459 (32.2)		104/527 (19.7)	1.76	(1.3,2.37)
Did you eat chicken cook with a		(. ,				
BBQ		37/666 (5.6)		20/600 (3.3)	1.77	(1.02,3.16)
Grill		130/666 (28.1)		56/600 (10.6)	2.99	(2.13,4.24)
Did you eat poultry outside the home?	390/652 (59.8)	262/652 (40.2)	412/600 (68.7)	188/600 (31.3)	1.57	(1.23,2.00)
Did you eat chicken from	(00.0)		, 000 (00)	100,000 (01.0)		(1.20,2.00)
Café/restaurant		92/652 (14.1)		62/600 (10.3)	1.59	(1.12,2.27)
Catered event		8/652 (1.2)		1/600 (0.2)	6.09	(1.08,114.5)
Somewhere else		39/652 (6.0)		14/600 (2.3)	2.67	(1.46,5.19)
Did you cook beef using a grill		85/595 (14.3)		57/598 (9.5)	1.62	(1.14,2.33)
Did you cook lamb using a grill		42/666 (6.3)		19/600 (3.2)	2.12	(1.22,3.79)
Did you eat beef from a social BBQ		16/652 (2.5)		4/600 (0.7)	3.22	(1.16,11.36)
Did you eat pork from somewhere else		16/652 (2.5)		5/600 (0.8)	2.90	(1.11,8.99)
Did you eat a chicken meal/snack with vegetables or fruit prepared		14/666 (2.1)		2/600 (0.3)	5.72	(1.57,36.8)
at Other social occasion (e.g. dinner at friends Did you eat a meat meal/snack with vegetables/fruit prepared at Fast food/takeaway		48/666 (7.2)		20/600 (3.3)	1.85	(1.08,3.28)
Did you eat a vegetarian meal or snack?	187/666 (28.1)	479/666 (71.9)	212/600 (35.3)	388/600 (64.7)	1.43	(1.12,1.82)
Did you eat a vegetarian meal or snack prepared at						
Home		432/666 (64.9)		355/600 (59.2)	1.29	(1.02,1.63)
Fast food/takeaway		33/666 (5.0)		13/600 (2.2)	2.19	(1.16,4.39)
Cafe/restaurant		37/666 (5.6)		19/600 (3.2)	2.02	(1.15,3.67)
Other social occasion (e.g. dinner at friends)		17/666 (2.6)		5/600 (0.8)	2.68	(1.04,8.3)

Question ^a	Cases (N=666)		Controls (N=600)		Adjusted Odds Ratio	95% Confidence Interval
	No, number (%)	Yes, number (%)	No, number (%)	Yes, number (%)		
Somewhere else		38/666 (5.7)		15/600 (2.5)	2.05	(1.11,3.94)
Did you drink raw milk?						
Milk		27/661 (4.1)		10/592 (1.7)	2.11	(1.02,4.69)
Raw meat or poultry handled in household in the last 7 days						
poultry meat		234/666 (35.1)		173/600 (28.8)	1.59	(1.23,2.06)
other meat		211/666 (31.7)		161/600 (26.8)	1.38	(1.07, 1.80)
Someone else handled poultry meat		290/666 (43.5)		202/600 (33.7)	1.43	(1.12,1.83)
Did you handle kitchen items which had contact with raw meats or poultry?	317/662 (47.9)	306/662 (46.2)	389/595 (65.4)	200/595 (33.6)	2.19	(1.7,2.82)
Did you handle the following which had contact with raw meats or						
poultry?						
Knives		294/623 (47.2)		173/589 (29.4)	2.58	(1.99,3.35)
Chopping boards		290/623 (46.6)		177/589 (30.1)	2.41	(1.86,3.14)
Dish cloths		236/623 (37.9)		102/589 (17.3)	3.22	(2.43,4.3)
Do you use separate chopping boards for raw meats that aren't poultry?	317/655 (48.4)	318/655 (48.6)	348/600 (58.0)	249/600 (41.5)	1.43	(1.14,1.81)
Do you use separate chopping boards for all meats?	317/655 (48.4)	318/655 (48.6)	348/600 (58.0)	249/600 (41.5)	1.43	(1.14,1.81)
Do you use separate chopping boards for vegetables?	201/654 (30.7)	434/654 (66.4)	243/600 (40.5)	355/600 (59.2)	1.48	(1.17,1.88)
Do you live or work on a farm or lifestyle block?	492/663 (74.2)	170/663 (25.6)	568/600 (94.7)	32/600 (5.3)	6.16	(4.13,9.45)
Home/work status?						
Don't live or work on a farm		496/664 (74.7)		568/600 (94.7)	Reference (1.0)	
Live on a farm/lifestyle block		123/664 (18.5)		19/600 (3.2)	7.29	(4.49,12.49)
Work on a farm/lifestyle block		16/664 (2.4)		1/600 (0.2)	18.34	(3.65,333.68)
Live and work on a farm/lifestyle block		23/664 (3.5)		11/600 (1.8)	2.52	(1.21,5.55)
Do you work directly with animals?		62/531 (11.7)		17/485 (3.5)	3.71	(2.12,6.81)
Animals you have contact with at home or work						
Dairy		38/662 (5.7)		11/600 (1.8)	2.81	(1.44,5.93)
Meat production		61/662 (9.2)		20/600 (3.3)	2.89	(1.7,5.09)
Poultry		44/662 (6.7)		17/600 (3.3)	2.12	(1.19,3.93)
Other		67/662 (10.1)		17/600 (3.3)	3.70	(2.18,6.6)
Are you in contact with the following dairy cows at home/work?		34/662 (5.1)		9/600 (1.5)	3.02	(1.47,6.86)
Are you in contact with the following meat production animals at home/work?						
Cattle		37/662 (5.6)		11/600 (1.8)	3.09	(1.58, 6.54)
Sheep		38/662 (5.7)		11/600 (1.8)	2.95	(1.5,6.26)
Are you in contact with domestic poultry at home/work?		41/662 (6.2)		16/600 (2.7)	2.13	(1.18,4.01)
Did you have contact with		`				
Chicken		85/666 (12.8)		21/600 (3.5)	3.73	(2.29,6.31)
Cattle		72/666 (10.8)		18/600 (3.0)	3.60	(2.11,6.43)

Question ^a	Cases (N=666)		Controls (N=600)		Adjusted Odds Ratio	95% Confidence Interval
	No, number (%)	Yes, number (%)	No, number (%)	Yes, number (%)		
Sheep		62/666 (9.3)		18/600 (3.0)	3.05	(1.79,5.43)
Did you have contact with pets at home?		341/666 (51.2)		245/600 (40.8)	1.57	(1.25, 1.98)
How long did you have contact with pets?						
>1yr		12/664 (1.8)		4/600 (0.7)	3.00	(1,02.10.95)
Did you have contact with chickens						
At home		64/666 (9.6)		17/600 (2.8)	3.44	(2.01,6.19)
Outside the home		21/666 (3.2)		4/600 (0.7)	3.96	(1.46,13.86)
Did you have contact with cattle						
At home		48/666 (7.2)		10/600 (1.7)	4.24	(2.17,9.12)
Outside the home		26/666 (3.9)		8/600 (1.3)	2.34	(1.07,5.67)
Did you have occupational contact with cattle?	640/665 (96.2)	25/665 (3.8)	593/600 (98.8)	7/600 (1.2)	2.91	(1.28,7.5)
Did you have contact with sheep						
At home		44/666 (6.6)		12/600 (2.0)	3.32	(1.77,6.69)
Outside the home		20/666 (3.0)		6/600 (1.0)	2.41	(1.00,6.75)
Did you have occupational contact with sheep?	646/666 (97.0)	20/666 (3.0)	595/600 (99.2)	5/600 (0.8)	3.09	(1.21,9.48)
Did you have contact with other animals at home		39/666 (5.9)		19/500 (3.2)	2.03	(1.16, 3.66)
Does the water to your home come from						
Private bore/spring water		28/666 (4.2)		7/600 (1.2)	3.33	(1.5,8.46)
Roof/rain water		172/666 (25.8)		43/600 (7.2)	4.44	(3.11,6.44)
Is the private bore water to the home treated or filtered?	643/666 (96.6)	18/666 (2.7)	597/600 (99.5)	3/600 (0.5)	5.13	(1.70,22.22)
Did you drink private bore water to the home which was						
Boiled		1/661 (0.2)		0/600 (0.0)	Undefined	
Treated in another way		15/661 (2.3)		2/600 (0.3)	5.99	(1.65,38.46)
Is the roof/rain water to the home treated or filtered?	537/666 (80.6)	123/666 (18.5)	575/600 (95.8)	22/600 (3.7)	5.85	(3.71,9.62)
Did you drink roof/rain water to the home which was		, ,	, ,			
UV treated		14/660 (2.1)		4/597 (0.7)	3.26	(1.14,11.67)
Filtered		113/660 (17.1)		18/597 (3.0)	6.54	(4,11.3)
Did you drink water from an untreated supply you wouldn't normally in the last 7 days?	573/659 (86.9)	62/659 (9.4)	578/600 (96.3)	20/600 (3.0)	2.98	(1.78,5.19)
Did you drink water from the following untreated supplies you wouldn't normally?						
Roof/rain water		36/642 (5.6)		5/598 (0.8)	6.62	(2.8,19.52)
Did you have contact with compost?	442/657 (67.3)	201/657 (30.6)	503/600 (83.8)	97/600 (16.2)	2.36	(1.77,3.15)

a Odds ratios for questions/risk factors included in this table are statistically significantly greater than one (p < 0.05). The complete risk factor analysis is included in Appendix I

Source isolates

The target for each type of source sample over the study period was 150, evenly spread across the quarters. Due to low rates of isolate recovery, during the third quarter (no reason for this was discovered, sampling and laboratory methods had not changed), additional sampling of cattle and sheep samples was arranged with the meat plants. At the end of the study the target of 150 was exceeded for all source types. Data are shown in Table 18.

Table 18. Source isolate recovery by quarter

Quarter	Source	Samples received	Isolates recovered ^a (%)
First	Poultry	38	33 (87)
(Wks 1–13)	Sheep	45	43 (96)
	Cattle	40	26 (65)
Second	Poultry	58	57 (98)
(Wks 14–26)	Sheep	45	42 (93)
	Cattle	62	44 (71)
The inval	Poultry	53	51 (96)
Third (Wks 27–39)	Sheep	45	30 (67)
(**************************************	Cattle	84	56 (67)
- 0	Poultry	68	64 (94)
Fourth (Wks 40–52)	Sheep	122	78 (64)
(**************************************	Cattle	63	46 (73)

^a Total isolates recovered across the study were poultry (209), sheep (194) and cattle (172)

Clinical and source isolate species

As expected, most isolates from both humans and sources were *C. jejuni* (human: 638/666 (95.8%), beef: 140/172 (81.4%), sheep: 126/194 (64.9%), poultry: 176/209 (84.2%)). The remainder were *C. coli*.

Whole Genome Sequencing (WGS) Results

A total of 695 isolates related to the 666 cases were obtained and sent to Massey. The additional 29 isolates came from 24 cases where the diagnostic laboratories sent duplicate, or in a few instances triplicate samples, from the same case. Usually only the first sample from each case was sent for sequencing. For 11 cases more than one isolate was sequenced, and for 8 of these the strain type was identical for each isolate. For three cases a different isolate was obtained from each sample. For these cases the first isolate obtained was used for analyses.

One isolate went missing between ESR and Massey – hence 665 isolates were available for potential sequencing and strain assignment.

All source isolates reported here were either *C. jejuni* or *C. coli*. An additional 5 isolates were obtained from sheep samples, which were identified as thermophilic *Campylobacter*, but not *C. jejuni* or *C. coli*. These were excluded from the analyses.

Table 19 shows the results from processing of human and source isolates sent to Massey during the course of the study.

Table 19. Whole genome sequencing (WGS) results

Isolate source	Isolate numbers	Sequences obtained	Strain types assigned ^a
Human	665	660	656
Poultry	209	208	206
Sheep	194	190	187
Cattle	172	170	169

^a For some sequences strain type could not be determined, due to missing genes or insufficient read depth

Phylogeny of isolates from human cases and sources

Figure 9 shows a Minimum Spanning tree illustrating the relatedness of all isolates according to core genome multilocus sequence typing (cgMLST using 1343 core genes). The top 10 7 gene MLST types are highlighted: ST45, ST6964, ST53, ST48, ST50, ST583, ST61, ST42, ST190 and ST4337.

Figure 10 shows the same tree topology with each isolate coloured according to source (human, poultry, sheep and cattle).

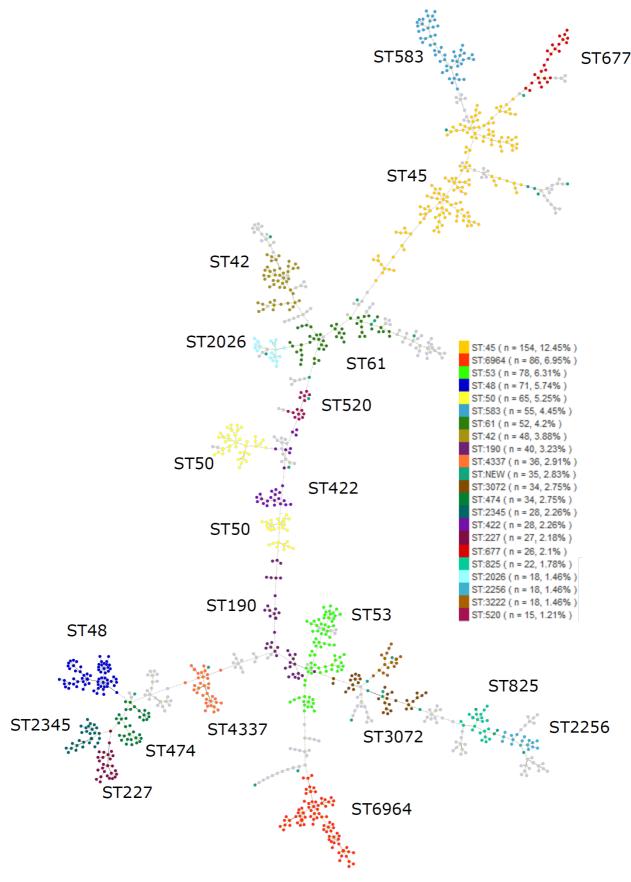


Figure 9. Minimum Spanning Tree showing the relationship between core genome MLST allelic profiles of 1218 *C. jejuni* and *C. coli* isolates. The top ten 7 gene MLST types are shown in colour

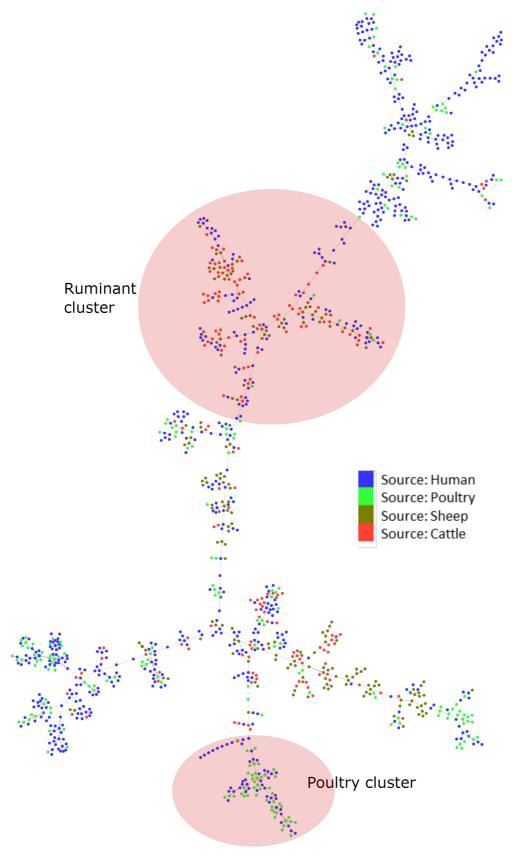


Figure 10. Minimum Spanning Tree showing the relationship between core genome MLST allelic profiles of 1218 *C. jejuni* and *C. coli* isolates. The nodes are coloured according to source

The phylogenetic trees show good concordance between the cgMLST and 7gMLST schemes and illustrate clusters of genotypes associated with particular sources. For example, there are no non-poultry isolates in the ST6964 cluster, whereas there are hardly any poultry isolates in the ST61, 2026 and 42 clusters, which are strongly associated with cattle and sheep.

Table 20 shows the distribution of 7gMLST types by host for STs with 5 or more isolates.

Table 20. Distribution of 7gMLST types by host

Sequence type	Number of isolates by source						
typo	Human	Cattle	Sheep	Poultry	Total		
45	119	2	9	24	154		
48	46	-	-	24	70		
583	42	2	-	8	52		
6964	41	-	-	44	85		
53	40	22	6	11	79		
50	31	7	17	9	64		
677	25	-	-	1	26		
474	24	4	2	4	34		
227	23	-	-	4	27		
190	20	2	12	7	41		
4337	19	3	6	7	35		
2345	18	-	-	10	28		
61	14	17	21	-	52		
486	12	-	-	2	14		
422	11	3	10	4	28		
508	11	1	1	-	13		
42	9	24	16	-	49		
8926	9	-	-	4	13		
21	8	4	-	-	12		
257	8	2	2	2	14		
520	8	4	3	-	15		
2026	8	7	3	-	18		
25	6	-	-	-	6		
38	6	2	-	-	8		
538	6	-	-	-	6		
3538	5	2	2	1	10		

Figure 11 shows the temporal variation in the occurrence of six selected strain types. The predominantly human strain types (ST45, ST583) show patterns of occurrence, which are largely consistent with the pattern of incidence of human campylobacteriosis (Figures 5 and 6). Both ST45 and ST583 belong to clonal complex CC45 and this has previously been identified as highly seasonal in many countries including New Zealand, with the highest rates in summer [19]. There is a notable decline in the occurrence of ST6964 in the latter third of the study.

Spring Summer Spring Sp

Figure 11. Variation of frequency of occurrence of selected *Campylobacter* strain types with season

Geographical classification categories for source assigned cases

Table 21 shows the numbers of source assigned cases in each urban/rural category. Of the 666 cases for which an interview and an isolate were obtained, 656 of the isolates could be assigned to a particular source type.

Month from start of study

Table 21. Urban and rural categories for source assigned cases

Category	Number of cases
Total Urban	526
Main urban areas	434
Satellite urban communities	38
Independent urban communities	54
Total Rural	130
Rural areas with high urban influence	45
Rural areas with moderate urban influence	44
Rural areas with low urban influence	32
Highly rural/remote areas	9
Total	656

Two cases were excluded from the urban/rural analysis, as their meshblock residential location was outside the Auckland or Manawatū-Whanganui areas. It appeared they had been visiting those areas when they became ill, and had visited the GP there. The interviews for these cases were retained for the risk factor analysis.

Source Attribution Modelling

The dataset of poultry, sheep and cattle isolates was used to assign a source for the 656 strains identified from the human isolates.

Table 22 shows the high level attribution for the entire dataset of 656 cases.

Table 22. Source assignment for cases

Source Assignment	Number of human case isolates
Poultry	553
Sheep	0
Cattle	93
Not assigned*	10
Total	656

^{*}Reason for non assignment is a lack of a clear source attribution result in the model

The results shown in Table 22 use the approach described in the Methods; cases were assigned to a source where that source was dominant in at least 2/3 of all posterior samples. The importance of the 2/3 threshold choice was examined through a sensitivity analysis, as shown in Figure 12. This shows that increasing the threshold results in increasing numbers of cases with indeterminate source assignment.

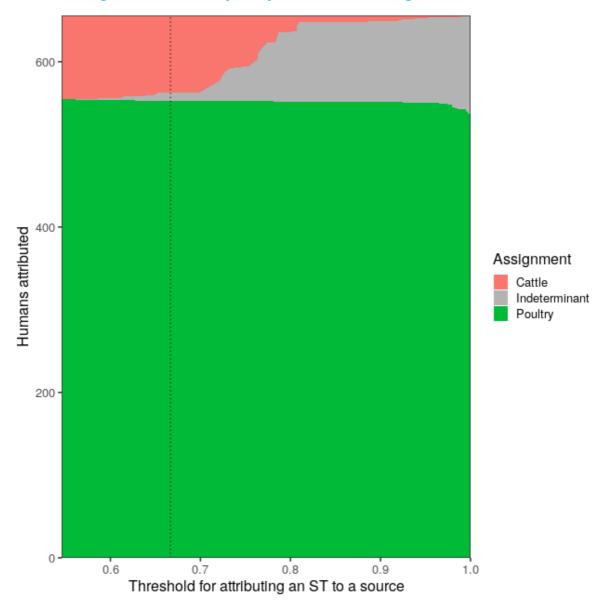


Figure 12: Sensitivity analysis for source assignment threshold

The results of source attribution modelling are presented below, both as overall results, and segmented into Auckland/Manawatū-Whanganui, urban/rural, and seasonal categories. Two additional plots are presented in Appendix J.

The proportion of cases estimated by the asymmetric island model using 7gMLST data show a high attribution to poultry, followed by cattle (Figure 13). The assignment of such a high proportion of cases to poultry, and the lack of overlap for the confidence intervals, gives confidence in this result.

At the individual level no cases are assigned to sheep (Table 22), due to the application of a threshold. However, the source attribution model applied at the population level does attribute a proportion of cases to sheep. It would be implausible to completely discount sheep as a source as the MLST types found in sheep and cattle overlap considerably [29].

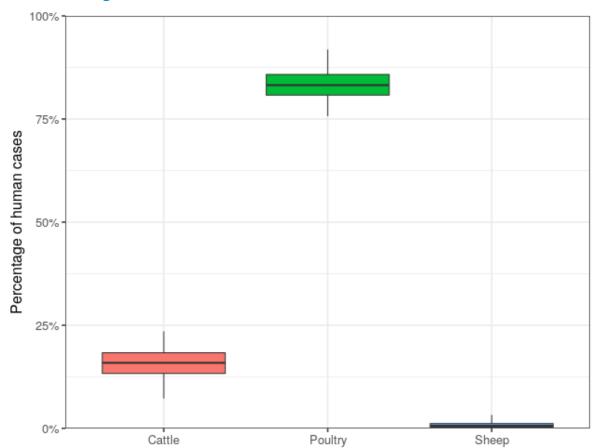
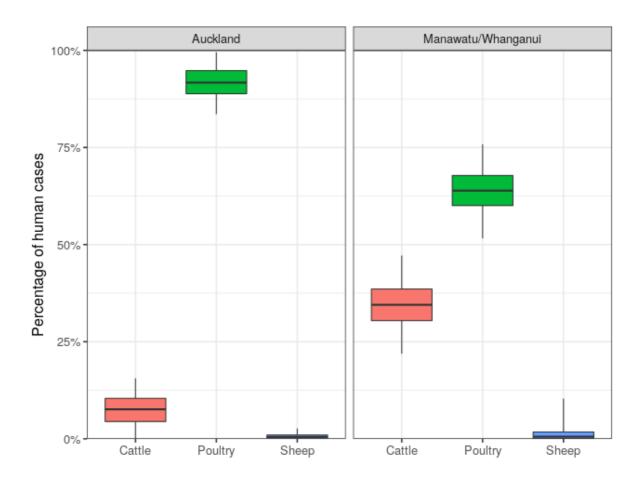


Figure 13. Overall attribution of human cases to each source

Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5th and 97.5th percentiles (i.e. 95% credible interval)

When the cases are stratified by location it is evident that there are a relatively higher proportion of cases attributable to cattle in the Manawatū-Whanganui region compared to Auckland (Figure 14).

Figure 14. Source assignment for cases in Auckland and Manawatū-Whanganui



Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5 th and 97.5 th percentiles (i.e. 95% credible interval)

There are clear seasonal differences in attribution, with a higher proportion of cases attributable to cattle in autumn and winter compared to spring and summer (Figure 15).

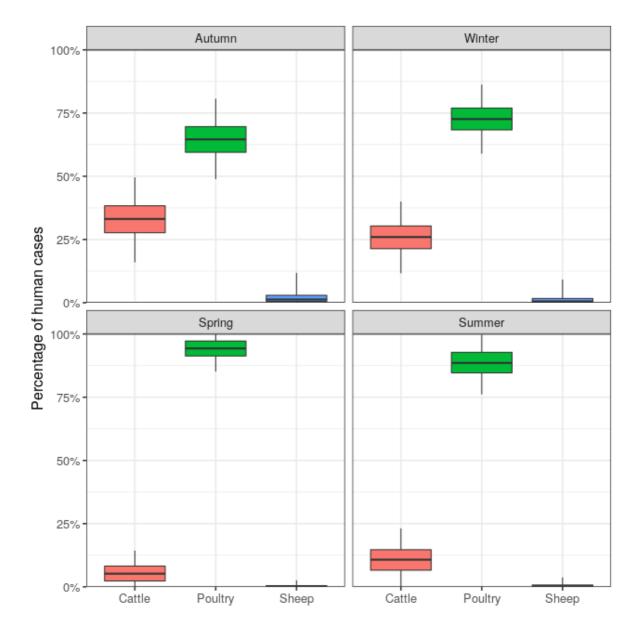


Figure 15. Source assignment by season

Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5th and 97.5th percentiles (i.e. 95% credible interval)

With the aggregated urban and rural areas (Figure 16), the data suggest fewer poultry and more sheep and cattle attributed cases in rural areas compared to urban areas. This difference becomes clearer when urban-rural categories are treated as a seven point scale (Figure 17), where cattle attributed cases increase as rural character increases.

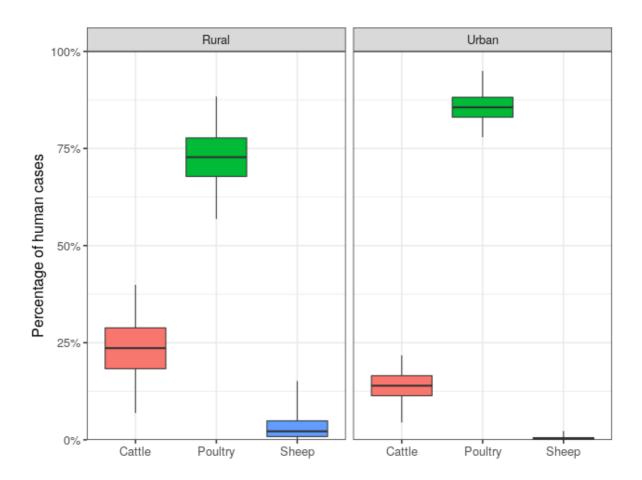


Figure 16. Attribution by urban/rural status (2015)

Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5th and 97.5th percentiles (i.e. 95% credible interval)

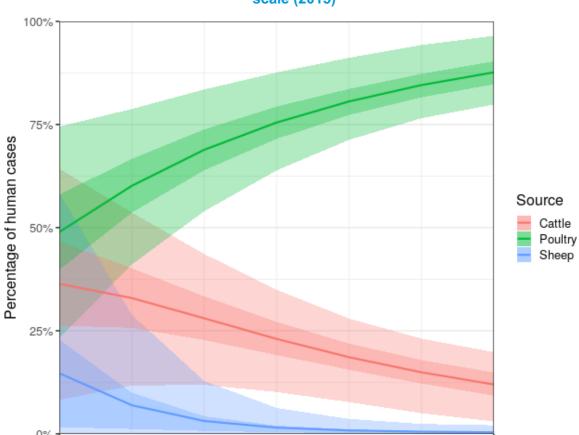


Figure 17. Source assigned cases, modelled attribution according to the rurality scale (2015)

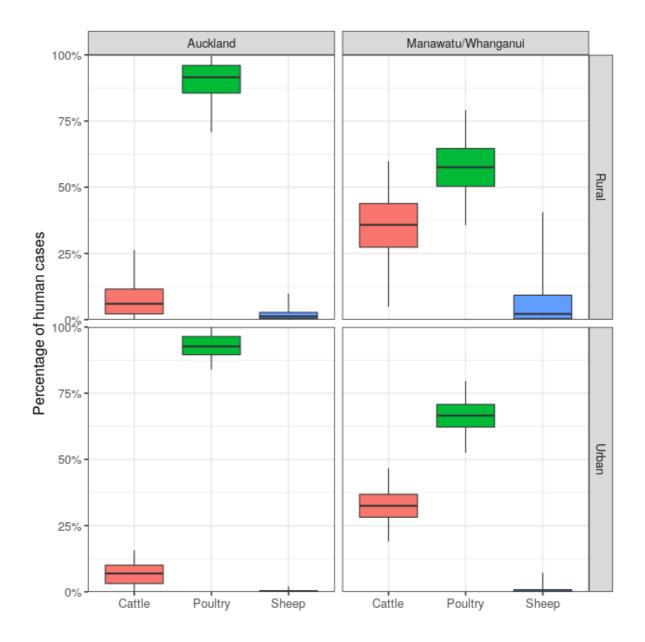
Note: For the line the wider band is 95% credible interval, darker band is 50% credible interval, and line is posterior median

Highly rural

Highly urban

The differences between urban and rural attribution varied according to region (Figure 18) and season (Figure 19).

Figure 18. Source assigned cases, segregated by region and urban/rural (2015)



Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5th and 97.5th percentiles (i.e. 95% credible interval)

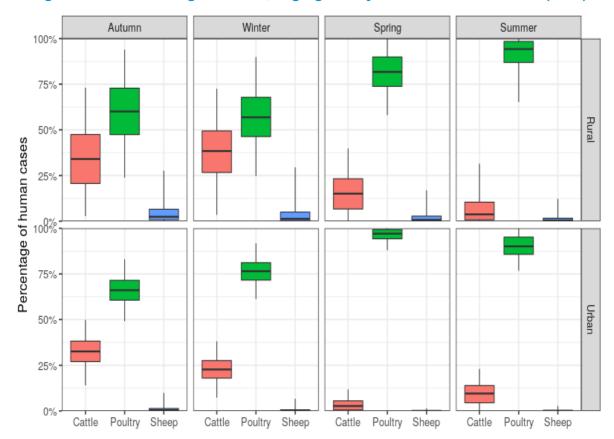


Figure 19. Source assigned cases, segregated by season and urban/rural (2015)

Note: The median is posterior median, quartiles are posterior quartiles, and lower/upper tails are 2.5th and 97.5th percentiles (i.e. 95% credible interval)

Risk factors: Statistically significant risk factors from univariate analyses, partitioned case and control datasets

The univariate analysis was repeated on subsets of cases that were source assigned to poultry or cattle. As most of the human cases were source assigned to poultry the odds ratios were very similar to those for all cases (Table 17) and the data from the poultry analysis are not shown here.

Statistically significant (p < 0.05) elevated risk factors for cattle assigned cases are shown in Table 23.

Table 23. Univariate analysis for cases assigned as cattle source (n=93), risk factors with statistically significant elevated risk

Question ^a	Cases	s (N=93)	Controls	s (N=600)	Adjusted Odds Ratio	95% Confidence Interval
	No, number (%)	Yes, number (%)	No, number (%)	Yes, number (%)		
Gastric treatment in 4 weeks prior	75/92 (81.5)	16/92 (17.4)	540/600 (90.0)	60/600 (10.0)	2.12	(1.08,4.02)
Gastro treatment taken?						
Omeprazole		10/91 (11.0)		14/600 (2.3)	5.13	(1.99, 12.12)
Chronic Illness?	80/91 (88.0)	11/91 (12.1)	590/600 (98.3)	10/600 (1.7)	6.96	(2.71, 18.06)
Type of chronic illness?						
Irritable bowel syndrome		5/93 (5.4)		5/600 (0.8)	5.93	(1.54, 22.80)
Other		4/93 (4.3)		4/600 (0.7)	4.91	(1.04, 23.12)
Did you eat chicken burger?	60/73 (82.2)	11/63 (17.5)	512/531 (96.4)	16/531 (3.0)	2.56	(1.12, 5.52)
Did you eat chicken which was brought						
Frozen then thawed		24/69 (34.8)		104/527 (19.7)	2.11	(1.19, 3.68)
Fast food/takeaway		12/93 (12.9)		20/600 (3.3)	3.06	(1.40, 6.37)
Did you eat/drink raw milk products in the last 7 days?	79/92 (85.9)	11/92 (12.0)	579/600 (96.5)	13/600 (2.2)	5.55	(2.26, 13.43)
Did you drink raw milk		11/92 (12.0)		10/592 (1.7)	7.01	(2.70, 18.44)
Raw meat or poultry handled in household in the last 7 days						
I handled poultry meat		35/93 (37.6)		173/600 (28.8)	1.75	(1.04, 2.94)
Did you handle kitchen items which had contact with raw meats or poultry?	43/91 (47.2)	48/91 (52.7)	389/595 (65.4)	200/595 (33.6)	2.93	(1.75, 5.00)
Did you handle the following which had contact with raw meats or poultry?						
Knives		46/88 (52.3)		173/589 (29.4)	3.46	(2.03,6.02)
Chopping boards		43/88 (48.9)		177/589 (30.1)	2.95	(1.73,5.10)
Dish cloths		34/88 (38.6)		102/589 (17.3)	3.39	(1.99, 5.77)
Plate/dish		41/88 (46.6)		114/589 (19.4)	4.41	(2.61, 7.52)
Do you live or work on a farm or lifestyle block?	55/93 (59.1)	38/93 (40.9)	568/600 (94.7)	32/600 (5.3)	10.80	(5.99, 19.73)
Home/work status?						
Live on a farm/lifestyle block		24/93 (25.8)		19/600 (3.2)	10.91	(5.34, 22.72)
Work on a farm/lifestyle block		5/93 (5.4)		1/600 (0.2)	46.58	(6.88, 926.91)
Live and work on a farm/lifestyle block		8/93 (8.6)		11/600 (1.8)	6.93	(2.45, 19.02)
Animals you have contact with at home or work						
Dairy		13/93 (14.0)		11/600 (1.8)	6.10	(2.47, 15.30)
Meat production		13/93 (14.0)		20/600 (3.3)	3.48	(1.52, 7.77)
Other		16/93 (17.2)		17/600 (3.3)	6.34	(2.93, 13.73)
Are you in contact with dairy cows at home/work?		10/93 (10.8)		9/600 (1.5)	5.42	(1.98, 14.93)

Question ^a	Cases (N=93)		Controls (N=600)		Adjusted Odds Ratio	95% Confidence Interval
	No, number (%)	Yes, number (%)	No, number (%)	Yes, number (%)		
Are you in contact with the following meat production animals at						
home/work?						
Beef		9/93 (9.7)		11/600 (1.8)	4.58	(12.67, 12.33)
Sheep		8/93 (8.6)		11/600 (1.8)	2.89	(1.03, 7.84)
Do you work directly with animals?		18/78 (23.1)		17/485 (3.5)	7.35	(3.35, 16.29)
Did you have contact with						
Chicken		13/93 (14.0)		21/600 (3.5)	3.59	(1.62, 7.73)
Pigs		5/93 (5.4)		6/600 (1.0)	4.27	(1.15, 15.28)
Cattle		24/93 (25.8)		18/600 (3.0)	9.76	(4.65, 21.03)
Sheep		13/93 (14.0)		18/600 (3.0)	4.68	(2.05, 10.53)
Other		11/82 (13.4)		30/600 (5.0)	2.53	(1.14, 5.32)
Were the pets sick?	86/93 (92.5)	7/93 (7.5)	594/600 (99.0)	6/600 (1.0)	4.26	(1.49, 11.35)
Did you have contact with chickens at home		11/93 (11.8)		17/600 (2.8)	3.67	(1.53, 8.47)
Did you have contact with cattle						
At home		15/93 (16.1)		10/600 (1.7)	8.82	(3.57, 22.86)
Outside the home		9/93 (9.7)		8/600 (1.3)	5.86	(2.05, 17.07)
Did you have occupational contact with cattle?	79/93 (84.9)	14/93 (15.0)	593/600 (98.8)	7/600 (1.2)	11.59	(4.37, 33.42)
How long did you have contact with cattle?						
>1vr		6/92 (6.5)		7/589 (1.2)	6.41	(1.89, 21.37)
Did you have contact with sheep				,		,
At home		8/93 (8.6)		12/600 (2.0)	3.83	(1.39, 10.12)
Outside the home		6/93 (6.4)		6/600 (1.0)	6.02	(1.69, 21.49)
Did you have occupational contact with sheep?	84/93 (90.3)	9/93 (9.7)	595/600 (99.2)	5/600 (0.8)	9.24	(2.91, 32.60)
How long did you have contact with sheep?	, , , , , , , , , , , , , , , , , , , ,	,	, , , , , , , , , , , , , , , , , , , ,			
>1yr		7/89 (7.9)		5/587 (0.9)	7.49	(2.20, 27.32)
Did you have contact with other animals at home		8/93 (8.6)		12/600 (2.0)	3.83	(1.39, 10.12)
Does the water to your home come from						(22, 2 ,
Private bore/spring water		10/93 (10.7)		7/600 (1.2)	6.87	(2.38, 20.86)
Roof/rain water		26/93 (28.0)		43/600 (7.2)	4.46	(2.46, 8.01)
Is the private bore water to the home treated or filtered?	86/93 (92.5)	4/93 (4.3)	597/600 (99.5)	3/600 (0.5)	8.44	(1.67, 47.50)
Is the roof/rain water to the home treated or filtered?	75/93 (80.6)	18/93 (19.4)	575/600 (95.8)	22/600 (3.7)	6.39	(3.08,13.22)
Did you drink roof/rain water to the home which was filtered?	()	15/93 (16.1)	(22.0)	18/597 (3.0)	6.93	(3.14, 15.29)
Did you drink water from the following untreated supplies you		(1212)		(212)		(3111, 131 2 3)
wouldn't normally? (work, preschool/school)		0/00 (0.7)		- (-00 (0 0)		(0.00.04.55)
Roof/rain water		6/93 (6.5)		5/598 (0.8)	7.00	(2.03, 24.39)
Did you have contact with compost?	50/91 (54.9)	40/91 (44.0)	503/600 (83.8)	97/600 (16.2)	3.50	(2.11, 5.79)

^a Odds ratios for questions/risk factors included in this table are statistically significantly greater than one (p < 0.05)

Table 24 compares the adjusted odds ratios for cattle associated cases compared to all cases, for variables identified as significant in both the full dataset and the cattle-associated dataset. The cattle-associated adjusted ORs in **red** are at least twice those in the all-case dataset.

Table 24. Comparison of the estimated univariate adjusted odds ratios for cases assigned as cattle source (n=93) compared to all cases.

Question	Adjusted Odds Ratio All cases	95% Confidence Interval	Adjusted Odds Ratio Cattle associated cases	95% Confidence Interval	Ratio of ORs cattle:all cases
Gastric treatment in 4 weeks prior	1.84	(1.29,2.65)	2.12	(1.08,4.02)	1.2
Gastro treatment taken?					
Omeprazole	4.14	(2.29,7.96)	5.13	(1.99, 12.12)	1.2
Chronic Illness?	3.43	(1.73,7.44)	6.96	(2.71, 18.06)	2.0
Type of chronic illness?					
Other	3.83	(1.38,13.52)	4.91	(1.04, 23.12)	1.3
Did you eat chicken which was brought frozen then thawed	1.76	(1.3,2.37)	2.11	(1.19, 3.68)	1.2
Did you drink raw milk	2.11	(1.02,4.69)	7.01	(2.70, 18.44)	3.3
Raw meat or poultry handled in household in the last 7 days					
I handled poultry meat	1.59	(1.23,2.06)	1.75	(1.04,2.94)	1.1
Did you handle kitchen items which had contact with raw meats or poultry? Did you handle the following	2.19	(1.7,2.82)	2.93	(1.75, 5.00)	1.3
which had contact with raw meats or poultry?					
Knives	2.58	(1.99,3.35)	3.46	(2.03,6.02)	1.3
Chopping boards	2.41	(1.86,3.14)	2.95	(1.73,5.10)	1.2
Dish cloths	3.22	(2.43,4.3)	3.39	(1.99, 5.77)	1.1
Do you live or work on a farm or lifestyle block?	6.16	(4.13,9.45)	10.8	(5.99, 19.73)	1.8
Home/work status?					
Don't live or work on a farm	Reference (1.0)				
Live on a farm/lifestyle block	7.29	(4.49,12.49)	10.91	(5.34, 22.72)	1.5
Work on a farm/lifestyle block	18.34	(3.65,333.68)	46.58	(6.88, 926.91)	2.5
Live and work on a farm/lifestyle block	2.52	(1.21,5.55)	6.93	(2.45, 19.02)	2.8
Animals you have contact with at home or work					
Dairy	2.81	(1.44,5.93)	6.1	(2.47, 15.30)	2.2
Meat production	2.89	(1.7,5.09)	3.48	(1.52, 7.77)	1.2
Other	3.7	(2.18,6.6)	6.34	(2.93, 13.73)	1.7
Are you in contact with dairy cows at home/work? Are you in contact with the	3.02	(1.47,6.86)	5.42	(1.98, 14.93)	1.8
following meat production animals at home/work?					

Question	Adjusted Odds Ratio All cases	95% Confidence Interval	Adjusted Odds Ratio Cattle associated cases	95% Confidence Interval	Ratio of ORs cattle:all cases
Beef	3.09	(1.58,6.54)	4.58	(12.67, 12.33)	1.5
Sheep	2.95	(1.5,6.26)	2.89	(1.03, 7.84)	1.0
Did you have contact with					
Chicken	3.73	(2.29,6.31)	3.59	(1.62, 7.73)	1.0
Cattle	3.6	(2.11,6.43)	4.27	(1.15, 15.28)	1.2
Sheep	3.05	(1.79,5.43)	9.76	(4.65, 21.03)	3.2
Did you have contact with chickens at home	3.44	(2.01,6.19)	3.67	(1.53, 8.47)	1.1
Did you have contact with cattle					
At home	4.24	(2.17,9.12)	8.82	(3.57, 22.86)	2.1
Outside the home	2.34	(1.07,5.67)	5.86	(2.05, 17.07)	2.5
Did you have occupational contact with cattle? Did you have contact with	2.91	(1.28,7.5)	11.59	(4.37, 33.42)	4.0
sheep At home	3.32	(1.77,6.69)	3.83	(1.39, 10.12)	1.2
Outside the home	2.41	(1,6.75)	6.02	(1.69, 21.49)	2.5
Did you have occupational contact with sheep?	3.09	(1.21,9.48)	9.24	(2.91, 32.60)	3.0
Does the water to your home come from					
Private bore/spring water	3.33	(1.5,8.46)	6.87	(2.38, 20.86)	2.1
Roof/rain water	4.44	(3.11,6.44)	4.46	(2.46, 8.01)	1.0
Is the private bore water to the home treated or filtered?	5.13	(1.7,22.22)	8.44	(1.67, 47.50)	1.6
Is the roof/rain water to the home treated or filtered?	5.85	(3.71,9.62)	6.39	(3.08,13.22)	1.1
Did you drink roof/rain water to the home which was filtered Did you drink water from the following untreated supplies you wouldn't normally?	6.54	(4,11.3)	6.93	(3.14, 15.29)	1.1
Roof/rain water	6.62	(2.8,19.52)	7	(2.03, 24.39)	1.1
Did you have contact with compost?	2.36	(1.77,3.15)	3.5	(2.11, 5.79)	1.5

Multivariate modelling

Details of the multivariate modelling are included in Appendix F.

A multivariate model focussing on poultry meat consumption, alongside non-food risk factors, was created. The model included factors associated with poultry meat consumption that had significant elevated odds ratios in the univariate analysis. The model was created using data from all source-assigned cases and controls. Table 25 shows risk factors with elevated odds ratios and statistically significant PAF values.

Table 25. Multivariate model focusing on poultry

Risk Factor	AOR	AOR Ratio 95% CI	PAF	PAF 95% CI
Gastro treatment Losec or Omeprazole	2.63	1.27, 5.64	0.06	0.02, 0.14
Chronic illness	4.63	1.35, 17.88	0.06	0.01, 0.23
Contact with a person with gastro symptoms	2.1	1.12, 3.96	0.08	0.01, 0.18
Living or working on a farm	4.93	2.14, 11.84	0.16	0.07, 0.39
Raw milk consumption (urban cases only)	4.81	1.11, 26.29	0.03	0.00, 0.1
Consumed chicken pink on the inside	3.08	1.21, 8.24	0.05	0.01, 0.15
Consumed poultry outside the home	1.91	1.19, 3.06	0.16	0.06, 0.33
Consumed other food such as salads, vegetables or fruit, as part of a meal that did not contain meat	1.56	1.02, 2.39	0.27	0, 0.51
Someone else in the home handled raw poultry meat	2.1	1.36, 3.26	0.27	0.13, 0.47
Handled items in contact with raw poultry or other meat	2.6	1.61, 4.23	0.36	0.18, 0.56
Uses separate chopping boards for foods other than meat	1.72	1.16, 2.58	0.29	0.1, 0.52
Water source not at home (roof/rain water)	5.2	1.21, 28.79	0.03	0, 0.13

AOR: adjusted odds ratio, PAF: population attributable fraction, 95%CI: 95th percentile confidence interval

The importance of non-poultry pathways was explored using the 93 cattle-assigned cases, where non-poultry pathways were likely to be more significant. The results from a multivariate model are shown in Table 26.

Table 26. Multivariate model for 93 cattle assigned cases.

Risk Factor	AOR	AOR 95%CI	PAF	PAF 95%CI
Gastro treatment Losec or Omeprazole	2.97	1.2, 6.87	0.07	0.01, 0.15
Chronic illness	4.08	1.31, 12.41	0.05	0.00, 0.13
Raw milk consumption (rural cases)	0.65	0.11, 3.53	0	-0.01, 0.02
Raw milk consumption (urban cases)	6.63	1.72, 26.17	0.05	0.00, 0.12
Living or working on a farm	7.19	2.95, 18.08	0.25	0.09, 0.52
Contact with compost (revised)	0.96	0.43, 1.97	-0.01	-0.09, 0.14
Physical contact with animals (chickens)	1.05	0.34, 3.04	0	-0.03, 0.09
Physical contact with animals (pigs)	1.23	0.2, 6.55	0	-0.01, 0.07
Physical contact with animals (cattle)	2.34	0.93, 5.03	0.04	0.00, 0.14
Physical contact with animals (sheep)	1.17	0.4, 3.25	0.01	-0.03, 0.07

AOR: adjusted odds ratio, PAF: population attributable fraction, 95%CI: 95th percentile confidence interval

Analysis of questions with textual responses

Manual review of text answers by cases to several questions follows.

Q 18 Brands of raw milk or raw milk products consumed

Of the 23 responses to the question, most reported that the milk was obtained from their own farm, or from personal farm contacts. Only 6 reported a branded product or specific source.

Q 22a Specific illnesses suffered by animals that cases were in contact with

Of the responses to this question, by far the largest number (23) were from cases reporting illnesses of sick pets they had contact with. Almost all of these reported that the pet had diarrhoea or vomiting.

Q 24b Locations where outdoor swimming or other activities took place

Twenty cases reported swimming at specific freshwater locations, of which 4 were lakes, 2 were hot pools and the rest were a variety of rivers, streams, creeks and swimming holes.

Q 25 How/where contact with contaminated materials took place (soil, sand, human poo, manure or compost)

Of these risk factors, contact with compost had statistically significant elevated odds ratio risk in the univariate analysis. However, examination of the textual responses where contact had occurred showed that while about half of the almost 200 cases who reported

contact with compost did report gardening with compost or using animal manure compost, for the remainder the contact was with animal faeces rather than compost. A number of these cases reported contact with dog, cat and bird faeces for the compost question, while for others general contact with livestock faeces on farms was mentioned. This suggests that contact with compost may not be the relevant risk, but an incidental finding related to the risk of contact with animal faeces.

Individual responses for both cases and controls were reviewed, and those likely to be using actual compost were determined. The revised univariate odds ratio was no longer significant: Cases 91/657, Controls 74/600, OR 0.86 (0.61-1.21).

These revised assignments were also used for the multivariate analyses.

DISCUSSION

Data gathering

Rationale for amendments to study protocol during the 12 March 2018 to 11 March 2019 study period

As described in the project plan, for each study case three contact attempts were made. In the first few weeks many of these contact attempts in Auckland were unsuccessful, and anecdotally it was learned that cases would not answer calls from an unrecognised number on their mobile phone. An alternative approach was adopted from May 2018 (Weeks 7–11), where if the first phone call was unsuccessful, the second contact attempt was by text (SMS) explaining who the caller was and requesting a call back. If that was unsuccessful then a third phone call would be made. A 10–20% increase in successful interviews in Auckland was observed following this change. This approach had been used by MCPHS since the start of the study.

During the third quarter of the study it appeared that targets for cattle and sheep source isolates would not be achieved. Additional sampling was requested and conducted at plants supplying these samples. As a result, by the end of the 12 month study period the number of isolates from each source type was greater than the 150 target. Following discussion amongst the three study partners, it was decided to conduct WGS and include all source isolates in the analysis, to maximise the information available.

Study case numbers

The original plan and target for interviewed case numbers was 1058 across both regions. This result was overly optimistic. An allowance had been made for cases that would not fit the case definition (5%), as well as an allowance for cases who declined to be interviewed (10%). However, no allowance had been made for cases who were unable to be contacted, which was 18% of cases by the end of the study. Anecdotally, from reports by interviewers, it appeared that part of this proportion consisted of people who were contacted by cell phone, and who would not answer a call from a number they did not recognise.

The project plan for this study had a target of 600 cases with both an interview and an isolate, based on statistical power calculations. By the end of the 12-month interview and sampling period, 666 such cases had been recruited. Following discussion amongst the three study partners, it was decided to include all 666 cases in the analysis, to maximise the information available.

Withdrawals

Eight interviewed cases asked to be withdrawn from the study after interview.

Each case that was interviewed was sent a follow-up letter thanking them for their participation. In accordance with the Ethics Approval, this letter advised cases that they could still withdraw from the study. From discussions with the cases who contacted the ESR study lead directly, it appeared that they thought that further involvement with the study was necessary. That the interview was the full extent of their engagement could have been reinforced in the thank you letter, but was not.

Seasonality

After approximately 6 months of the study it appeared that the targets for the number of interviewed cases (and cases with both an interview and an isolate, see Figure 1) would not be met. However, during November 2018 to mid-January 2019 there was a greater than

expected increase in the number of notified cases in the Auckland region over this summer period. This boosted the number of interviewed cases considerably.

The principal investigators were concerned that this increase had been due to a particular risk factor or underlying outbreak. The increase prompted staff at Auckland Regional Public Health Services (ARPHS) to investigate, and extended follow-up interviews were conducted with 185 cases (interview records from the SACNZS study were also provided to ARPHS to assist with the investigation). No single risk factor or common source emerged, and it appeared that the increase was due to a hyper-endemic season (Dr Bruce Adlam, ARPHS and ESR Monthly Notifiable Disease Surveillance Report - January 2019). A similar increase was observed also in the neighbouring Waikato District Health Board region, and local investigations there did not identify a common source. For this reason, it was considered that the cases over this period could be included in the study.

Repeats

Two people had two episodes of campylobacteriosis that were included in this study, because they were separate notifications occurring more than a month apart. The sequences for the isolates from these episodes were examined, and for one case, each episode involved a different strain type. For the other case, the sequence for the isolates from each episode were the same – but an as yet unassigned strain type.

Risk Factors

For the univariate analysis on all cases and controls, statistically significantly elevated risk factors included:

- Gastric treatment in 4 weeks prior, specifically with Losec or Omeprazole
- Chronic illness (other, not Crohn's disease, irritable bowel syndrome or ulcerative colitis)
- Contact with a person with gastrointestinal symptoms (particularly close contact)
- Eating meat in general (but eating specific meats, including poultry, were not significant risk factors apart from chicken deli)
- Eating chicken that was pink on the inside
- Eating chicken that was frozen, then thawed, cooked on a BBQ or grill, from fast food or takeaway
- Eating poultry outside the home (at a café restaurant, catered event, or elsewhere)
- Cooking beef with a microwave, or at a social BBQ
- Eating pork outside the home, but only from "somewhere else"
- Eating a vegetarian meal at home or places outside the home
- Drinking raw milk (but not other raw milk products)
- Handling raw poultry or other meat, kitchen items in contact with raw meat or poultry, including knives, chopping boards, dish cloth, plates
- Using separate chopping boards for meat, poultry and other foods
- Living and/or working on a farm or lifestyle block
- Working with animals, including dairy (cows only), meat production (beef, sheep, cattle, goat), poultry
- Contact with animals including cattle, sheep, chickens, domestic chickens, pets. and "other"
- Home water supply from a private bore or rainwater tank, even if treated in some way
- Consumption of water from a rainwater tank, even if not main supply
- Contact with compost.

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⁶ https://surv.esr.cri.nz/surveillance/monthly_surveillance.php?we_objectID=4917 accessed 9 May 2019

All of these elevated risk factors are consistent with the hypotheses listed in the Methods section (apart from the elevated risk for having separate chopping boards).

The use of a separate chopping board for raw meat is advocated as a food safety measure to prevent bacterial cross-contamination [31] and that use of separate chopping boards for various foods emerged as a significant risk factor was unexpected. This may represent complacency for other cross-contamination routes in the kitchen.

Factors showing statistically significant lower risk in the univariate analysis were:

- Consumption of beef or pork, chicken pieces (possibly pre-cooked)
- Consumption of chicken bought cooked, fresh, or frozen, or cooked in a microwave
- Cooking beef at home, or consuming a beefburger
- Eating fresh or frozen beef
- Eating lamb chop, lamb pieces, lamb bought frozen
- Eating pork in various forms
- Eating a chicken or other meat meal with vegetables or fruit that was prepared at home
- Handling pet food
- · Rinsing chicken or other meats before cooking
- Drinking bottled water, or only bottled water
- Being on a town drinking-water supply
- Having contact with sand
- Having a problem with flies in food preparation area
- Usually washing hands when coming in from outside or before consuming food.

Some of these reduced risk factors are at odds with previously published research. Rinsing chicken before cooking has been shown to spread *Campylobacter* contamination in the kitchen [32], while flies have been suggested as a factor for cross-contamination [33]. It should be noted that the assessment of the prevalence of flies in this study was a subjective response on the part of the respondents.

For the poultry source-assigned cases, the statistically significant risk factors, as assessed by significantly elevated odds ratios, were almost identical to those for all cases (Table 17). There was a small increase in the odds ratio for one factor related to chicken consumption (eating chicken at a catered event) and the elevated odds ratio for consumption of raw milk was no longer statistically significant.

For cattle source-assigned cases, the univariate analysis showed elevated odds ratios (compared to the complete case dataset analysis) for factors connected with animal contact: living or working on a farm or lifestyle block, and contact with animals (particularly dairy cows). However, the odds ratio for contact with another sick person was no longer significant, while the odds ratio for consumption of raw milk was higher than that for the full univariate analysis. Risk factors concerning beef consumption as a food did not have statistically significantly elevated odd ratios, which is consistent with New Zealand studies which have found the prevalence and numbers of *Campylobacter* on red meat to be low [34].

Urban/Rural and Location Differences

The pattern of source assignments for urban and rural cases are quite different (Figures 16-19), with about 90% of urban campylobacteriosis cases assigned to poultry sources,

while less than 75% of rural cases were assigned to this source. As shown in Figure 17, the proportion of poultry source-assigned cases increases as the location of the cases becomes more urban. This observation is more pronounced in summer and spring, than in winter and autumn (Figure 21, Appendix J), and for the Auckland region compared to Manawatū-Whanganui (Figure 20, Appendix J).

For rural cases, ruminant source assignment proportions in autumn and winter are similar to the proportion poultry assigned, but in spring and summer poultry sources dominate (Figure 19). While not a major source for either urban or rural populations, sheep-assigned cases were only apparent amongst the rural cases.

As can be seen in Table 16, urban cases and controls dominate the dataset. Univariate odds ratios for risk factors for urban cases were examined separately for Auckland and Manawatū-Whanganui. Interpreting such results needs to be done with caution, due to the smaller case and control numbers, particularly in Manawatū-Whanganui. Many of the significant risk factors were the same for both groups. However, the result for raw milk consumption from this analysis was of interest. The risk was not significant for urban cases in Auckland, but was significant for Manawatū-Whanganui. This partially reflected the proportion of urban raw milk consumers (Auckland 1.1% of cases and 0.7% of controls, Manawatū-Whanganui 10.9% of cases and 1.6% of controls).

Comparison with the MAGIC Study

The previous case-control study of campylobacteriosis in New Zealand is colloquially known as the MAGIC study (Multi-Centre Analysis of Gastroenteritis Induced by *Campylobacter*). This study interviewed primarily urban cases and controls (approximately 85% of subjects were classed as urban) in four centres with high notification rates of campylobacteriosis (Auckland, Hamilton, Wellington and Christchurch) during 1994 and 1995 [9]. The number of cases was 621, matched by the same number of controls.

The strongest associations, as indicated by the largest statistically significant odds ratios, were between campylobacteriosis and undercooked chicken, or consumption of chicken in restaurants. There was no statistically significant association between meats, other than poultry, and campylobacteriosis. Consumption of salads and vegetables appeared to be protective (odds ratios significant less than one). There were no apparent links between food preparation practices in the home and campylobacteriosis.

Amongst the non-food exposures, overseas travel, rainwater as a home water source, and contact with faeces of puppies (in the home) or cattle were associated with campylobacteriosis. Occupational contact with bovine carcasses was also strongly associated with disease.

In the MAGIC study there was no statistically significant association with poultry or chicken consumption in the 10 days prior to illness; it was only "more than one poultry or chicken meal" that was associated. Consumption of raw or uncooked chicken was a strong risk factor; however, it seems remarkable that this type of poultry was consumed by such high numbers of cases (17% in the MAGIC study).

Poultry meals consumed at home were reported by the large majority of cases and controls, and were protective. Both studies also reported statistically significant, elevated risk for poultry meals consumed at a friend's house.

That contact with an ill person was a risk factor was surprising given that campylobacteriosis is generally thought to be infrequently transmitted person to person. However, such contact was reported by only up to 14% of cases. Other risk factors identified in this study (unpasteurised dairy products, overseas travel, non-city water outside of home, rainwater source of home water, handling calf or puppy faeces, ownership

of puppies or caged birds, occupational contact with cattle or cattle/calf carcasses) also appear biologically plausible, but were reported by relatively small numbers of cases and controls.

The risk factors determined by the MAGIC study are consistent with those found in the SACNZS study. In particular, the finding that chicken consumption itself was not associated with illness, but potentially undercooked chicken and chicken consumption outside the home were associated with illness. Also consistent are the links between occupational contact with cattle, and rainwater as a drinking water source, and illness.

Limitations

This study recruited cases and controls from the Auckland and Manawatū-Whanganui regions of New Zealand. All cases were eligible by being notified to the human health notifiable disease surveillance system, while controls were eligible by being members of the NZHS cohort. We attempted to frequency match controls to case by region and age in order to reduce the impact of confounding by these variables. The age distributions were broadly similar in both cases and controls. However, a higher proportion of controls compared to cases was evident in Auckland (67% of case and 75% of controls), and hence a lower proportion of controls compared to cases in Manawatu (33% of cases and 25% of controls). Residual confounding resulting from imperfect matching was considered by adjusting for these variables in multivariate models.

Presentation to general practitioners by cases may have resulted in selection bias; the cases were a particular subset of all cases in the community and therefore unlikely to be representative of all cases in the population. The effect of this bias could not be determined, but when interpreting the risk factors it needs to be borne in mind that these are risk factors for the subset of cases presented to general practitioners. Selection bias may also have been introduced as a result non-participation in the recruitment of both cases and controls, however the proportion of cases refusing to participate was relatively low (8% in Auckland and 12% in Manawatū-Whanganui) and 12% of controls. Efforts were made to minimise the impact of bias by using a standardised approach to interviewing both cases and controls, although the interviews were carried out by different organisations. Analysis of the distribution of controls showed they were broadly representative of the general population in each region. Using the NZHS cohort reduced the likelihood of refusal to participate, but the fact that the cohort comprises the subset of individuals from the, originally randomly-selected, cohort who are willing to participate in future studies may have introduced bias if this is associated with risk factors considered in the study.

Some degree of recall bias in relation to food consumption is inevitable in a study such and this was minimised by using a study design that limited the time from illness to interview to 48 hours or less, and asked questions relating to the recent past (7 days for food consumption). We note that any recall bias is likely to be similar in cases and controls.

Source isolates were obtained from samples provided by meat and poultry plants that were likely to constitute the main supply to the study regions. However, meat and poultry distribution pathways will always be complex within a country and therefore the source samples would not have been fully representative of the food supply in the Auckland and Manawatū-Whanganui regions.

Outcomes

The primary study outcomes were planned to be estimates of the:

 Proportions of human cases of campylobacteriosis that are associated with individual source reservoirs

The source assignment models have provided estimates of the number of study cases that could be assigned to a source (Table 22):

- Poultry 553/656 (84%)
- Sheep 0 (0%)
- Cattle 93/656 (14%)
- Unassigned 10 (2%)

Source assignment modelling does show a small proportion of rural cases whose *Campylobacter* types were associated with sheep, although no individual cases met the conditions for assignment to sheep as a source. Direct contact with sheep, either through work or domestically, does have an elevated odds ratio in the univariate risk factor analysis.

 Proportions of human cases of campylobacteriosis that can be attributed to foodborne and other pathways

Poultry meat has been identified as a significant pathway for campylobacteriosis in New Zealand, and the decline in incidence in 2007-2008 has been linked to interventions in broiler meat production [1]. Poultry is the most commonly consumed meat type in New Zealand [30] and greater than 80% of people involved in the current study as cases or controls had consumed poultry within the previous 7 days. Under these study circumstances, differentiation of poultry consumption between cases and controls as a statistically significant overall risk factor would be less likely to be detected. On the other hand, more specific risk factors associated with consumption of poultry did result in statistically significantly elevated odds ratios e.g. consumption of undercooked chicken, consumption of chicken outside the home. Thus the overall findings examining the source attribution and specific risk factors indicate that poultry meat remains the dominant pathway for exposure and infection.

Direct exposures to poultry birds with significantly elevated odds ratios include: contact with domestic poultry (reported by 6% of cases), contact with chickens (12% of cases) at home (9% of cases) or outside the home (3% of cases). This indicates that while direct contact with poultry presents a significantly elevated risk, it affects only a small proportion of the poultry attributed cases.

Conversely, despite attribution of a proportion of rural cases to cattle, risk factors associated with consumption of beef were rarely significant. A multivariate model using data from only cases attributed to cattle found that animal contact and living or working on a farm/lifestyle block explained a high proportion of these cases.

For these reasons, a multivariate model focusing on poultry meat, alongside non-food risk factors, was created. The model included factors associated with poultry meat consumption that had significant elevated odds ratios.

The model was created using data from all source assigned cases and controls (Table 25). A number of poultry handling factors are significant, which supports the conclusion that poultry meat consumption is responsible for a high proportion of the cases assigned to poultry as a source.

While raw milk consumption was a significant risk factor in the univariate analysis, it was reported in only a small proportion (4.1%) of cases.

 Proportions of human cases of campylobacteriosis that can be attributed to individual exposures

The importance of non-poultry pathways was explored using the 93 cattle assigned cases, where these other pathways were expected to be significant (Table 26). These results indicate that living or working on a farm is the highest significant risk for these cases. Contact with cattle is also significant, and is likely to be correlated with living or working on a farm. Exposure to compost, using the revised assignments is not significant.

Raw milk consumption is only significant for urban cases. This result appears to be mostly linked to urban cases in Manawatū-Whanganui.

Although raw milk consumption is generally low, raw milk consumers were significantly over represented in urban cases compared to the urban controls. This is biologically plausible as it may reflect immunity to cattle-associated *Campylobacter* in rural areas due to continuous exposure through other pathways. Conversely, a lack of continuous exposure is likely for urban dwellers, which would result in comparative immunological naivety.

Risk factor values (e.g. odds ratio estimates) for human campylobacteriosis

The odds ratio estimates for the all cases (Table 17), and cattle assigned cases (Table 23) have been presented, while those for poultry assigned cases were almost identical to those for all cases.

The following is a summary of the risk factor calculation results.

- Living and/or working on a farm, and direct animal contact are significant exposure pathways, particularly for cattle-associated cases. This includes exposure to chickens.
- Raw milk consumption is a significant risk factor for urban cattle associated cases
- Eating chicken outside the home is a significant risk factor for illness. There are many possible reasons for this, and the result is consistent with the previous case-control study [9].
- Although chicken consumption is not significant, there is elevated risk from a number of risk factors associated with poultry handling and preparation in the home.
- Eating a vegetarian meal is a significant risk factor, possibly because it contains uncooked foods.
- Rainwater/roof tank as a water source, either in the home or elsewhere, is a risk factor for campyloabcteriosis.
- The use of proton pump inhibitors as a medication is a significant risk factor for infection.
- Contact with another person with gastrointestinal symptoms, particularly
 close contact, is a risk factor. While this may be due to both the case and
 the ill contact person being exposed to the same risk factor, it should be
 noted that this question related to contact with a person with gastrointestinal
 symptoms before the case became ill.
- Exposure to compost was a risk for infection in the initial univariate analysis, but after selection of actual compost exposures, this was no longer significant.

APPENDIX A: CASE QUESTIONNAIRE

Source attribution of campylobacteriosis in New Zealand study (SACNZS) – Case questionnaire

Case Details

Record ID	
CaseReportGuid	
EpiSurv Number	
First Name	
Last Name	
NHI	
DOB	
Age	
Sex	
Observation Results	



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Sacnzs Case Questionnaire

SOURCE ATTRIBUTION OF CAMPYLOBACTERIOSIS IN NEW ZEALAND STUDY (SACNZS) - CASE QUESTIONNAIRE

During the reading of this interview, bold typeface represents information or questions to be relayed to the interviewee, while text in italics represents supporting information for the interviewer.

CASE DETAILS	
Name: [first_name] [last_name]	
NHI: [nhi]	
Date of Birth: [dob]	
Age: [age]	
Sex: [sex]	
Laboratory Result: [obx]	
Home Phone	
Tiome Filone	
Phone (work)	
Phone (other)	

Kia ora

We are contacting you as part of the follow up of confirmed cases of Campylobacter infection conducted by Public Health Services in New Zealand. You were recently diagnosed with gasteroenteritis caused by this infection. The normal follow up involves asking a series of questions to help us understand this disease.

Campylobacteriosis is an illness caused by a bacteria. In New Zealand, every year, an estimated 60,000 people get this infection. The Ministry for Primary Industries is currently conducting a research survey about Campylobacter infections in New Zealand. The Ministry of Health supports this research survey.

As part of this research survey, we would like to ask some questions that are in addition to the normal follow-up questions, or are more detailed versions of them. This will take about an additional ten minutes, compared to the normal follow-up interview.

Your interview record from the research questionnaire will be available to the Public Health Service, to help possible public health response during the study, but be kept confidential by them. Information from your interview record provided to the study researchers will not be identifiable and will be saved in an anonymous format.

Your input is important as it will help to determine how this potentially very serious illness is contracted and what can be done to prevent it.

If you would prefer to only answer the questions we would ask as part of the normal follow up, you are free to say so.

REDCap

NOTES FOR INTERVIEWER

If case is aged less than 16 years you will need to decide if the child is competent to give consent and to be interviewed directly. This can be done by asking the parental or guardian prior to the interview. If they do not judge the child competent, then parental or guardian consent will be required and the parent or guardian most familiar with the eating and other habits of the child can then answer on behalf of the case.

If the interview is conducted with a parent or guardian, questions relate to the case, not the person being interviewed unless specified in the body of the questionnaire.

Kia ora

We are contacting you as part of the follow up of confirmed cases of Campylobacter infection conducted by Public Health Services in New Zealand. The normal follow up involves asking a series of questions to help us understand this disease.

Campylobacteriosis is an illness caused by a bacteria. In New Zealand, every year, an estimated 60,000 people get this infection. The Ministry for Primary Industries is currently conducting a research survey about Campylobacter infections in New Zealand. The Ministry of Health supports this research survey.

Recently a person in your household under the age of 16 was sick with gastroenteritis caused by Campylobacter. As part of this research survey, we would like to ask that person some questions that are in addition to the normal follow-up questions, or are more detailed versions of them. This will take about an additional ten minutes, compared to the normal follow-up interview.

Because the sick person is under the age of 16 we need to ask you whether you consider that person is capable of understanding the nature of the research survey and answering the questions for themselves, or whether you consider you would need to do this for them.

The interview record from the research questionnaire will be available to the Public Health Service, to help possible public health response during the study, but be kept confidential by them. Information from the interview record provided to the study researchers will not be identifiable and will be saved in an anonymous format.

The input is important as it will help to determine how this potentially very serious illness is contracted and what can be done to prevent it. If you or the sick person would prefer to only answer the questions we would ask as part of the normal follow up, they are free to say so.

Do you think that the	○ Yes ○ No
sick person would	
be able	
to	
understand the	
nature	
of this	
survey and	
to	
answer	
the questions	
for	
themselves?	



Kia ora

We are contacting you as part of the follow up of confirmed cases of Campylobacter infection conducted by Public Health Services in New Zealand. You were recently diagnosed with gasteroenteritis caused by this infection. The normal follow up involves asking a series of guestions to help us understand this disease.

Campylobacteriosis is an illness caused by a bacteria. In New Zealand, every year, an estimated 60,000 people get this infection. The Ministry for Primary Industries is currently conducting a research survey about Campylobacter infections in New Zealand. The Ministry of Health supports this research survey.

As part of this research survey, we would like to ask some questions that are in addition to the normal follow-up questions, or are more detailed versions of them. This will take about an additional ten minutes, compared to the normal follow-up interview.

Your interview record from the research questionnaire will be available to the Public Health Service, to help possible public health response during the study, but be kept confidential by them. Information from your interview record provided to the study researchers will not be identifiable and will be saved in an anonymous format.

Your input is important as it will help to determine how this potentially very serious illness is contracted and what can be done to prevent it.

If you would prefer to only answer the questions we would ask as part of the normal follow up, you are free to say so.

Kia ora

We are contacting you because you were sick recently and visited the doctor. The laboratory was able to identify the cause of your sickness, and told us, because we are responsible for finding out more about cases like yours, so we can prevent more cases happening in the future.

Normally with cases like yours we ask a series of questions to help us understand the illness you had.

To try and understand the causes of the illness better we are doing a research study into the illness. Part of the study involves asking cases some questions that are in addition to the normal follow-up questions, or are more detailed versions of them. This will take about 20-25 minutes, about ten minutes more than the normal questions we ask.

We have already asked your [parent or quardian] for permission to ask you questions for the research survey.

If you don't know the answers to questions, or can't remember, you should feel free to say so. Also, you can stop the interview at any time.

Your answers will be kept confidential to us and the people doing the research.

Your help is important as it will us find out how people get this illness and what can be done to prevent it.



In that case, are you familiar with their diet and activities, and able to answer questions on their t	
behalf? Do you give consent for us to use your answers to the research questionnaire as part of the national survey?	 Yes, continue to informed consent No, complete Episurv questionnaire

INFORMED CONSENT

Before we start, would you like to ask any questions?

Declaration by member of research team:



I have given a verbal explanation of the research project to the participant, and have answered the participant's questions about it.	○ Yes ○ No
l believe that the participant understands the study and has given informed consent to participate.	
Researcher's/Interviewers name:	
Date	

ELIGIBILITY QUESTIONS

Cases

These questions seek to establish whether the case has had recent gastroenteritis, other than that related to the diagnosis of campylobacteriosis. If so, they are ineligible for inclusion in the study and the interview will conclude.

A laboratory test found Campylobacter, a bacteria that causes food poisoning, in a sample provided by you to your doctor. Gastroenteritis (commonly known as food poisoning), can cause symptoms such as diarrhoea (runny poo), vomiting (throwing up), or stomach pains.



2. In the month before you got sick with Campylobacter, did you/your child experience diarrhoea, vomiting, or stomach pains?	Yes No (If yes is answered, then the interviewee is not eligible and you can simply complete the EpiSurv form or send out usual letter/questionnaire and offer usual public health advice.)
The following questions allow us to examine whether	r certain types of people are more likely
to get campylobacteriosis.	
3. What is your/your child's gender?	MaleFemaleOther
4. What is your/your child's date of birth?	(Interviewer note: Date of birth preferred but if only age available record that in next question)

If not willing to give date of birth request age



Age	
	(Interviewer note
	: Please enter a number.
	If refuse to answer (Go to 4a))
4a. If you are unwilling to give	Yes No
your/your child's age, would you be willing to indicate	
which of the following age groups the age is in?	
Age group	 0 to 5 months 6 to 11 months 1 year 2 to 4 years 5 to 17 years 18 to 44 years 45 to 74 years 75 + and over Unwilling to answer
5. Which ethnic group do you/your child identify with? (You can select more than one group)	 New Zealand European Maori Samoan Cook Island Maori Niuean Chinese Indian Tongan Other
Specify 'other' ethnicity	



6. Do you live or work on a farm, lifestyle block or other premises that has farm (non-pet) animals?	○ Yes ○ No ○ Don't know
	 Yes I live on a farm/lifestyle block Yes I work on a farm/lifestyle block/premises Yes I live on a farm/lifestyle block AND I work on a farm/lifestyle block Yes I work at another premises that has animals
Please specify the premises	
6a. If yes, please specify type of animals at the types of farm/lifestyle block/premises you live or work on:	☐ dairy ☐ meat production ☐ poultry ☐ other
Select dairy animals	☐ cow ☐ goat ☐ sheep
Select meat production	☐ beef ☐ sheep ☐ pig ☐ cattle ☐ goat ☐ deer
Select poultry	 □ domestic poultry (home use only) □ commercial poultry □ poultry processing □ other poultry
Please specify other poultry	
Specify other type of animals	



When (you/your child (always most of the time only if visibly dirty occasionally never
------------------------	--

For adult participants only. For children go to 8.

The study is particularly interested in occupations that involve animal, food, environmental or healthcare contact. Occupations of this sort should be probed for a more specific description. For example, 'poultry processor', rather than just 'food processor' or 'factory worker'. Note that the participant may have more than 1 job. The participant may be a student, note this as occupation.

7a. What is your occupation?



 ○ 16 Month Old Child Job title 1 ○ A.I. Technician Abattoir Worker Aboriginal and Torres Strait Islander Education Aboriginal and Torres Strait Islander Health Worker O Abrasive Blaster ○ Absailer ○ Abseiler ACC Justice Centre ACC Justice Centre Accommodation and Hospitality Managers nec Accommodation Manager - Boarding House Accountant Accountant (General) Accountants, Auditors and Company Secretaries Accounting Clerk Accounting Clerks Accounting Clerks and Bookkeepers Accounts Accounts Administrator Accounts Administrator Accounts Administrator Accounts Clerk Accounts Manager Accounts Payable Administrator Actor Actors, Dancers and Other Entertainers O Actors, Dancers and Other Entertainers nec Actuaries, Mathematicians and Statisticians Actuary Actuary And Consultant Acupuncturist Admin Manager Admin Worker Administration Administration Manager Administration Manager Administrative Officer Administrator Administrator Administrator Administrator Gisborne Tatapouri Fishing Club Administrator.Owner Of Restaurant. Admissions Clerk Advertising O Advertising Agency Director Advertising and Marketing Professionals Advertising and Public Relations Manager Advertising and Sales Manager Advertising Manager Advertising Specialist Advertising, Public Relations and Sales Managers ○ Advisor Aeronautical Engineer ○ Aeroplane Pilot After School Care Aged and Disabled Carers Aged Care Worker Aged or Disabled Carer Agency Nurse Agri Business Consultant Agricultural and Forestry Scientists Agricultural and Horticultural Mobile Plant Operator Agricultural Chemical Consultant Agricultural Consultant Agricultural Contracting



Agricultural Engineer

் Agricultur அணு நடித் ectred cap.org

	Agricultural Scientist
	Agricultural Sprayer
	Agricultural Technician
	Agricultural Technicians
	Agricultural Worker
\circ	Agricultural, Forestry and Horticultural Plant
	Operators
	Agricultural, Medical and Science Technicians
	Agriculture Advisor
	Agriculture Research
	Agronomist
_	Aid Worker
	Aid worker Carpenter
	Air and Marine Transport Professionals Air Assistant
	Air Compressor Technician
	Air Compressor recrimician Air COnditioning / Mechanic
	Air Steward
	Air Stewardess
	Air Traffic Control Instructor
	Air Traffic Controller
	Air Traffic Controller
	Air Transport Professionals
	Air Transport Professionals nec
	Airconditioning and Mechanical Services Plumber
	Airconditioning and Refrigeration Mechanic
Ō	Airconditioning and Refrigeration Mechanics
\circ	Aircraft Baggage Handler and Airline Ground Crew
	Aircraft Engineer
	Aircraft Maintenance Engineer (Avionics)
	Aircraft Maintenance Engineer (Mechanical)
	Aircraft Maintenance Engineer (Structures)
	Aircraft Maintenance Engineers
	Aircraft Refueller Aircraft Technician
	Airline Manager
	Airme Manager Airport Staff
\sim	Alarm, Security or Surveillance Monitor
$\tilde{\circ}$	Aluminium Joiner
	Ambulance Driver
Ŏ	Ambulance Officer
\circ	Ambulance Officers and Paramedics
\circ	Ambulance Paramedic
	Amusement Centre Manager
	Amusement, Fitness and Sports Centre Managers
	Anaesthetic Technician
	Anaesthetist
	Anaesthetist
	Anaesthetists Analyst
	Analyst Programmer
	Anatomist or Physiologist
	Anesthesiologist
	Anesthetic Tech Niurse
	Animal Attendants and Trainers
	Animal Attendants and Trainers nec
Ŏ	Animal Attendants and Trainers, and Shearers
	Animal Carer
_	Animal Control
_	Animator
	Antique Dealer
	ANZ Bank
	Apiarist
\supset	Apple Packer
\simeq	Apple Packer Apple Picker
	Apple Ficker Apple Thinner
	Applicance Works
	Apprentice Builder
	Apprentice Butcher
	Apprentice Carpenter

Apprentice Electrician
Apprentice Motor Mechanic
Apprentice Panelbeater
O Apprentice Plumber
Apprentice Welder
Aquaculture Farmer
Aquaculture Farmers
Aquaculture Worker
Aquaculture Worker
Aquatic Engineer
Arborist
○ Archaeologist
Architect
Architects and Landscape Architects
Architects, Designers, Planners and Surveyors
Architectural Draftsperson
Architectural, Building and Surveying Technicians
 Architectural, Building and Surveying Technicians nec
↑ Archivist
•
Archivists, Curators and Records ManagersArmed Forces
Armoured Car Escort
Army
Army Corporal
Army Personnel
Art Director (Film, Television or Stage)
Art Teacher (Private Tuition)
Artist
Artist/Photographer
Artistic Director
Artistic Directors, and Media Producers and
Presenters
Arts Administrator or Manager
Arts and Media Professionals
Arts Professionals
Asbestos Labourer
Assembles Agriculture Machinery
○ Asset Manager
○ ASSISTANT ACCOUNTANT
Assistant Manager
Assistant Manager
Assistant Principal
Assistant Teacher
○ At home
oat Home Educarer
At home looking after children
At Home Mother
At home not looking after children
Attendance Officer
Attending Early Childhood Centre
Attending ECC
Attends ESOL Classes
Austinger
AuctioneerAuctioneers, and Stock and Station Agents
Audiologist
Audiologists Audiologists and Speech Pathologists/Therapists
Audiovisual Technison
Auditor
Auditor
Auditors, Company Secretaries and Corporate
Treasurers
○ Author
Authors, and Book and Script Editors
Auto Dismantler
Auto Technician
○ Autoglazier
Automobile Drivers
Automobile Drivers nec
Automobile, Bus and Rail Drivers

Automotive and Engineering Trades Workers
Automotive Electrician
Automotive Electricians
 Automotive Electricians and Mechanics
 Automotive Parts Salesperson
 Automotive Technician
○ AV Installer
○ Aviation
Avionics Technician
Avocado Orchadist
Baby
Backer
Backhoe Operator
O Baker
BakerBakers and Pastrycooks
Bakery Assistant
○ Bakery Manager
O Bakery Staff
Baking Factory Worker
Banardos In House Child Minder
Bank Call Centre Worker
◯ Bank Clerk
 Bank Employee And Student (Finance)
○ Bank Manager
Bank Manager
Bank Officer
Bank Teller
Bank Worker
O Bank Workers
Banker
Banking Call Centre Worker
Bar Attendant
Bar Attendants and Baristas
Bar Manager
Bar Useful or Busser
Barber
Barista
Barrister
Barristers
Bartender Basyty Therapiet
Beauty Therapist
Beauty Therapists
Bed and Breakfast Operator
O Bed Maker
O Bee Keeper
Beef Cattle Farm Worker
Beef Cattle Farmer
○ Beekeeper
Beer Tap Installer
Beetham Rest Home Manager
Behaviour Support Specialist
○ Beneficiary
Berry Farmer
Betting Agency Counter Clerk
Betting Agency Manager
Betting Clerks
Betting Clerks nec
Bicycle Mechanic
Riinder
○ Biinder○ Binder
Binder and Finisher
Bio Medical Technician
Biochemist
Biologist (General) Riemodical Engineer
Biomedical Engineer Biography Officer
Biosecurity Officer
Biotechnologist
Bird Handler
Blacksmith
Boarding Kennel or Cattery Operator
○ Boat Builder

O Boat builder and Kebairer
Boat Builders and Shipwrights
○ Boat Skipper
O Boat Worker
O Body Artist
Boiler Assistant
Boiler or Engine Operator
○ Boilermaker
O Bomb Disposal Person
O Bone Meal Worker
O Bone Meat Worker
Book or Script Editor
○ Bookkeeper
Bookkeepers
O Bookmaker
O Bookmaker's Clerk
Bookshop Manager
○ Bookshop Owner
O Bookshop Sales Assistant
O Botanist
OBouncer
○ Branch Manager
O Branch Manager
Branch Manager (ACC)
Brewery Worker
○ Bricklayer
○ Bricklayer
Bricklayers and Stonemasons
O Broadcast Transmitter Operator
O Builder
Builder
OBuilder
○ Builder
Builder (self Employed)
Builder And Motorhome Maintenance
Builder Apprentice Builder Apprentice
Builder Apprentice
O Builder's Labourer
Builder/Hammerhand
O Builder/Hamnerhand
Building and Engineering Technicians
 Building and Engineering Technicians nec
 Building and Plumbing Labourers
Building Associate
O Building Control Officer
Building Designer
O Building Inspector
Building Insulation Installer
Building Supervisor
Bulk Materials Handling Plant Operator
Bulldozer Operator
Bungy Jump Master
Bus and Coach Drivers
O Bus Driver
Business
Business Administration Manager
Business Analyst
 Business and Systems Analysts, and Programmers
O Business Broker
Business Coach
<u> </u>
Business Consultant
Business Consultant
Business Director
Business Intelligence Consultant
Business Machine Mechanic
Business Manager
Business Owner
Business Owner-Takeaway
Business Professional
Business, Human Resource and Marketing Professional
Businessman
○ Butcher
() BUICHER

(Dutcher Appropries
	Butcher Apprentice
	Butcher or Smallgoods Maker
(Butchery Assistant
(Cabinetmaker
	Cabinetmakers
7	Cabler (Data and Telecommunications)
	Caf? Worker
	Cafe and Restaurant Managers
(Cafe Manager
(Cafe or Restaurant Manager
	Cafe Owner
	Cafe Worker
(Cale Worker
	Cafe Workers
(Calf Rearer
(Call or Contact Centre and Customer Service
	Managers
(Call or Contact Centre Information Clerks
	Call or Contact Centre Manager
	Call or Contact Centre Operator
(Call or Contact Centre Team Leader
	Call or Contact Centre Workers
(Camera Operator (Film, Television or Video)
(Camper
(Canning Operator
Ć	Canvas and Leather Goods Makers
(Canvas Goods Maker
	Car Dealer
	Car Detailer
(Car Detailers
(Car Groomer
	Car groomer
	Car Painter
(Car Paintei
(○ Car Park Attendant
(Car Parts Salesperson
/	ā
(() Caravan Park and Camping Ground Manager
	Caravan Park and Camping Ground Manager
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() () () ()	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Casino Worker
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver Caregiver/Cleaner Caregiver/Cleaner Caretaker Caretaker Caretakers Carpenter Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Carbaner Carbaner Carbaner Carbaner Carbaner Carbaner Carbaner Cartographer Cartographer Cartographer Carton Maker Case Worker Cash Van Salesperson Cashier Casino Worker Castings Processor
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver (Rest Home) Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Caron Manager Cartographer Cartographer Case Worker Case Worker Cash Van Salesperson Casino Worker Castings Processor Casual Worker
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Carers and Aides Caretaker Caretaker Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Carpet Crapet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Caretaker Caretaker Caretakers Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder Categories Manager
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Carers and Aides Caretaker Caretaker Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Carpet Crapet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder

Catering Student
○ Cattle Farmer
○ ceiling Installer
○ Celebrant
 Cement and Concrete Plant Worker
Cement Production Plant Operator
○ CEO
○ Ceramicist
○ Chaplain
○ Charge Nurse
Charity Administrator
Charter and Tour Bus Driver
Chartered Director / Consultant
Chauffeur
Checkout Operator
Checkout Operators and Office Cashiers
Checkout Operators and Office Cashiers
Checkout Supervisor
○ Chef
○ Chef
○ Chef Student
○ Chefs
Chefs Course
○ Chelsea House
Chemical and Materials Engineers
Chemical Engineer
Chemical Plant Operator
Chemical Plant Worker
Chemical Processor
Chemical Production Machine Operator
Chemical, Gas, Petroleum and Power Generation
•
Plant Operators
○ Chemist
Chemistry Technician
Chemists, and Food and Wine Scientists
○ Chicken Farmer
○ Chief Engineer
○ Chief Executive
 Chief Executive or Managing Director
 Chief Executives and Managing Directors
 Chief Executives, General Managers and Legislators
 Chief Executives, General Managers and Legislators
Chief Information Officer
○ Child
○ Child
Child - non-resident
Child 5-15
Child At Home Only
Child Care Centre Manager
Child Care Centre Managers
Child Care Worker
Child Care Worker (Home Based)
○ Child Carers
Child Carers
○ Child Minder
 Child or Youth Residential Care Assistant
Child Support Officer
Child under 16
Child under 5
Child under 5 Attends Preschool
O
○ Childcare Teacher
○ Childcare Teacher○ Childcare Workder
Childcare Workder
Childcare WorkderChildcare Worker
○ Childcare Workder○ Childcare Worker○ Chimney Sweep
Childcare WorkderChildcare WorkerChimney SweepChiropractor
 Childcare Workder Childcare Worker Chimney Sweep Chiropractor Chiropractor Assistant
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths ○ Chocolate Packer
 Childcare Workder Childcare Worker Chimney Sweep Chiropractor Chiropractor Assistant Chiropractors and Osteopaths Chocolate Packer Church Worker
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths ○ Chocolate Packer

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○ Civil Celebrant
Civil Engineer
○ Civil Engineering Draftsperson
 Civil Engineering Draftspersons and Technicians
○ Civil Engineering Professionals
○ Civil Engineering Technician
○ Civil Servant
O CIVII SCIVUIL
Classified Advertising Clerk
Clay Processing Factory Worker
Clay Processing ractory Worker
 Clay Products Machine Operator
Clay, Concrete, Glass and Stone Processing Machine
Operators
Clay, Concrete, Glass and Stone Processing Machine
Operators nec
○ Cleaner
Cleaner
Cicurici
Cleaner
Cleaner
Clearlei
Cleaner
○ Cleaner And Nanny
○ Cleaner/caretaker
 Cleaners and Laundry Workers
 Cleaners and Laundry Workers
○ Cleaners nec
Cleaning Company Manager
Cleaning Company Manager
Clerical and Administrative Workers nec
Clerical and Office Support Worker
Clerical and Office Support Worker
 Clerical and Office Support Workers
 Clerical and Office Support Workers nec
○ Clerk
○ Clerk of Court
 Clinical And Corporate Psychologist
O Cililical And Corporate 1 Sychologist
O Clinical Coder
Clinical Nurse
○ Clinical Oncologist
Clinical Baychologist
Clinical Psychologist
○ Clinical Psychologist
○ Clothing Designer
Clothing Patternmaker
 Clothing Trades Workers
Clothing Trades Workers nec
Clothing trades workers her
○ Co-Director
Co-ordinator Brand
Co-ordinator Brand
○ Co-ordinator Brand
Co-ordinator Brand
○ Coach Builder
Coach Painter
○ Coal Miner
Coding Clerk
○ Coldshelf Assistant
Coldshelf Assistant
○ College Student
○ Comedian
Commercial Cleaner
○ Commercial Cleaners
Commercial Designer
Commercial Designer
Commercial Diver
Commercial fisherman
○ Commercial Housekeeper
○ Commercial Manager
Commissioned Defence Force Officer
Commissioned Fire Officer
ullet
 Commissioned Officers (Management)
Commissioned Police Officer
○ Commodities Trader
Communications Advisor
() COMMUNICATIONS AGVISOR
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•
Communications Director
•
Communications Director

Communications Technician
○ Community
 Community and Personal Service Workers
Community Arts Worker
community Support Worker
 Community Support Worker
Community Worker
Companion Driving Business
Company Director
Company Secretary
Complementary Health Therapists
Complementary Health Therapists nec
Compliance Officer
Composer
Computer Analyst
Computer Analyst
Computer Engineer
Computer Network and Systems Engineer
Computer Network Professionals
O Computer Operator
O Computer Programmer
Computer Technician
 Concrete Batching Plant Operator
 Concrete Products Machine Operator
○ Concrete Pump Driver
 Concrete Pump Operator
Concreter
○ Concreters
Confectionery Maker
Conference and Event Organiser
Conference and Event Organisers
O Conservation Officer
O Conservator
Construction and Mining Labourers
Construction Estimator
Construction Manager
Construction Project Manager
Construction Rigger
Construction Trades Worker
Construction Worker
Construction, Distribution and Production Managers
Consultant Engineer
Consultant Engineer
Oconsultant Physician
O Contact Centre
Contact Centre Manager
○ Container Filler
Contract Administrator
○ Contract Worker
 Contract, Program and Project Administrators
 Contract, Program and Project Administrators
○ Contractor
Contractor nfd
○ Controller
○ Conveyancer
 Conveyancers and Legal Executives
○ Cook
O Cookery Student
O Cooks
○ Cool Storage Worker
○ Coordinator
Coordinator - About Kids
Copywriter
Corporate General Manager
Corporate Services Manager
Corporate Services Managers
Corporate Trainer
Corporate Treasurer
Corrections Officer
O Cosmetic Physician
Cosmetic ResearcherCosmetology

○ Cost Clerk
○ Cotton Grower
○ Council Worker
○ Counsellors
○ Counsellors nec
Countdown Supervisor
○ Courier
Couriers and Postal Deliverers
O Court and Legal Clerks
Court Collections Officer
Court Registry Officer
Court Worker
CPH Dialysis Unit
○ Crane Chaser
Crane, Hoist and Lift Operators
Crane, Hoist or Lift Operator
Creative Director
Credit and Loans Officers (Aus)/Finance Clerks (NZ)
Credit Controller
Credit or Loans Officer
Crop Farm Worker
Crop Farm Workers nec
Crop Farmer
Crop Farmer
Crop Farmers nec
Crossing Supervisor
Crowd Controller
Cruise Ship Crew
Currently Not Working
Currently Not Working - Pregnant
Currently Unemployed
○ Custodian
 Customer Business Centre Consultant
 Customer Service Manager
 Customer Service Representative
○ Customer Services
Customs Officer
○ Cycalist
Cycle Courier
Cycling Coach
Oairy Cattle Farm Worker
O Dairy Cattle Farm Worker - Share Holder
O Dairy Cattle Farmer
O Dairy Factory Worker
O Dairy Farm Worker
O Dairy Farm Worker
O Dairy Farm Worker
Dairy Farmer
Dairy Farmer
O Dairy Farmer
Dairy Farmer (Carterton)
Dairy Operator
Dairy Owner
Dairy Products Maker
O Dairy Retail Assistant
O Dairy Retail Assistant
O Dance Teacher (Private Tuition)
O Dancer or Choreographer
O Data Entry From Home
O Data Entry Operator
Data Processing Analyst
Database Administrator
 Database and Systems Administrators, and ICT
Security Specialists
O Database and Systems Administrators, and ICT
Security Specialists
O Day Care Centre Worker
O Daycare Teacher
O Daycare Worker
O Debt Collector
O Debt Collectors

O Deck and Fishing Hands	
O Deck Hand	
O Deep Fryer	
O Deer Farmer	
Defence Force Member - Other RanksDefence Force Members - Other Ranks	
 Defence Force Members, Fire Fighters and Police 	
Defence Force Senior Officer	
O Delivery Driver	
O Delivery Drivers	
O Delivery Drivers	
O Dementia Worker	
O Demolition Labourer	
Dental AssistantDental Assistants	
Dental Assistants Dental Hygienist	
Dental Hygienists, Technicians and Therapists	
O Dental Practitioner	
Dental Prosthetist	
Dental Specialist	
O Dental Technician	
Dental Technician Dental Therepist	
Dental TherapistDentist	
Department Director General	
Department Of Corrections	
Oppt Of Justice	
O Deputy Principal	
O Deputy Registrar	
O Dermatologist	
DeseasedDesign Consultant	
Design ConsultantDesign, Engineering, Science and Transport	
Professional	
○ Designer	
O Desk Officer	
O Desktop Publisher	
Despatching and Receiving Clerk	
O Detailer	
DetectiveDeveloper	
Developer Programmer	
Diagnostic and Interventional Radiologist	
 Diary Farmer 	
Diesel Motor Mechanic	
ODietitian	
O Different Jobs	
Digger DriverDigital Consultant	
Digital Consultant Digital Plate Marker	
O Diplomat	
O Director	
Director (Film, Television, Radio or Stage)	
Director (Food Safety And Quality)	
O Director of Photography	
Disabilities Services OfficerDish Washer	
DistributionDispatch	
Dispatcher In A Factory	
 Dispensing Optician 	
Distribution	
O District Manager	
O District Nurse	
District NurseDistrict Nurse - Keri Keri	
District Nurse - Kerl Kerl Diver	
Diversional Therapist	
Diversional Therapists	
Diving Instructor (Open Water)	
ODoctor	
 Doctor-Retired 	

O Dog Breeder
O Dog Handler or Trainer
O Dog or Horse Racing Official
○ Domestic Cleaner
○ Domestic Cleaners
Domestic Housekeeper
○ Dominatrix
O Door And Window Fitter
O Door-to-door Salesperson
O Doorperson or Luggage Porter
O Douglas Park School
O Draft Person
O Draftsman
O Drain Layer
O Drain Layer
O Drainage Contractor
O Drainage Engineer
O Drainage Technician
O Drainage, Sewerage and Stormwater Labourer
O Drainlayer (NZ)
O Drama Teacher (Private Tuition)
O Draughtsman
Dressmaker or Tailor
O Driller
O Driller's Assistant
O Drillers, Miners and Shot Firers
O Driver
O Driver / Road Inspector
O Driving Instructor
O Driving Instructors
O Drug and Alcohol Counsellor
O Drycleaner
O Duty Cliinician
Outy Manager
Early Childhood (Pre-primary School) Teacher
○ Early Childhood (Pre-primary School) Teacher
Reliever
Early Childhood (Pre-primary School) Teachers
Early Childhood Centre Leader
○ Earth Rig Digger
Earth Science Technician
Earthmoving Labourer
Earthmoving Plant Operator
Earthmoving Plant Operator (General)
Earthwork Contractor
C ECC Teacher
C ECEC Teacher
C ECEC Worker
○ ECG Technician
○ Ecologist
© Economist
© Economists
○ Editor
Education Adviser
Education Advisers and Reviewers
Education Aide
Education Aides
Education Consultant
Education Facilitator At NZQA
Education Managers necEducation Professional
Education Reviewer
Education Support Worker
Education Team Leader
Education, Health and Welfare Services Managers
Educational Consultant
Educational Psychologist
© Educator
○ Electorate Officer
Electrical Distribution Trades Workers
Electrical Engineer

ELECTRICAL ENGINEER	
 Electrical Engineering Draftsperson 	
 Electrical Engineering Draftspersons and 	
Technicians	
Electrical Engineering Technician	
 Electrical Engineers 	
 Electrical Inspector 	
Electrical Line Mechanic	
Electrical Maintainer	
	cictont
○ Electrical or Telecommunications Trades As	ssistant
 Electrical Wholesaler 	
Electrician	
Electrician (General)	
Electrician (Special Class)	
Electricians	
 Electronic Assistant 	
 Electronic Engineering Draftsperson 	
 Electronic Engineering Draftspersons and 	
Technicians	
Electronic Engineering Technician	
 Electronic Equipment Trades Worker 	
 Electronic Instrument Trades Worker (Gene 	eral)
 Electronic Instrument Trades Worker (Spec 	
Electronics and Telecommunications Trade	
	3 WUIKEIS
Electronics Engineer	
 Electronics Engineers 	
Electronics Trades Workers	
Electroplater	
 Electrotechnology and Telecommunications 	s Trados
	s iraues
Workers	
 Emergency Management Technician 	
 Emergency Medicine Specialist 	
 Emergency Service Worker 	
○ Employee	
Employment Advisor	
 Endocrinologist 	
EndocrinologistEnergy Centre Operator	
EndocrinologistEnergy Centre OperatorEngineer	
EndocrinologistEnergy Centre OperatorEngineerengineer	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager 	
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 ○ Endocrinologist ○ Energy Centre Operator ○ Engineer ○ Engineer Nec ○ Engineering Manager ○ ENGINEERING MANAGER ○ Engineering Manager ○ Engineering Manager ○ Engineering Managers ○ Engineering Patternmaker 	
 ○ Endocrinologist ○ Energy Centre Operator ○ Engineer ○ engineer ○ Engineer Nec ○ Engineering Manager ○ ENGINEERING MANAGER ○ Engineering Manager ○ Engineering Managers ○ Engineering Patternmaker ○ Engineering Production Systems Worker 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Manager Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers 	
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 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur 	
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\sim	Excavator Operator
\cup	Exchange Student
\circ	Executive Assisstant
\circ	Exercise Physiologist
Ō	Exhaust and Muffler Fitter
Ō	Exporting Cattle
\bigcirc	External Auditor
Ŏ	Eve Surgeon
Ŏ	Eye Surgeon Ezibuy Wellington
Ŏ	Fabric and Textile Factory Worker
	Fabrication Engineering Trades Worker
	Fabricator Installer
Ŏ	Facilitator
Ŏ	Facilities Administrator
Ŏ	Facilities Advisor
	Facilities Manager
	Factory Hand Fibreglass Moulding
Ŏ	Factory Inghams
	Factory Manager
	Factory Process Worker
Ŏ	Factory Process Workers nec
	Factory Supervisor
	Factory Worker
	Factory Worker
	Factory Worker
Ŏ	Factory Worker
Ŏ	Factory Worker - Mussels
	Factory Worker (food)
	Faculty Head
	Family and Marriage Counsellor
	Family Business Employee
Ō	Family Bussiness
	Family Day Care Worker
	Family Support Worker
\circ	Family Therapist
0	Farm Adviser
\circ	Farm Advisor
	Farm Advisor Farm Cadet
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000	Farm Cadet Farm Hand Farm Manager
0000	Farm Cadet Farm Hand Farm Manager Farm Worker
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0000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker
00000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker
000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers
0000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer
0000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer Self Employed
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer and Farm Manager Farmer Self Employed Farmer/Farm Hand
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer and Farm Manager Farmer Self Employed Farmer/Farm Hand Farmer/stay At Home
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer Self Employed Farmer/Farm Hand Farmer/Stay At Home Farmer/Stay At Home
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farmer, Forestry and Garden Workers nec Farmer Farmer Self Employed Farmer/Farm Hand Farmer/Stay At Home Farmer/Stay At Home Farmers and Farm Managers
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer Self Employed Farmer/Farm Hand Farmer/Stay At Home Farmer/Stay At Home Mother Farmers and Farm Managers Farmkill Slaughterman
000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Workers nec Farmer Farmer and Farm Manager Farmer Self Employed Farmer/Farm Hand Farmer/stay At Home Farmer/Stay At Home Mother Farmers and Farm Managers Farmkill Slaughterman Farmyard Valley Road
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○ Field Crop
○ Field Crop
Field Crop Farm Worker
Field Ranger And Dog Handlerfield Scientist
field Scientist
Filinance Manager
Filing and Registry Clerks
Filing or Registry Clerk
Filling Assistant - Supermarket
Film and Video Editor
○ Film Producer
Film Producer/Zumba Instructor
Film, Television, Radio and Stage Directors
Film, Television, Radio and Stage Directors necFinance
FINANCE ACCOUNTANT
Finance And Permit Officer
○ Finance Broker
Finance Manager
○ Finance Manager
○ Finance Managers
Financial Advisor
Financial and Insurance Clerks
Financial AuditorFinancial Brokers
Financial Brokers and Dealers, and Investment
Advisers
○ Financial Brokers nec
Financial Clerk
Financial Controller
Financial Dealers
Financial Dealers nec
Financial Institution Branch ManagerFinancial Investment Adviser
Financial Investment Advisers and Managers
Financial Investment Manager
Financial Market Dealer
 Fire and Emergency Workers
○ Fire Fighter
Fire Fighter
Fire Protection Equipment Technician
First Aid TrainerFish And Chips Worker
Fish Factory Worker
Fish N Chip Shop
Fisheries Officer
○ Fisherman
○ Fishery Worker
Fishing Charter
Fishing Guide
○ Fishing Hand○ Fitness Centre Manager
Fitness Instructor
Fitness Instructors
○ Fitter (General)
Fitter and Turner
○ Fitter-Welder
Fleet Manager
Flight Attendant
Flight AttendantFlight Attendant Supervisor
Flock Caregiver
Floor Finisher
Floor Finishers
Floor Finishers and Painting Trades Workers
○ Floor Layer
Florist
○ Florists○ Flower Grower
flower Packer

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FonterraFood and Drink Factory Workers	
From and Drink Factory Workers	
Food and Drink Factory Workers nec	
Food Chemist	
Food Delivery	
Food Factory Worker	
Food Handler	
Food Handler	
Food Preparation Assistant	
Food Preparation AssistantsFood Process Workers	
Food Process Workers	
Food Safety Officer	
Food Services Manager	
Food Techician	
Food Technician	
Food Technologist	
Food Trades Assistants	
Food Trades Assistants	
Cond Trades Workers	
Food Trades Workers	
Food Trades Workers	
Food Truck Operator	
Food Worker	
Food Worker At McDonalds (Clendon))
Footballer	
Footwear Factory Worker	
 Footwear Production Machine Operat 	or
Force Mechanic	
Foreign Exchange Officer	
Foreign Worker	
Foreman	
Forest Scientist	
Forestry Consultant	
Forestry Worker	
Forestry, Logging Worker	
Forklift Driver	
Forklift Driver	
O Forklift Operator	
Forklift Operator ENZA	
Foster Parent	
Foundry Worker	
Free Lance Photographer / Writer	
Freelance Editor	
Freelance Journalist Freelance Work	
Freelance Work	
Freelance Writer - Works From Home	
Freezing Worker	
Freezing Worker/Processor	
 Freight and Furniture Handlers 	
Freight Handler (Rail or Road)	
 Freight Handlers and Shelf Fillers 	
 Fruit and Vegetable Factory Worker 	
 Fruit and Vegetable Packer 	
Fruit or Nut Farm Worker	
Fruit or Nut Grower	
Fruit or Nut Picker	
○ Fruit or Nut Picker○ Fruit Packer	
Full Time Mother	
Fulton Hogan - Sewage Contractor	
○ Fund Manager	
Funeral Director	
Funeral Workers	
Funeral Workers nec	
Furniture Finisher	
C Furniture Maker	
Furniture MakerFurniture RemovalistFurniture Remover	
C Furniture Remover	
O Furniture Remover	
Furniture Restorer	
O Futures Trader	
() Gallory or Musoum Curator	
○ Gallery or Museum Curator○ Gallery or Museum Guide	

Gallery or Museum Technician	
 Gallery, Library and Museum Technicians 	
\bigcirc Gallery, Museum and Tour Guides	
○ Game Controller	
○ Gaming Worker	
Gaming Workers	
 Garden and Nursery Labourer 	
Garden Labourer	
igcirc gardener	
Gardener (General)	
Gardeners	
○ Gardeners	
Gas or Petroleum Operator	
Gasfitter	
○ Gastroenterologist	
General Clerical Workers	
○ General Clerk	
○ General Clerks	
○ General Clerks	
General Dental Practice; Clinical Director Max	(IIIO
Facial Unit	
○ General Manager	
 General Medical Practitioner 	
 General Pactitioner - Locum 	
General Practice (Doctor)	
 General Practitioner 	
 General Practitioners and Resident Medical O 	fficers
General Worker	
○ Geologist	
Geologist Engineer	
 Geologists, Geophysicists and Hydrogeologis 	ts
Geophysicist	
Geotechnical Engineer	
Geothermal Maintenance Technician	
○ Gib Fixer	
Glass Blower	
Glass Processing Worker	
Glass Production Machine Operator	
Glazier	
○ Glaziers	
○ Glaziers ○ Glaziers, Plasterers and Tilers	
Goat Farmer	
Golfer	
○ Government Employee	
O Government Service	
○ Grader Operator	
Grading Supervisor (Food Handler)	
Grain Mill Worker	
○ Grape Grower	
 Graphic and Web Designers, and Illustrators 	
Graphic Arts Worker	
 Graphic Designer 	
 Graphic Pre-press Trades Worker 	
 Graphic Pre-press Trades Workers 	
Greenkeeper	
Grocery Store Manager	
Grocery Store Supervisor	
○ Groundsman	
○ Grower Liaison	
Guidance Counsellor	
O Gunsmith	
Gym Equipment Fixer	
Gym Instructor	
Gymnastics Coach or Instructor	
Haematologist Hair Dressing Teacher	
Hair Dressing Teacher	
Hair Dressing TeacherHair or Beauty Salon Assistant	
Hair Dressing TeacherHair or Beauty Salon AssistantHair or Beauty Salon Manager	
Hair Dressing TeacherHair or Beauty Salon Assistant	

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Hairdresser (home-based)	
○ Hairdressers	
Hairdressers	
Handyman	
Handyperson	
○ Handypersons	
Harcourts	
Hardware Technician	
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O Head Nurse	
Health And Safetey	
Health And Safety	
 Health And Saftey 	
Health And Saftey Co-ordinator	
Health And Welfare Coodinator	
Health and Welfare Services Managers	
 Health and Welfare Services Managers nec 	
 Health and Welfare Support Worker 	
Health and Welfare Support Workers	
Health Assistant	
Health Care Assistant	
 Health Care Assistant 	
 Health Diagnostic and Promotion Professions 	als
Health Diagnostic and Promotion Professional	
Health Information Manager	J.5 1.00
Health Meciation Packing	
 Health Practice Manager 	
Health Professional	
Health Promotion Officer	
Health Services	
Health Services Manager	
 Health Therapy Professionals 	
Health Worker	
Health Worker	
Healthcare - Caregiver	
Healthcare Staff	
 Healthcare Worker 	
Healthline Nurse (Call Centre)	
Helicopter Pilot	
Herald Distributor	
Herbalist	
Herbalist (Western)	
Herd Tester	
HG Group Ltd	
Hide and Skin Processing Machine Operator	
Hide and Skin Processing Worker	
 High School PE Teacher 	
High School Student	
 High School Teacher 	
◯ Hire A Hubby	
Historian	
Holiday Park Owner	
 Holiday Programme Worker 	
Home Care Assistant	
Home Carer For Her Parents	
•	
O Home Duty	
Home Econmics Teacher	
Home Executive	
○ Home Help	
Home Improvement Installer	
Home Kill Butcher	
 Home Maintenance Contractor 	
Home Teaching	
Homebased Childcare	
Homebased Childcare	
<u>~</u>	
O Homecare Assistant	
○ Homemaker	
Homemaker Painting	
Homestay Owner/Operator	
Homoeopath	
O Horse Breeder	
○ Horse Dentist	

Horse Rider	
Horse Riding Coach or Instructor	
Horse Trainer	
 Horticultural Nursery Assistant 	
 Horticultural Trades Worker 	
Horticulturalist	
Horticulture Worker	
O Horticulturist	
Hospital Laboratory Technician	
Hospital Nurse	
Hospital Orderly	
Hospital Pharmacist	
Hospital Receptionist	
Hospital Volunteer Worker	
O Hospital Worker	
Hospitality Worker	
Hospitality Workers	
Hospitality Workers nec	
 Hospitality, Retail and Service Management 	gers
O Hospitality, Retail and Service Manage	
Hostel Matron	gers nee
O Hastal Barrat	
O Hostel Parent	
 Hotel and Motel Managers 	
 Hotel or Motel Manager 	
Hotel or Motel Receptionist	
Hotel Service Manager	
Hotel Service Managers	
O Hotel Worker	
Hotel Worker	
○ Hotelier	
House Husband	
House Painter	
O House Wife	
○ Housekeeper	
O Havaalaaaaa	
Housekeepers	
Housekeeping Manager	
Housekeeping ManagerHousewife	
○ Housewife	ılance
HousewifeHousewife Occasionally Drives Ambu	
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○ ICT Quality Assurance Engineer○ ICT Sales Assistant	
O ICT Sales Assistants	
○ ICT Sales Professionals	
○ ICT Sales Representative	
 ICT Security Specialist 	
 ICT Support and Test Engineers 	
○ ICT Support and Test Engineers nec	
ICT Support Engineer	
ICT Support Technicians nec	
O ICT Systems Test Engineer	
O ICT Technician	
O ICT Trainer	
O ICT Trainers	
○ ICU Non Clinical	
○ Illustrator	
 Immigration Consultant 	
○ Immigration Officer	
Implementation Manager	
○ Import-Export Clerk	
Import Export Glerk Importer or Exporter	
Importers, Exporters and Wholesalers	
Olymprovement Officer	
In mental health facility	
O In prison	
O In-home Care	
Independent Midwife	
 Indigenous Health Workers 	
 Industrial Designer 	
 Industrial Electrician 	
Industrial Engineer	
Industrial Operation Manager	
○ Industrial Pharmacist	
Industrial Spraypainter	
Industrial Spraypainters	
 Industrial Spraypainters Industrial, Mechanical and Production Engineers 	_
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O Infant	
 Information and Organisation Professionals 	
 Information and Organisation Professionals Information and Organisation Professionals nec 	
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 Information and Organisation Professionals Information and Organisation Professionals nec Information Officers Information Technology 	
 Information and Organisation Professionals Information and Organisation Professionals nec Information Officers Information Technology Inquiry Clerk 	
 Information and Organisation Professionals Information and Organisation Professionals nec Information Officers Information Technology 	
 Information and Organisation Professionals Information and Organisation Professionals nec Information Officers Information Technology Inquiry Clerk Inquiry Clerks and Receptionists 	
 ○ Information and Organisation Professionals ○ Information and Organisation Professionals nec ○ Information Officers ○ Information Technology ○ Inquiry Clerk ○ Inquiry Clerks and Receptionists ○ Inspectors and Regulatory Officers 	
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 ○ Information and Organisation Professionals ○ Information and Organisation Professionals nec ○ Information Officers ○ Information Technology ○ Inquiry Clerk ○ Inquiry Clerks and Receptionists ○ Inspectors and Regulatory Officers ○ Inspectors and Regulatory Officers ○ Installer Fireplaces ○ Institutionalised ○ Instructor ○ Insulation and Home Improvement Installers 	
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 Intermediate School Student
Intermediate School Teacher
O Internal Auditor
Internal Medicine Specialists necInternational Aid
International AidInternational Marketing Director
International Student
Interpreter
Invalid Beneficiary
Inventory Officer
Inventory Purchaser
Investigator
O Investment Advisor
O IRD Coach
○ Ironer or Presser○ Irrigation Engineer
Irrigation Engineer Irrigation Installer
IT Administrator
○ IT Consultant
IT Consultant
○ It Manager
○ IT Manager
○ IT Professional
IT Professional Currently Not Working
○ IT Project Manager○ IT Sales
○ IT Specialist
IT Support Management
○ IT Technician
O IT Worker
○ IT Worker
○ ITG Group
○ Janitor○ Jeweller
○ Jeweller
○ Jewellers
 Jewellery Designer
○ Jewellery Designer○ Jewellery Sales Assistant
○ Jewellery Designer○ Jewellery Sales Assistant○ JNL
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist
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) Kumara Farmer
) Kumara Processor
) Lab Technician - Orthodontist
) Lab Worker
) Laboratory Manager
	Laboratory Receptionist
) Laboratory Technician) Laboratory Worker
) Laboratory Worker
) Laboratory Worker/Chemical Engineer
) Labourer
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) Land Surveyor
) Landscape
) Landscape Architect
) Landscape Designer
) Landscape Designer) Landscape Gardener
) Laundress
) Laundromat Worker
	Laundry Assistant
	Laundry Assistant
	Laundry Stylist
	Laundry Worker
	Laundry Worker (General)
	Laundry Workers
) Law Clerk
\subseteq) Lawnmowing Operator
) Lawyer
) Lead Lighter) Leaflet or Newspaper Deliverer
) Leaflet or Newspaper Deliverer
	Learning And Development Co-ordinator
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) Learning Assistant
) Learning Assistant) Leather Goods Maker
) Learning Assistant
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) Learning Assistant) Leather Goods Maker) Lecturer) Legal Executive
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	Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators Librarian Librarians Library Assistant Library Assistants Library Technician Licensed Club Manager Licensed Club Managers
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	Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators nec Liaison Officer Librarian Librarians Library Assistant Library Assistants Library Technician Libriarian Licensed Club Manager Licensed Club Manager Licensed Club Managers Life Science Technician Life Scientists nec Life Style Block Owner Lifeguard Lift Mechanic Light Technician Lighting Technician Light Technician
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 Livestock Handler 	
Livestock Transport	
 Livestock Truck Cleaner 	
○ Loader	
Loader Operator	
 Local Government Legislator 	
○ Locksmith	
CLOCKSIIIILII	
 Locomotive Engineer 	
Lodge Manager	
C Louge Manager	
Log Buyer	
Log Grader	
Log Painter	
Logging Assistant	
Logging Plant Operator	
C Logging Flank Operator	
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 Logistics Management 	
Logistics ManagementLogistics Manager	
Logistics Planner	
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 Looks After Grandhchildren At Home 	9
Lounge Assistant	
 Machine and Stationary Plant Opera 	tors
Machine Operator	
Machine Operator	
Machine Operator	
Machine Operators nos	
Machine Operators nec	
 Machine Shorthand Reporter 	
Machinery Operators and Drivers	
O Machinery Operators and Drivers	
Machinist	
Maclean Fish Supply	
Manistration	
○ Magistrate	
Mail Sorters	
Maintenance Manager	
Maintenance Planner	
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Maritime Brokerage
Market Garden Worker
○ Market Gardener
Market Research Analyst
Marketer
○ Marketing Manager
Marketing Specialist
Marketing Specialist
Marketing/customer Services
Martial Arts Instructer
Massage Therapist
Massage Therapists
○ Master Fisher
Masters Student
○ Mat Maker
Materials Engineer
Materials Recycler
Maternity Leave
Mathematician
Meat Boner and Slicer
 Meat Boners and Slicers, and Slaughterers
Meat Factory Worker
Meat Inspector
Meat Packer
Meat Process Worker
O Mark Trocess Worker
Meat Worker
Meat Worker
○ Mechanic
Mechanic / Soldier
○ Mechanic Team Leader
Mechanic's Assistant
Mechanical Engineer
Mechanical Engineer
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Metal Engineering Process Workers
Metal Fabricator
Metal Fitters and Machinists
Metal Machinists nec
Metal Machinist (First Class)
Metal PolisherMetal Worker
Metallurgical or Materials Technician
✓ Metallurgist✓ Meteorologist
Meter Reader
○ Microbiologist
Middle School Teachers (Aus) / Intermediate School
Teachers (NZ)
Midwife
Midwifery and Nursing Professionals
Midwives
Military Rifleman
Milk Harvester / Calve Rearer
Milk Tanker Driver
○ Milker
Milking Machine Fitter And Water Pump Technician
Mine Deputy
Mine Supervisor
Miner
Mining Engineer (excluding Petroleum)
Mining Support Worker
Minister of Religion
Ministerial Lead Advisor
Ministers of Religion
Ministry Of Education
Ministry Of Education
Ministry Of Justice
Ministry Of Justice Worker
Ministry Of Social Development
Ministry Of Transport Miscellaneous Clarical and Administrative Workers
Miscellaneous Clerical and Administrative WorkersMiscellaneous Education Professionals
Miscellaneous Factory Process Workers
Miscellaneous Hospitality, Retail and Service
Managers
○ Miscellaneous Labourers
Miscellaneous Sales Support Workers
Miscellaneous Specialist Managers
Miscellaneous Technicians and Trades Workers
Missionary
Mixed Crop and Livestock Farm Worker
Mixed Crop and Livestock Farm Worker
 Mixed Crop and Livestock Farmer
 Mixed Crop and Livestock Farmer
Mixed Crop Farmer
Mixed Livedstock Producer
Mixed Livestock Farm Worker
Mixed Livestock Farmer
Mobile Lending Manager
○ Mobile Lending Manager (ASB)
Mobile Plant Operator
Mobile Plant Operators
Mobile Plant Operators nec
Model
Models and Sales Demonstrators
Modern Transport Engineer
Money Eychange Worker
Money Exchange WorkerMoney Market Clerk
Monk
Monumental Mason
Mortgage Broker
Moss Factory
Moss Factory Worker

Moss Worker	
○ Motelier	
○ Mother	
Mother And Part-time Yoga Teacher	
Mother At Home	
Mothercraft Nurse	
Motion Picture Projectionist	
Motor Mechanic (General)	
 Motor Vehicle and Vehicle Parts Salespersor 	าร
 Motor Vehicle Licence Examiner 	
 Motor Vehicle or Caravan Salesperson 	
 Motor Vehicle Parts and Accessories Fitter 	
(General)	
Motor Vehicle Parts and Accessories Fitters	
Motorcycle Mechanic Material And Community Maintenance	
Motorhome And Caravan Maintenance	
Mountain or Glacier Guide	
Moving Weeds	
 Multimedia Designer 	
Multimedia Specialist	
 Multimedia Specialists and Web Developers 	
Mum And Farm Worker	
Mushroom Picker	
Music Director	
Music Professionals	
Music Professionals nec	
Music Store Owner	
Music Teacher (Private Tuition)	
 Musical Instrument Maker or Repairer 	
Musician (Instrumental)	
Muster	
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NaeTec Limited	
Nail Technician	
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○ Note Taker
Noxious Weeds and Pest Inspector
Nuclear Medicine Technologist
Nuclear Physicist
Numerical Clerks
Nun
Nurse
Nurse
Nurse Pre/Post Natal
Nurse Aide
Nurse Aide/Healthcare Asst
Nurse Educator
Nurse Educators and Researchers
○ Nurse Manager
○ Nurse Managers
○ Nurse Practitioner
Nurse Researcher
Nurse Specialist
Nurse Team Leader
Nurse-Former
Nurse/Midwife
Nurseryperson
Nurserypersons Nurses And Midwifery
Nurses And Midwifery
Nursing Clinical Director
Nursing Student
Nursing Support and Personal Care Workers
○ Nursing Support Worker
Nutrient Specialist
Nutrition Professionals
○ Nutritionist
○ NZ Post
NZ Racing Board
NZDF
() NZTA
NZTA Obstetrician and Gynaecologist
Obstetrician and Gynaecologist
Obstetrician and GynaecologistOccupational and Environmental Health Professionals
 Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser
 Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist
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Orchard Manage	r
Orchard Worker	
Orchardist	
Order Clerk	
Order ClerkOrder Filler	
Organic Farm W	orker
Organic Farm W	
Organisation and	
Organisational C	
Organisational P	
Orthopaedic Sur	
Orthoptist	-
Orthotist or Pros	thetist
Osteopath	
Other	
Other Accommo	dation and Hospitality Managers
	nd Engineering Technicians
Other Cleaners	
	d Administrative Workers
	d Office Support Workers
	on and Mining Labourers
Other EducationOther Engineering	
Other Factory Pr	estry and Garden Worker
	ignostic and Promotion Professionals
Other Hospitality	
	, Retail and Service Managers
	n and Organisation Professional
Other Labourers	
Other Machine C	perators
	ous Clerical and Administrative
Workers	
Other Miscellane	
	ous Technicians and Trades Workers
Other Mobile Pla	
	d Physical Science Professionals
Other Personal S	
Other Sales Sup	
Other Sales Supp	
Other Spatial Sc	
Other SpecialistOther Sports Coa	
Other Sports Off	
Other Stationary	
	ns and Trades Workers
	cessing Machine Operator
Otorhinolaryngo	
Out of School Ho	
	urs Care Worker (Oscar)
Outdoor Adventr	
Outdoor Advent	
Outdoor Advent	
Outdoor Adventu	
Outdoor Educati	on
Oyster Farmer	
Oyster ShuckerPacific Ambassa	dor
Pacific Health Action Pacific Health Action	
O Packers	111301
O Packers and Pro	duct Assemblers
O Packers nec	adec / Obermorers
O Packhouse Work	er
O PACT House Pati	
O Paediatric Surge	
O Paediatrician	
O Paint Stripper	
Painter	
O Painter (Visual A	
Painter/Decorate	or

O Painting Trades Worker
Painting Trades Workers
O Pak N Save
○ Panelbeater
O Panelbeaters, and Vehicle Body Builders, Trimmers
and Painters
Paper and Pulp Mill Operator
Paper and Pulp Mill Worker
 Paper and Wood Processing Machine Operators
Paper Products Machine Operator
O Parasail Skipper
O Park Ranger
Parking Inspector
O Parole or Probation Officer
Part Rime Cab Driver
O Part time Cab Driver
O Part Time Student /Part Time Retail Assistant
O Part Time Supermarket Worker And High school
Student
Part-time Accountant
Part-time Construction Worker
Part-time Construction Worker
Part-time Driver
Part-time Farmer
Parts Manager
Parts Supervisor
Passenger Coach Driver
Pastor
Pastrycook
Pastrycook's Assistant
O Patents Examiner
O Pathologist
Pathology Collector (Aus)/Phlebotomist (NZ)
O Patient Advocate
O Patient Information Officer
Paving and Surfacing Labourer
 Paving and Surfacing Labourers
Paving Plant Operator
Payments Administrator
Payroll Clerk
Payroll Clerks
O Peer Support Co Ordinator
Performing Arts Technicians
Performing Arts Technicians nec
O Personal Assistant
Personal Assistants
Personal Assistants and Secretaries
Personal Assistants and Secretaries
O Personal Care Assistant
Personal Care Consultants
Personal Carers and Assistants
Personal Service and Travel Workers
Personal Service Workers nec
Personal Trainer
Pest Controller
Pest Controller And Enviro Schools
•
Pest or Weed Controller
Pet Groomer
O Petfood Worker
O Petrol Garage Worker
O Petroleum Engineer
PG Wrightson Administrator
Pharmacist
○ Pharmacist
Pharmacutical Production Manager
Pharmacy Sales Assistant
Pharmacy Sales Assistants
Pharmacy Technician
Pharmacy Technician
O PhD Student
O Phlebotomist

Phlebotomist
Photographer
Photographer's Assistant
Photographers
O Photographic Developer and Printer
O Photographic Developers and Printers
Phys Ed Officer
O Physi Ed Office
PhysicianPhysicist
Physio Assistant/Parent
Physiotherapist
O Physiotherapists
Piano Teacher
Picture Framer
O Pig Farmer
O Pilates Teacher
O Pilot
O Pipeline Engineer
O Pizza Delivery
O Plant Nursery Worker
○ Plasterer
○ Plasterers
 Plastic and Reconstructive Surgeon
Plastic Cablemaking Machine Operator
 Plastic Compounding and Reclamation Machine
Operator
O Plastics and Rubber Factory Workers
Plastics and Rubber Production Machine Operators
Plastics and Rubber Production Machine Operators
Nec
Plastics Fabricator or Welder
Plastics Factory WorkerPlastics Process Worker
Plastics Production Machine Operator (General)
Plastics Technician
Plumber
Plumber (General)
Plumber Commercial
Plumber's Assistant
○ Plumbers
Plumbing and Drainage Inspector
O Plumbing Contractor
O Plumbing Inspector
O Plumbing Retail
○ Plunket Nurse
Podiatrist
○ Podiatrists
OPolice
O Police Detective
O Police Officer
O Police Officer Trainee
O Police Woman
O Policeman
Policy AdviserPolicy Analyst
O Policy and Planning Manager
Policy and Planning Managers
Policy Officer
Politician
O Polytechnic Teacher
O Pool Attendant
O Pool Manager
O Pool Supervisor
O Porse
O Port Worker
O Portfolio Manger
O Possum Trapper
O Possum Trapper
O Post Graduate Student
O Post Mistress

\bigcirc	Doct Office Manager
	Post Office Manager
	Postal Delivery Officer
\circ	Postal Delivery Service
	Postal Sorting Officer
	Postman
	Potato Farmer
	Potter or Ceramic Artist
\circ	Pouako Kura Kaupapa M
\bigcirc	Poultry Farm Worker
	Poultry Farmer
	Poultry Process Worker
	Poultry Worker
	Power Generation Plant Operator
\bigcirc	Practice Managers
	Practice Managers nec
	Practice Nurse
_	
_	Pre And Afterschool Care
\circ	Pre School Music Group
\bigcirc	Pre-schooler
	Precision Instrument Maker and Repairer
	Precision Metal Trades Workers
	Preschool Aide
	Preschool Co-ordinator
\bigcirc	Preschool Teacher
$\tilde{\cap}$	Preschooler
$\tilde{\cap}$	Press Secretary
\simeq	Proceure Wolder
	Pressure Welder
	Pricing Analyst
\circ	Priest
$\overline{\bigcirc}$	Primary Health Organisation Manager
	Primary Products Inspectors
	Primary Products Inspectors nec
Ō	Primary school student
\circ	Primary School Teacher
\bigcirc	Primary School Teacher Aide
$\tilde{\cap}$	Primary School Teachers
	Primary Teacher
	Principal Adviser
\circ	Principal Policy Planner
\bigcirc	Principal Release
$\tilde{\bigcirc}$	Print Finishers and Screen Printers
	Print Journalist
Õ	Printer
	Printer
\bigcirc	Printer's Assistant
	Printing Assistants and Table Workers
	Printing Machinist
	Printing Table Worker
	Printing Trades Workers
\circ	Prison and Security Officers
	Prison Guard
	Prison Officer
	Prison Officers
	Prison Program Coordinator
\circ	Prisoner
Ō	Private Investigator
	Private Nanny
	Private Tutors and Teachers
	Private Tutors and Teachers nec
	Process Packer
	Process Worker
	Processing Manager
\simeq	Procurement Director
	Procurement Manager
	Produce Worker - Supermarket
	Product Assembler .
_	Product Assemblers
	Product Controller
\cong	Droduct Evening
	Product Examiner
	Product Grader
\circ	Product Manager
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	Product Manager
	Product Quality Controllers
	Product Scanner
\bigcirc	Product Tester
	Production Assistant (Film, Television, Radio or
0	Stage)
\bigcirc	Production Clerk
	Production Designer
	Production Manager
	Production Manager (Forestry)
\circ	Production Manager (Manufacturing)
\bigcirc	Production Manager (Mining)
$\tilde{\cap}$	Production Manufacturer
	Production or Plant Engineer
	Production Planner
\simeq	Production Planner
\mathcal{C}	Production Planner
	Production Worker
	Professional Triathlete
	Professionals
\bigcirc	Professor/Lecturer
	Professor/Lecturer (Retired)
	Program Director (Television or Radio)
\simeq	Program or Project Administrator
	Programme Advisor
	Programme And Operations Coordinator
\circ	Programme Manager
\bigcirc	Programmer
	Project Builder
	Project Coordinator
\sim	Project Manager
\simeq	Project Manager
\sim	Project Manager
	Project Manager In Chrishchurch
Õ	Project Manager Security
	Proof Reader
\circ	Property Agent
\circ	Property Development Manager
Ŏ	Property Maintenance
	Property Manager
	Property Valuer
	Prostitute
	Protective Service Workers
_	Prothesist
	PSA Organiser
	Psychiatric Nurse
\circ	Psychiatrist
$\tilde{\bigcirc}$	Psychiatrists
	Psychologist
	Psychologists nec
\simeq	Psychotherapist
	Public Health Engineer
	Public Health Nurse
	Public Relations Manager
	Public Relations Professional
Ō	Public Relations Professionals
	Public Servant
	Publications Manager
	Publicist At NZ Film Festival Trust
\simeq	Publisher
	Purchasing and Supply Logistics Clerks
	Purchasing Officer
	Quadrant Hotel
\circ	Quality Assurance
\cap	Quality Assurance Manager
	Quantity Surveyor
	Quantity Surveyor
	Quarantine Officer
\simeq	Quartume Officer
\supset	Quarry Worker
	R And D Technologist
\circ	Radiation Oncologist
	Radiator Fitter
Ō	Radiator Repair

	Radiator Repairs
	Radio Despatcher
	Radio Journalist
_	Radio Presenter
_	Radiocommunications Technician
	Radiologist
	Radiology Assistant
	Railway Signal Operator
\sim	Railway Station Manager
	Railway Track Plant Operator Railway Track Worker
	Railway Track Workers
	Railways Assistant
	Real Estate Agency Licensee
	Real Estate Agent
	Real Estate Agent
	Real Estate Representative
	Real Estate Sales Agents
	Real Estate Sales Agents
	Realty Estate Agent
Ó	Rec Planner
	Receptionist
	Receptionist (General)
	Receptionists
	Records Manager
	Recreation Clerk
	Recreation Coordinator
	Recruitment
_	Recruitment Consultant
	Recruitment Manager
	Recycling and Rubbish Collectors
	Recycling Worker
	Recycling Worker Reduced To Clear
	Refinery Worker
	Refrigeration Engineer
	Refrigeration Engineer
	Refrigeration Mechanic
$\tilde{\circ}$	Refrigeration Specialist
	Refrigeration Technician
	Refuge Worker
	Refugee
	Refugee
Ō	Refuse Collector
Ó	Regional Education Manager
	Registered Nurse
	Registered Nurse
	Registered Nurse (Aged Care)
	Registered Nurse (Child and Family Health)
	Registered Nurse (Community Health)
	Registered Nurse (Critical Care and Emergency)
	Registered Nurse (Developmental Disability)
	Registered Nurse (Disability and Rehabilitation)
	Registered Nurse (Medical Practice) Registered Nurse (Medical)
	Registered Nurse (Mental Health)
	Registered Nurse (Paediatric)
	Registered Nurse (Perioperative)
	Registered Nurse (Surgical)
	Registered Nurses
	Registered Nurses nec
	Registrar Wellington High Court
	Rehabilitation Counsellor
	Reinforced Plastic and Composite Production Worker
	Relief Daycare Teacher
	Relief Milker
	Relief Secondary School Teacher
	Relief Teacher
	Religious Assistant
	Renal Medicine Specialist
\circ	Rental Salesperson

Reporter
Research Admin
Research Analyst
Nesearch Analyst
 Research and Development Manager
 Research and Development Managers
Research Assistant
Research Manager
Research Technician
Researcher
Resident Medical Officer
Residential Care Officer
O Residual Cotonomica (Operational Codes only)
Residual Categories (Operational Codes only)
Residual Categories (Operational Codes only)
Resource Developer For Education Programmes
Response not identifiable
Response Outside Scope
Response Outside Scope
Response Outside Scope/Not Stated
Response Unidentifiable
Restaurant Owner
Restaurant Worker
Restaurant Worker
Resthome Nurse
Resthome Resident
Resthome Worker
Resthome Worker - Activity Coordinator
Retail
Retail and Wool Buyers
Retail Assistant
O Retail Assistant
○ Retail Buyer
Retail Investigator
Retail Loss Prevention Officer
•
○ Retail Manager
Retail Manager (General)
○ Retail Managers
Retail Pharmacist
O Retail Filanniacist
Retail Pharmacist Assistant
Retail Supervisor
Retail Supervisors
○ Retail Work
Retail Work
Retail/Student
Retailer
○ Retailer Shop
Reticulation Technical Officer
Retired
○ Retired
Retired (lives In A Resthome)
Retired Accountant
Retired Banker
Retired but working as part-time Teacher
Retired Church Minister
○ Retired Farmer
○ Retired Farmer
Retired Farmer Living On Farm
○ Retired GP
Retired Kindergaten Teacher
Retired Midwife
Retired Nurse
Retired Pharmacist
○ Retired/Farming
Retirement Home Resident
Retirement Village Manager
○ Rheumatologist
Road and Rail Drivers
○ Road Labourer
Road Marker
Road Roller Operator
Road Safety Coordinator
Road Traffic Controller
Road Traffic Controller
CA MORE THATTIC CONTROLLER

○ Road Worker
○ Roof Plumber
○ Roof Tiler
O Roof Tilers
Roofer
Room Services (Cleaner)
Rose Breeder
RSE Supervisor
Rubber Factory Worker
Rubber Production Machine Operator
Rugby Player
Rural Bank Manager
Rural Bank Worker
Safety Inspector
Safety Inspectors
Sail Maker
○ Sailor○ Sales Administrator
Sales And Marketing - Other
Sales and Marketing - Other Sales and Marketing Manager
Sales Assistant (General)
Sales Assistants (General)
Sales Assistants and Salespersons
Sales Assistants and Salespersons
Sales Assistants and Salespersons nec
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Sales Consultant
Sales Consutant
Sales Demonstrator
Sales Engineer
Sales Engineer
Sales Manager
Sales Manager
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School Dental Nurse
○ School Girl
School Laboratory Technician
School Librarian
○ School Photographer
School Principal
○ School Principals
○ School Worker
Schoolboy
○ Schoolgirl
○ Science Technician
Science Technicians nec
Science/tech Professional
○ Scientist
Scrap Metal Dealer
Scrap Metal Worker
Screen Printer
Scrub Cutter
○ Sculptor
Seafarer
Seafood Packer
Seafood Process Worker
Sealords
Seaman
Seamstress
Seasonal Worker
Secondary school student (over 16)
Secondary school student (under 16)
Secondary School Teacher
Secondary School Teachers
Secretaries
Secretary (General)
Security Assurance Consultant
Security Consultant
Security Guard
Security Guard (Courts)
Security Oddia (Courts)
Security Officers and Guards
Security Officers and Guards nec
Security Supervisor
Seed Dresser
Self - Employed Counsellor
Self Employed
Self Employed
Self Employed
Self Employed - Construction
Self Employed - Recruitment
Self Employed - Retail
Self Employed Administration For Sports Epquipment
Company Self Employed At Home
Self Employed Bar Manager
Self Employed Coach Painter
Self Employed Coach Painter
Self Employed Contractor
Self Employed Contractor
Self Employed Electrician
Self Employed Garderner
Self Employed Logger
Self Employed Postal Worker
Self Employed Share Milker
Self Employed Sharemilker
Self-employed Cleaning Company
Self-Employed Contractor
Self-Employed Painter And Decorator
Self-Employed Studio Photographer
Semi Retired
Semi Retired - Volunteers On Marae
Semi Retired Farmer
Senior Central Government Official
 Senior Non-commissioned Defence Force Member

Senior Non-commissioned Defence Force Member
Senior Programme Advsor
Senior Scientist
Senior Test Analyst
Septic Tank Cleaner
Service Administratiion Manager
Service Consultant
Service Desk Operator
○ Service Manager
 Service Station Attendant
Service Station Attendants
Service Support Manager
Service Technician
Sewage Contractor
Sewage ContracterSewing Machinist
Sewing Machinist
Sewing Machinists
Sex Worker
○ Sex Worker or Escort
Sexual Health Clinician
○ Sharemilker
Shearer
Shearers
○ Shed Hand
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Shearer Shearers Shed Hand Sheep
○ Sneep Farm Worker
○ Sheep Farmer
○ Sheep Farmer
○ Sheep Handler
Sheetmetal Trades Worker
Sheetmetal Trades Workers
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Shell Fillers
Shelf FillerShelf FillersShepherd
() Ship's Engineer
○ Ship's Master
○ Ship's Officer
Ship's SurveyorShipwright
○ Shipwright
Shoemaker
○ Shop Assistant
Shop Manager
Shop Owner
Shop Owner
Chan Owner Manufacture Of Concrete Broducts
Shop Owner - Manufacture Of Concrete Products
Short Top And Sides
Shot Firer
○ Shuttle Driver
○ Sickness Beneficiary
Sickness Beneficiary (previously Caregiver In A
Resthome)
Sickness Beneficiary (previously Caregivern In A
Resthome)
Sign Erector
Signwriter
Signwriters
Singer
○ Site Manager
○ Site Worker
○ Ski Instructor
 Skilled Animal and Horticultural Workers
Skydive Jump Master
○ Slaughterer
Small Engine Mechanic
Small Offset Printer
Smith City
Snowsport Instructor
Social and Welfare Professionals
Social Professionals
 Social Professionals nec
Social Science Researcher
Social Security Assessor

Social Worker	
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Social Workers	
Software and Applications Programmers	
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 Software Architect 	
Software Developer	
Software Developer	
Software EngineerSoftware Tester	
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Solicitor	
Solicitors	
○ Solid Plasterer	
Solutions Architect	
Song Writer	
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Sous Chef	
Special Care Worker	
Special Developer	
 Special Education Teachers 	
 Special Education Teachers nec 	
 Special Needs Occupational Therapist 	
Special Needs OT	
Special Needs Teacher	
Specialist Managers	
Specialist Managers nec	
Specialist Physician (General Medicine)	
Specialist Physicians	
 Speech Language Therapist 	
Sports Administrator	
 Sports and Personal Service Workers 	
Sports Centre Manager	
○ Sports Co-ordinator	
 Sports Coaches, Instructors and Officials 	
 Sports Development Officer 	
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	Storeman
	Storeman
Q	Storeperson
Q	Storepersons
Q	Storepersons
	Storepersons
	Stowage Contractor
	Street Vendor
	Street Vendors and Related Salespersons
	Streetsweeper Operator
Q	Structural Engineer
	Structural Steel and Welding Trades Workers
Q	Structural Steel Construction Workers
	Structural Steel Erector
\bigcirc	Student
\bigcirc	student
\bigcirc	Student - Best Pacific Institute Of Education.
	Student - Bible School
\bigcirc	Student - Home Schooled
	Student - Home Schooled
\bigcirc	Student - Language
\bigcirc	Student - Lost To Followup Student - Out Of Auckland
	Student - Overseas (Canada)
	Student - Overseas (Samoa)
	Student - Pharmaceutical
	Student (Biomedical Science)
	Student (Sport
\odot	Student / Part Time Nanny
\sim	Student And Part Time Supermarket Worker
\sim	Student And Youth Worker Student Counsellor
	Student Counsellor Student Home Schooled
	Student Midwife
	Student Nurse Student Nurse
\sim	Student Physiotherapist
\simeq	Student Pilot
	Student Thotassum Student Teacher
	Student Teacher
	student Wel Tech
	Student- Legal Research
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000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager
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000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker (Mental Health)
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000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker Support Worker (Mental Health) Surgeon Surgeon (General)

Surveying or Cartographic Technician
Surveyor
○ Surveyor's Assistant
 Surveyors and Spatial Scientists
 Sustainable Transport Coordinator
Swimming Pool Attendant
Swimming Coach or Instructor
Swimming Pool Construction
Switchboard Operator
Switchboard Operators
Systems Administrator
○ Systems Analyst
Systems AnalystTanker Driver
Tanker Driver Tannery Worker
Tannery Worker
Tattoo Artist
Taxation Accountant
Taxation Inspector
Taxi Driver
○ Taxidermist
TeacherTeacher
Leacher
Teacher - Reliever
Teacher - Reliver
Teacher (currently Not Working)
○ Teacher Aide
Teacher Of Adults
 Teacher of English to Speakers of Other Languages
Teacher Of Music
Teacher of the Hearing Impaired
Teacher of the Sight Impaired
Teacher- Correspondence School
Teacher/Instructor
Teachers of English to Speakers of Other Languages
Teachers! Aide
Teachers' Aide
Team Leader
Team Leader Of Club Active
○ Team Manager
 Tech Solutions Specialist
○ Technical Analyst ○
Technical Cable Jointer
Technical Coodinator
Technical Director
Technical Officer
Technical Sales Representatives
Technical Sales Representatives nec
Technical Writer
Technician
Technicians and Trades Workers
Technicians and Trades Workers nec
Telecommunications Cable Jointer
 Telecommunications Engineer
 Telecommunications Engineering Professionals
Telecommunications Field Engineer
Telecommunications Line Mechanic
Telecommunications Network Engineer
Telecommunications Network Planner
Telecommunications Technical Officer or
Technologist
Telecommunications Technical Specialists
Telecommunications Technician
Telecommunications Trades Workers
Telemarketer
Telemarketers
Telephone Betting Clerk
Telephonist - Call Centre
Television Equipment Operator
Television Journalist
Television Presenter
○ Teller
Tennis Coach

Territory Manager
Tertiary Education Teacher
 Tertiary student
Tertiary Student
Test EngineerTextile and Footwear Production Machine Operators
Textile and Footwear Production Machine Operators
Textile and Footwear Production Machine Operators
nec
 Textile Dyeing and Finishing Machine Operator
Textile Byeng and Finishing Machine Operator Textile, Clothing and Footwear Mechanic
Textile, Clothing and Footwear Trades Workers
Theatre Facilator
Theatre Facilitator
○ Theatre Nurse
○ Therapist
Therapy AideTherapy AssisstantThermoformer Operator
 Therapy Assisstant
Thermoformer Operator
Thoracic Medicine Specialist
Ticket Collector or Usher
Ticket Salespersons
Ticket Seller
Tiler
Timber and Wood Process Workers
O Toddler
○ Toddler
Todaler Tables Issue
Toolmaker
Toolmakers and Engineering Patternmakers
O Tour Guide
Tourism and Travel Advisers
○ Tourist
○ Tourist Guide
Tourist Information Officer
Tow Truck Driver
Town Planner
Tractor Mechanic
Trade Assistant
○ Tradesman
Traditional Chinese Medicine Practitioner
○ Traditional M
Train and Tram Drivers
Train Controller
Train Driver
○ Train Examiner
○ Trainee Mechanic
Training and Development Professional
 Training and Development Professionals
Training Coordinator
○ Trainor (ACC)
○ Tram Driver
Transfer Station Operator
Translator
 Transport and Despatch Clerks
Transport Company Manager
Transport Conductor
Transport Coordinator
Transport Engineer
Transport Manager
Transport Operations Inspector
Transport Services Manager
Transport Services ManagerTranz Rail
Travel Agency Manager
Travel Agency ManagerTravel Attendant
Travel Attendant
Travel Attendants
Travel Attendants nec
Travel Consultant
Travel Coordinator
○ Traveller
○ Tree Feller
○ Trekking Guide
○ Tree Feller○ Trekking Guide○ Tribunal Member

Trolley Collector	
Truancy Officer	
Truck Driver	
Truck Driver	
Truck Driver	
Truck DriverTruck Driver (General)Truck Driver (Stock)Truck Driver's Offsider	
Truck Driver (General)	
O Truck Driver (General)	
() Truck Driver (Stock)	
 Truck Driver's Offsider 	
Truck Driver's Offsider	
Truck Drivers	
Truck Mechanic	
Trucking Operator	
Trust Officer	
Turf Grower	
O Tull Glower	
Tutor	
Tutor Lecturer	
O TV Draduction	
O IV Production	
Tutor LecturerTV ProductionTypist	
Tyre Fitter	
O Tyre riccer	
Tyre Fitter	
Ucol Lecturer	
UN Consultant	
Under 5 Years	
O Un a manufact and	
Unemployed	
Unemployed - Visiting NZUnemployed But Part-time CUniversity Academic	
O Unomployed Put Part time C	loanor
O unemployed but Part-time C	leaner
() University Academic	
University Lecturer	
Offiversity Lecturer	
 University Lecturers and Tut 	ors
University Professor	
University Student	
 University Student, Engineer 	ina
University Tutor	9
Onliversity rutor	
○ Unknown	
O Unknown - Currently Pregna	nt
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Unknown - Not At School	
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Visual Arts and Crafts Professional
 Visual Arts and Crafts Professionals nec
Visual Merchandiser
○ Visual Merchandisers
Vocational Education Teachers (Aus) / Polytechnic
Teachers (NZ)
○ Voluntary Work
○ Volunteer
Volunteer At A Music Pre-School
Volunteer Driver (occasionally)
○ Volunteer Work In 3rd World Countries
 Volunteer Work In 3rd Worls Countries
○ Waiter
Waiters
Waitress
Wall and Floor Tiler
○ Wall and Floor Tilers
○ Ward Clerk
Warehouse Administrator
○ Warehouse Manager
Warehouse Night Shift Worker.
Warehouse Online Shopping Clerk
○ Warehouse Supervisor
Warehouse Worker
○ Waste Water Management
○ Waste Water Operator
 Waste Water or Water Plant Operator
Watch and Clock Maker and Repairer
Water Blaster
○ Water Inspector
○ Water Pump Worker
○ Water Tank Cleaner
Water Treatment Engineer
○ Waterside Worker
○ Weaving Machine Operator
○ Web Administrator
○ Web Designer
○ Web Developer
○ Webdesigner
Weed Sprayer
○ Weigh Bridge Tech
Weighbridge Operator
Weight Loss Consultant
○ Weightlifter
○ Welder
○ Welfare Centre Manager
○ Welfare Support Worker
○ Welfare Worker
 Welfare, Recreation and Community Arts Workers
○ Welllington Hospital
Wharf Worker
Whitewater Rafting Guide
○ Wholesaler
○ Window Cleaner
○ Wine Maker
Wine sales Worker
○ Wine Stewart
○ Winery Cellar Hand
○ Winery Worker
○ Wintec Student
○ WINZ Facilitator
women's Centre Co-oridnator
Wood and Wood Products Factory Worker
○ Wood Machinist
Wood Machinists and Other Wood Trades Workers
○ Wood Machinists and Other Wood Trades Workers nec
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Wood Processing Machine Operator
○ Wood Trades Workers
○ Wood Treater
Wood Turner
Woofer
<u> </u>

○ Wool Buyer○ Wool Classer○ Wool Handler○ Wool Technician
○ Word Processing Operator
Work Visa Holder
○ Workforce Planner
○ Working In Film Industry
Workplace Relations AdviserWorks At Abseilers
Works At Absellers Works At Swimming Pool
○ Works From Home
Works From Home - Motor Industry
○ Works In A Mashroom Firm
Works In A Mushroom Firm
○ Works In Sewers
Works Infrastructure
○ Works With Natural Medicines
○ Writer○ Writer (Library)
Yard Foreman
Yardsman
Yarn Carding and Spinning Machine Operator
○ Yoga Teacher
O Youth Worker
O Youth Worker
○ Zoo Ranger
◯ Zookeeper◯ Zoologist
U Zudiogist

 ○ 16 Month Old Child Job title 2 ○ A.I. Technician Abattoir Worker Aboriginal and Torres Strait Islander Education Aboriginal and Torres Strait Islander Health Worker O Abrasive Blaster ○ Absailer ○ Abseiler ACC Justice Centre ACC Justice Centre Accommodation and Hospitality Managers nec Accommodation Manager - Boarding House Accountant Accountant (General) Accountants, Auditors and Company Secretaries Accounting Clerk Accounting Clerks Accounting Clerks and Bookkeepers Accounts Accounts Administrator Accounts Administrator Accounts Administrator Accounts Clerk Accounts Manager Accounts Payable Administrator Actor Actors, Dancers and Other Entertainers O Actors, Dancers and Other Entertainers nec Actuaries, Mathematicians and Statisticians Actuary Actuary And Consultant Acupuncturist Admin Manager Admin Worker Administration Administration Manager Administration Manager Administrative Officer Administrator Administrator Administrator Administrator Gisborne Tatapouri Fishing Club Administrator.Owner Of Restaurant. Admissions Clerk Advertising O Advertising Agency Director Advertising and Marketing Professionals Advertising and Public Relations Manager Advertising and Sales Manager Advertising Manager Advertising Specialist Advertising, Public Relations and Sales Managers ○ Advisor Aeronautical Engineer ○ Aeroplane Pilot After School Care Aged and Disabled Carers Aged Care Worker Aged or Disabled Carer Agency Nurse Agri Business Consultant Agricultural and Forestry Scientists Agricultural and Horticultural Mobile Plant Operator Agricultural Chemical Consultant Agricultural Consultant Agricultural Contracting

Agricultural Engineer

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	Agricultural Scientist
	Agricultural Sprayer
	Agricultural Technician
	Agricultural Technicians
	Agricultural Worker
\circ	Agricultural, Forestry and Horticultural Plant
	Operators
\circ	Agricultural, Medical and Science Technicians
	Agriculture Advisor
	Agriculture Research
	Agronomist
	Aid Worker
	Aid worker Carpenter
	Air and Marine Transport Professionals
	Air Assistant
	Air Compressor Technician
	Air COnditioning / Mechanic
	Air Steward
	Air Stewardess
	Air Traffic Control Instructor
	Air Traffic Controller
	Air Traffic Controller
	Air Transport Professionals
	Air Transport Professionals nec
	Airconditioning and Mechanical Services Plumber
	Airconditioning and Refrigeration Mechanic
	Airconditioning and Refrigeration Mechanics
	Aircraft Baggage Handler and Airline Ground Crew
	Aircraft Engineer
	Aircraft Maintenance Engineer (Avionics)
	Aircraft Maintenance Engineer (Mechanical)
	Aircraft Maintenance Engineer (Structures)
	Aircraft Maintenance Engineers
	Aircraft Refueller
	Aircraft Technician
	Airline Manager
	Airport Staff Alarm, Security or Surveillance Monitor
	Aluminium Joiner
	Ambulance Driver
_	Ambulance Officer
	Ambulance Officers and Paramedics
	Ambulance Paramedic
_	Amusement Centre Manager
	Amusement, Fitness and Sports Centre Managers
	Anaesthetic Technician
	Anaesthetist
_	Anaesthetist
	Anaesthetists
_	Analyst
	Analyst Programmer
	Anatomist or Physiologist
	Anesthesiologist
Ŏ	Anesthetic Tech Niurse
Ō	Animal Attendants and Trainers
Ŏ	Animal Attendants and Trainers nec
Ó	Animal Attendants and Trainers, and Shearers
	Animal Carer
\circ	Animal Control
\circ	Animator
	Antique Dealer
	ANZ Bank
Ō	Apiarist
	Apparel Cutter
	Apple Packer
	Apple Picker
	Apple Thinner
	Applicance Works
	Apprentice Builder
	Apprentice Butcher
()	Apprentice Carpenter

Apprentice Electrician
Apprentice Motor Mechanic
Apprentice Panelbeater
O Apprentice Plumber
Apprentice Welder
Aquaculture Farmer
Aquaculture Farmers
Aquaculture Worker
Aquaculture Worker
Aquatic Engineer
Arborist
○ Archaeologist
Architect
Architects and Landscape Architects
Architects, Designers, Planners and Surveyors
Architectural Draftsperson
Architectural, Building and Surveying Technicians
 Architectural, Building and Surveying Technicians nec
↑ Archivist
•
Archivists, Curators and Records ManagersArmed Forces
Armoured Car Escort
Army
Army Corporal
Army Personnel
Art Director (Film, Television or Stage)
Art Teacher (Private Tuition)
Artist
Artist/Photographer
Artistic Director
Artistic Directors, and Media Producers and
Presenters
Arts Administrator or Manager
Arts and Media Professionals
Arts Professionals
Asbestos Labourer
Assembles Agriculture Machinery
○ Asset Manager
ASSISTANT ACCOUNTANT
Assistant Manager
Assistant Manager
Assistant Principal
Assistant Teacher
○ At home
oat Home Educarer
At home looking after children
At Home Mother
At home not looking after children
Attendance Officer
Attending Early Childhood Centre
Attending ECC
Attends ESOL Classes
Austinger
AuctioneerAuctioneers, and Stock and Station Agents
Audiologist
Audiologists Audiologists and Speech Pathologists/Therapists
Audiovisual Technison
Auditor
Auditor
Auditors, Company Secretaries and Corporate
Treasurers
○ Author
Authors, and Book and Script Editors
Auto Dismantler
Auto Technician
○ Autoglazier
Automobile Drivers
Automobile Drivers nec
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Automotive and Engineering Trades Workers
Automotive Electrician
Automotive Electricians
 Automotive Electricians and Mechanics
Automotive Parts Salesperson
 Automotive Technician
○ AV Installer
Aviation
Avionics Technician
Avocado Orchadist
Baby
Backer
Backhoe Operator
O Baker
BakerBakers and Pastrycooks
Bakery Assistant
Bakery Manager
O Bakery Staff
Baking Factory Worker
Banardos In House Child Minder
Bank Call Centre Worker
◯ Bank Clerk
Bank Employee And Student (Finance)
○ Bank Manager
○ Bank Manager
Bank Officer
Bank Teller
Bank Worker
O Bank Workers
Banker
Banking Call Centre Worker
Bar Attendant
Bar Attendants and Baristas
Bar Manager
Bar Useful or Busser
Barber
○ Barista
Barrister
Barristers
○ Bartender
Beauty Therapist
Beauty Therapists
Bed and Breakfast Operator
O Bed Maker
O Bee Keeper
Beef Cattle Farm Worker
Beef Cattle Farmer
○ Beekeeper
Beer Tap Installer
Beetham Rest Home Manager
Behaviour Support Specialist
Beneficiary
Berry Farmer
Betting Agency Counter Clerk
Betting Agency Manager
Betting Clerks
Betting Clerks nec
Bicycle Mechanic
O Biinder
○ Biinder○ Binder
Binder and Finisher
Bio Medical Technician
O Dio Medical Technician
Biochemist
O Biologist (General)
O Biomedical Engineer
Biosecurity Officer
Biotechnologist
O Bird Handler
○ Blacksmith
 Boarding Kennel or Cattery Operator
○ Boat Builder

Boat Builder and Repairer
Boat Builders and Shipwrights
○ Boat Skipper
○ Boat Worker
O Body Artist
O Boiler Assistant
O Boiler or Engine Operator
○ Boilermaker
O Bomb Disposal Person
O Bone Meal Worker
O Bone Meat Worker
O Book or Script Editor
O Bookkeeper
O Bookkeepers
O Bookmaker
O Bookmaker's Clerk
O Bookshop Manager
Bookshop Owner
Bookshop Sales Assistant
O Botanist
O Bouncer
Branch Manager
Branch Manager
Branch Manager (ACC)
Brewery Worker
Bricklayer
Bricklayer
Bricklayers and Stonemasons
Broadcast Transmitter Operator
Builder
Builder
© Builder
Builder (self Employed)
Builder And Motorhome Maintenance
Builder Apprentice
O Builder Apprentice
O Builder's Labourer
Builder/Hammerhand
Builder/Hamnerhand
 Building and Engineering Technicians
 Building and Engineering Technicians nec
 Building and Plumbing Labourers
Building Associate
Building Control Officer
O Building Designer
Building Inspector
O Building Insulation Installer
Building Supervisor
 Bulk Materials Handling Plant Operator
O Bulldozer Operator
O Bungy Jump Master
Bus and Coach Drivers
Bus Driver
Business
Business Administration Manager
Business Analyst
Business and Systems Analysts, and Programmers
O Business Broker
Business Coach
Business Consultant
Business Consultant
O Business Director
Business Intelligence Consultant
Business Machine Mechanic
Business Manager
Business Owner
Business Owner-Takeaway
Business Professional
Business, Human Resource and Marketing Professional
© Businessman
O Butcher

O Putcher Appropries
O Butcher Apprentice
Butcher or Smallgoods Maker
Butchery Assistant
○ Cabinetmaker
○ Cabinetmakers
Cabler (Data and Telecommunications)
Caf? Worker
 Cafe and Restaurant Managers
○ Cafe Manager
○ Cafe or Restaurant Manager
○ Cafe Owner
Cafe Worker
Cafe Workers
○ Cafe Workers
○ Calf Rearer
 Call or Contact Centre and Customer Service
Managers
Call or Contact Centre Information Clerks
Call or Contact Centre Manager
Call or Contact Centre Operator
 Call or Contact Centre Team Leader
 Call or Contact Centre Workers
Camera Operator (Film, Television or Video)
○ Camper
Camper Charater
○ Canning Operator
Canvas and Leather Goods Makers
Canvas Goods Maker
O Car Dealer
O Car Detailer
O Car Detailers
○ Car Groomer
○ Car groomer
○ Car Painter
O Car Park Attendant
Car Parts Salesperson
Carraits Salesperson
Caravan Park and Camping Ground Manager
 Caravan Park and Camping Ground Managers
 Caravan Park and Camping Ground Owner
O Cardiac Technician
Cardiologist
cardiology Registrar
Cardiothoracic Surgeon
○ Care Assistant
Care Giver
O Careers Advisor
O Careers Counsellor
○ Caregiver
○ Caregiver (Rest Home)
○ Caregiver??
Caregiver/Cleaner
Carers and Aides
○ Caretaker
CaretakerCaretakers
○ Caretaker
CaretakerCaretakersCargo Manager
CaretakerCaretakersCargo ManagerCarpenter
CaretakerCaretakersCargo ManagerCarpenterCarpenter and Joiner
 Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner
 Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer
 Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer
 Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer
 Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Casino Worker
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder Categories Manager
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder
Caretaker Caretakers Cargo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet/Vinyl Layer Cartographer Cartographer Carton Maker Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder Categories Manager

Catering Student
○ Cattle Farmer
○ ceiling Installer
○ Celebrant
 Cement and Concrete Plant Worker
 Cement Production Plant Operator
○ CEO
○ Ceramicist
○ Chaplain
○ Charge Nurse
Charity Administrator
Charter and Tour Bus Driver
Chartered Director / Consultant
Chauffeur
Checkout Operators and Office Cashiers
Checkout Operators and Office Cashiers
Checkout Operators and Office Cashiers
Checkout Supervisor
○ Chef
○ Chef
○ Chef Student
○ Chefs
○ Chefs Course
○ Chelsea House
 Chemical and Materials Engineers
Chemical Engineer
 Chemical Plant Operator
Chemical Plant Worker
O Chemical Processor
Chemical Production Machine Operator
Chemical, Gas, Petroleum and Power Generation
Plant Operators
○ Chemist
Chemistry Technician
Chemists, and Food and Wine Scientists
Chicken Farmer
Chief Engineer
Chief Executive
Chief Executive or Managing Director
Chief Executives and Managing Directors
Chief Executives, General Managers and Legislators
Chief Executives, General Managers and Legislators
Chief Information Officer
○ Child
Child
○ Child - non-resident
○ Child 5-15
○ Child At Home Only
Child Care Centre Manager
Child Care Centre Managers
Child Care Worker
Child Care Worker (Home Based)
Child Care Worker (Home Based)Child Carers
Child Care Worker (Home Based)Child CarersChild Carers
Child Care Worker (Home Based)Child CarersChild CarersChild Minder
 Child Care Worker (Home Based) Child Carers Child Carers Child Minder Child or Youth Residential Care Assistant
 Child Care Worker (Home Based) Child Carers Child Minder Child or Youth Residential Care Assistant Child Support Officer
 Child Care Worker (Home Based) Child Carers Child Minder Child or Youth Residential Care Assistant Child Support Officer Child under 16
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chocolate Packer
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chocolate Packer ○ Church Worker
 ○ Child Care Worker (Home Based) ○ Child Carers ○ Child Minder ○ Child or Youth Residential Care Assistant ○ Child Support Officer ○ Child under 16 ○ Child under 5 ○ Child under 5 Attends Preschool ○ Childcare Teacher ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chocolate Packer

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○ Civil Celebrant
Civil Engineer
○ Civil Engineering Draftsperson
 Civil Engineering Draftspersons and Technicians
○ Civil Engineering Professionals
○ Civil Engineering Technician
○ Civil Servant
O CIVII SCIVUIL
Classified Advertising Clerk
Clay Processing Factory Worker
Clay Processing ractory Worker
 Clay Products Machine Operator
Clay, Concrete, Glass and Stone Processing Machine
Operators
Clay, Concrete, Glass and Stone Processing Machine
Operators nec
○ Cleaner
Cleaner
Cicurci
Cleaner
Cleaner
Clearlei
Cleaner
○ Cleaner And Nanny
○ Cleaner/caretaker
 Cleaners and Laundry Workers
 Cleaners and Laundry Workers
○ Cleaners nec
Cleaning Company Manager
Cleaning Company Manager
Clerical and Administrative Workers nec
Clerical and Office Support Worker
Clerical and Office Support Worker
 Clerical and Office Support Workers
 Clerical and Office Support Workers nec
○ Clerk
○ Clerk of Court
 Clinical And Corporate Psychologist
O Cililical And Corporate 1 Sychologist
O Clinical Coder
Clinical Nurse
○ Clinical Oncologist
Clinical Baychologist
Clinical Psychologist
○ Clinical Psychologist
○ Clothing Designer
Clothing Patternmaker
 Clothing Trades Workers
Clothing Trades Workers nec
Clothing trades workers her
○ Co-Director
Co-ordinator Brand
○ Co-ordinator Brand
○ Co-ordinator Brand
Co-ordinator Brand
○ Coach Builder
Coach Painter
○ Coal Miner
Coding Clerk
○ Coldshelf Assistant
Coldshelf Assistant
○ College Student
○ Comedian
Commercial Cleaner
○ Commercial Cleaners
Commercial Designer
Commercial Designer
Commercial Diver
Commercial fisherman
○ Commercial Housekeeper
○ Commercial Manager
Commissioned Defence Force Officer
Commissioned Fire Officer
ullet
 Commissioned Officers (Management)
Commissioned Police Officer
○ Commodities Trader
Communications Advisor
() COMMUNICATIONS AGVISOR
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Communications Director
Communications Director

Communications Technician
○ Community
 Community and Personal Service Workers
Community Arts Worker
community Support Worker
 Community Support Worker
Community Worker
Companion Driving Business
Company Director
O Company Secretary
Complementary Health Therapists
Complementary Health Therapists nec
Compliance Officer
Composer
Computer Analyst
Computer Analyst
Computer Engineer
Computer Network and Systems Engineer
Computer Network Professionals
O Computer Operator
O Computer Programmer
Computer Technician
 Concrete Batching Plant Operator
 Concrete Products Machine Operator
○ Concrete Pump Driver
 Concrete Pump Operator
Concreter
○ Concreters
Confectionery Maker
Conference and Event Organiser
Conference and Event Organisers
O Conservation Officer
O Conservator
Construction and Mining Labourers
Construction Estimator
Construction Manager
Construction Project Manager
Construction Rigger
Construction Trades Worker
Construction Worker
Construction, Distribution and Production Managers
Consultant Engineer
Consultant Engineer
Oconsultant Physician
O Contact Centre
Contact Centre Manager
○ Container Filler
Contract Administrator
○ Contract Worker
 Contract, Program and Project Administrators
 Contract, Program and Project Administrators
○ Contractor
Contractor nfd
○ Controller
○ Conveyancer
 Conveyancers and Legal Executives
○ Cook
O Cookery Student
O Cooks
○ Cool Storage Worker
○ Coordinator
Coordinator - About Kids
Copywriter
Corporate General Manager
Corporate Services Manager
Corporate Services Managers
Corporate Trainer
Corporate Treasurer
Corrections Officer
O Cosmetic Physician
Cosmetic ResearcherCosmetology

○ Cost Clerk
○ Cotton Grower
○ Council Worker
○ Counsellors
○ Counsellors nec
Countdown Supervisor
○ Courier
Couriers and Postal Deliverers
O Court and Legal Clerks
Court Collections Officer
Court Registry Officer
Court Worker
CPH Dialysis Unit
○ Crane Chaser
Crane, Hoist and Lift Operators
Crane, Hoist or Lift Operator
Creative Director
Credit and Loans Officers (Aus)/Finance Clerks (NZ)
Credit Controller
Credit or Loans Officer
Crop Farm Worker
Crop Farm Workers nec
Crop Farmer
Crop Farmer
Crop Farmers nec
Crossing Supervisor
Crowd Controller
Cruise Ship Crew
Currently Not Working
Currently Not Working - Pregnant
Currently Unemployed
○ Custodian
 Customer Business Centre Consultant
 Customer Service Manager
 Customer Service Representative
○ Customer Services
Customs Officer
○ Cycalist
Cycle Courier
Cycling Coach
Oairy Cattle Farm Worker
O Dairy Cattle Farm Worker - Share Holder
O Dairy Cattle Farmer
O Dairy Factory Worker
O Dairy Farm Worker
O Dairy Farm Worker
Dairy Farm Worker
Dairy Farmer
Dairy Farmer
O Dairy Farmer
Dairy Farmer (Carterton)
Dairy Operator
Dairy Owner
Dairy Products Maker
O Dairy Retail Assistant
O Dairy Retail Assistant
O Dance Teacher (Private Tuition)
O Dancer or Choreographer
O Data Entry From Home
O Data Entry Operator
Data Processing Analyst
Database Administrator
 Database and Systems Administrators, and ICT
Security Specialists
O Database and Systems Administrators, and ICT
Security Specialists
O Day Care Centre Worker
O Daycare Teacher
O Daycare Worker
O Debt Collector
O Debt Collectors

O Deck and Fishing Hands	
O Deck Hand	
O Deep Fryer	
O Deer Farmer	
Defence Force Member - Other RanksDefence Force Members - Other Ranks	
 Defence Force Members, Fire Fighters and Police 	
Defence Force Senior Officer	
O Delivery Driver	
O Delivery Drivers	
O Delivery Drivers	
O Dementia Worker	
O Demolition Labourer	
Dental AssistantDental Assistants	
Dental Assistants Dental Hygienist	
Dental Hygienists, Technicians and Therapists	
O Dental Practitioner	
Dental Prosthetist	
Dental Specialist	
O Dental Technician	
Dental Technician Dental Therepist	
Dental TherapistDentist	
Department Director General	
Department Of Corrections	
Oppt Of Justice	
O Deputy Principal	
O Deputy Registrar	
O Dermatologist	
DeseasedDesign Consultant	
Design ConsultantDesign, Engineering, Science and Transport	
Professional	
○ Designer	
O Desk Officer	
O Desktop Publisher	
Despatching and Receiving Clerk	
O Detailer	
DetectiveDeveloper	
Developer Programmer	
Diagnostic and Interventional Radiologist	
 Diary Farmer 	
Diesel Motor Mechanic	
ODietitian	
O Different Jobs	
Digger DriverDigital Consultant	
Digital Consultant Digital Plate Marker	
O Diplomat	
O Director	
Director (Film, Television, Radio or Stage)	
Director (Food Safety And Quality)	
O Director of Photography	
Disabilities Services OfficerDish Washer	
DistributionDispatch	
Dispatcher In A Factory	
 Dispensing Optician 	
Distribution	
O District Manager	
O District Nurse	
District NurseDistrict Nurse - Keri Keri	
District Nurse - Kerl Kerl Diver	
Diversional Therapist	
Diversional Therapists	
Diving Instructor (Open Water)	
Doctor	
 Doctor-Retired 	

O Dog Breeder
O Dog Handler or Trainer
O Dog or Horse Racing Official
○ Domestic Cleaner
Domestic Cleaners
Domestic Housekeeper
○ Dominatrix
O Door And Window Fitter
O Door-to-door Salesperson
O Doorperson or Luggage Porter
O Douglas Park School
O Draft Person
O Draftsman
O Drain Layer
O Drain Layer
O Drainage Contractor
O Drainage Engineer
O Drainage Technician
O Drainage, Sewerage and Stormwater Labourer
O Drainlayer (NZ)
O Drama Teacher (Private Tuition)
O Draughtsman
Dressmaker or Tailor
O Driller
O Driller's Assistant
O Drillers, Miners and Shot Firers
O Driver
O Driver / Road Inspector
O Driving Instructor
O Driving Instructors
O Drug and Alcohol Counsellor
O Drycleaner
O Duty Cliinician
Outy Manager
Early Childhood (Pre-primary School) Teacher
○ Early Childhood (Pre-primary School) Teacher
Reliever
Early Childhood (Pre-primary School) Teachers
Early Childhood Centre Leader
○ Earth Rig Digger
Earth Science Technician
Earthmoving Labourer
Earthmoving Plant Operator
Earthmoving Plant Operator (General)
Earthwork Contractor
C ECC Teacher
C ECEC Teacher
C ECEC Worker
○ ECG Technician
○ Ecologist
© Economist
© Economists
○ Editor
Education Adviser
Education Advisers and Reviewers
Education Aide
Education Aides
Education Consultant
Education Facilitator At NZQA
Education Managers necEducation Professional
Education Reviewer
Education Support Worker
Education Team Leader
Education, Health and Welfare Services Managers
Educational Consultant
Educational Psychologist
© Educator
○ Electorate Officer
Electrical Distribution Trades Workers
Electrical Engineer

ELECTRICAL ENGINEER	
 Electrical Engineering Draftsperson 	
 Electrical Engineering Draftspersons and 	
Technicians	
Electrical Engineering Technician	
 Electrical Engineers 	
 Electrical Inspector 	
Electrical Line Mechanic	
Electrical Maintainer	
	cictont
○ Electrical or Telecommunications Trades As	ssistant
 Electrical Wholesaler 	
Electrician	
Electrician (General)	
Electrician (Special Class)	
Electricians	
 Electronic Assistant 	
 Electronic Engineering Draftsperson 	
 Electronic Engineering Draftspersons and 	
Technicians	
Electronic Engineering Technician	
 Electronic Equipment Trades Worker 	
 Electronic Instrument Trades Worker (Gene 	eral)
 Electronic Instrument Trades Worker (Spec 	
Electronics and Telecommunications Trade	
	3 WUIKEIS
Electronics Engineer	
 Electronics Engineers 	
Electronics Trades Workers	
Electroplater	
 Electrotechnology and Telecommunications 	s Trados
	s iraues
Workers	
 Emergency Management Technician 	
 Emergency Medicine Specialist 	
 Emergency Service Worker 	
○ Employee	
Employment Advisor	
 Endocrinologist 	
EndocrinologistEnergy Centre Operator	
EndocrinologistEnergy Centre OperatorEngineer	
EndocrinologistEnergy Centre OperatorEngineerengineer	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER 	
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 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Manager Engineering Manager Engineering Managers 	
 ○ Endocrinologist ○ Energy Centre Operator ○ Engineer ○ Engineer Nec ○ Engineering Manager ○ ENGINEERING MANAGER ○ Engineering Manager ○ Engineering Manager ○ Engineering Managers ○ Engineering Patternmaker 	
 ○ Endocrinologist ○ Energy Centre Operator ○ Engineer ○ engineer ○ Engineer Nec ○ Engineering Manager ○ ENGINEERING MANAGER ○ Engineering Manager ○ Engineering Managers ○ Engineering Patternmaker ○ Engineering Production Systems Worker 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Manager Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Manager Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers 	
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 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Manager Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Consultant 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering Technologist Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Engineer 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Engineer Environmental Health Officer 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environmental Consultant Environmental Consultant Environmental Engineer Environmental Health Officer Environmental Manager 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Engineer Environmental Health Officer 	
 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environmental Consultant Environmental Consultant Environmental Engineer Environmental Health Officer Environmental Manager Environmental Planner 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Managers Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Professionals Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Engineer Environmental Health Officer Environmental Manager Environmental Planner Environmental Research Scientist 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Professionals Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse Entertainer or Variety Artist Entrepreneur Environment Environmental Consultant Environmental Engineer Environmental Health Officer Environmental Manager Environmental Research Scientist Environmental Scientist 	
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\sim	Excavator Operator
\cup	Exchange Student
\circ	Executive Assisstant
\circ	Exercise Physiologist
Ō	Exhaust and Muffler Fitter
Ō	Exporting Cattle
\bigcirc	External Auditor
Ŏ	Eve Surgeon
Ŏ	Eye Surgeon Ezibuy Wellington
Ŏ	Fabric and Textile Factory Worker
	Fabrication Engineering Trades Worker
	Fabricator Installer
Ŏ	Facilitator
Ŏ	Facilities Administrator
Ŏ	Facilities Advisor
	Facilities Manager
	Factory Hand Fibreglass Moulding
Ŏ	Factory Inghams
	Factory Manager
	Factory Process Worker
Ŏ	Factory Process Workers nec
	Factory Supervisor
	Factory Worker
	Factory Worker
Ŏ	Factory Worker
Ŏ	Factory Worker
Ŏ	Factory Worker - Mussels
	Factory Worker (food)
	Faculty Head
	Family and Marriage Counsellor
	Family Business Employee
Ō	Family Bussiness
	Family Day Care Worker
	Family Support Worker
\circ	Family Therapist
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	Farm Advisor Farm Cadet
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○ Field Crop
○ Field Crop
Field Crop Farm Worker
Field Ranger And Dog Handlerfield Scientist
ield Scientist
Filinance Manager
Filing and Registry Clerks
Filing or Registry Clerk
Filling Assistant - Supermarket
Film and Video Editor
in Producer
Film Producer/Zumba Instructor
Film, Television, Radio and Stage Directors
Film, Television, Radio and Stage Directors necFinance
FINANCE ACCOUNTANT
Finance And Permit Officer
○ Finance Broker
Finance Manager
○ Finance Manager
○ Finance Managers
Financial Advisor
Financial and Insurance Clerks
Financial AuditorFinancial Brokers
Financial Brokers and Dealers, and Investment
Advisers
○ Financial Brokers nec
Financial Clerk
Financial Controller
Financial Dealers
Financial Dealers nec
Financial Institution Branch ManagerFinancial Investment Adviser
Financial Investment Advisers and Managers
Financial Investment Manager
Financial Market Dealer
Fire and Emergency Workers
○ Fire Fighter
Fire Fighter
Fire Protection Equipment Technician
First Aid TrainerFish And Chips Worker
Fish Factory Worker
Fish N Chip Shop
Fisheries Officer
Fishery Worker
Fishing Charter
Fishing Guide
Fishing Hand
Fitness Centre ManagerFitness Instructor
Fitness Instructors
Fitter (General)
Fitter and Turner
Fitter-Welder
○ Fleet Manager
Flight Attendant
Flight Attendant
Flight Attendant Supervisor
Flock CaregiverFloor Finisher
Floor Finishers
Floor Finishers and Painting Trades Workers
○ Floor Layer
Florist
Florists
Flower Grower
○ flower Packer

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FonterraFood and Drink Factory Workers	
From and Drink Factory Workers	
Food and Drink Factory Workers nec	
Food Chemist	
Food Delivery	
Food Factory Worker	
Food Handler	
Food Handler	
Food Preparation Assistant	
Food Preparation AssistantsFood Process Workers	
Food Process Workers	
Food Safety Officer	
Food Services Manager	
Food Techician	
Food Technician	
Food Technologist	
Food Trades Assistants	
Food Trades Assistants	
Cond Trades Workers	
Food Trades Workers	
Food Trades Workers	
Food Truck Operator	
Food Worker	
Food Worker At McDonalds (Clendon))
Footballer	
Footwear Factory Worker	
 Footwear Production Machine Operat 	or
Force Mechanic	
Foreign Exchange Officer	
Foreign Worker	
Foreman	
Forest Scientist	
Forestry Consultant	
Forestry Worker	
Forestry, Logging Worker	
Forklift Driver	
Forklift Driver	
O Forklift Operator	
Forklift Operator ENZA	
Foster Parent	
Foundry Worker	
Free Lance Photographer / Writer	
Freelance Editor	
Freelance Journalist Freelance Work	
Freelance Work	
Freelance Writer - Works From Home	
Freezing Worker	
Freezing Worker/Processor	
Freight and Furniture Handlers	
Freight Handler (Rail or Road)	
 Freight Handlers and Shelf Fillers 	
 Fruit and Vegetable Factory Worker 	
 Fruit and Vegetable Packer 	
Fruit or Nut Farm Worker	
Fruit or Nut Grower	
Fruit or Nut Picker	
○ Fruit or Nut Picker○ Fruit Packer	
Full Time Mother	
Fulton Hogan - Sewage Contractor	
○ Fund Manager	
Funeral Director	
Funeral Workers	
Funeral Workers nec	
Furniture Finisher	
C Furniture Maker	
Furniture MakerFurniture RemovalistFurniture Remover	
C Furniture Removar	
O Furniture Remover	
Furniture Restorer	
O Futures Trader	
() Gallory or Musoum Curator	
○ Gallery or Museum Curator○ Gallery or Museum Guide	

Gallery or Museum Technician	
 Gallery, Library and Museum Technicians 	
\bigcirc Gallery, Museum and Tour Guides	
○ Game Controller	
○ Gaming Worker	
Gaming Workers	
 Garden and Nursery Labourer 	
Garden Labourer	
igcirc gardener	
Gardener (General)	
Gardeners	
○ Gardeners	
Gas or Petroleum Operator	
Gasfitter	
○ Gastroenterologist	
General Clerical Workers	
○ General Clerk	
○ General Clerks	
○ General Clerks	
General Dental Practice; Clinical Director Max	(IIIO
Facial Unit	
○ General Manager	
 General Medical Practitioner 	
 General Pactitioner - Locum 	
General Practice (Doctor)	
 General Practitioner 	
 General Practitioners and Resident Medical O 	fficers
General Worker	
○ Geologist	
Geologist Engineer	
 Geologists, Geophysicists and Hydrogeologis 	ts
Geophysicist	
Geotechnical Engineer	
Geothermal Maintenance Technician	
○ Gib Fixer	
Glass Blower	
Glass Processing Worker	
Glass Production Machine Operator	
Glazier	
○ Glaziers	
○ Glaziers ○ Glaziers, Plasterers and Tilers	
Goat Farmer	
○ Golfer	
○ Government Employee	
O Government Service	
○ Grader Operator	
Grading Supervisor (Food Handler)	
Grain Mill Worker	
○ Grape Grower	
 Graphic and Web Designers, and Illustrators 	
Graphic Arts Worker	
 Graphic Designer 	
 Graphic Pre-press Trades Worker 	
 Graphic Pre-press Trades Workers 	
Greenkeeper	
Grocery Store Manager	
Grocery Store Supervisor	
○ Groundsman	
○ Grower Liaison	
Guidance Counsellor	
O Gunsmith	
Gym Equipment Fixer	
Gym Instructor	
Gymnastics Coach or Instructor	
Haematologist Hair Pressing Teacher	
Hair Dressing Teacher	
Hair Dressing TeacherHair or Beauty Salon Assistant	
Hair Dressing TeacherHair or Beauty Salon AssistantHair or Beauty Salon Manager	
Hair Dressing TeacherHair or Beauty Salon Assistant	

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Hairdresser (home-based)	
○ Hairdressers	
Hairdressers	
Handyman	
Handyperson	
○ Handypersons	
Harcourts	
Hardware Technician	
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O Head Nurse	
Health And Safetey	
Health And Safety	
Health And Saftey	
Health And Saftey Co-ordinator	
Health And Welfare Coodinator	
Health and Welfare Services Managers	
 Health and Welfare Services Managers nec 	
 Health and Welfare Support Worker 	
Health and Welfare Support Workers	
Health Assistant	
Health Care Assistant	
 Health Care Assistant 	
 Health Diagnostic and Promotion Professions 	als
Health Diagnostic and Promotion Professional	
Health Information Manager	J.5 1.00
Health Meciation Packing	
 Health Practice Manager 	
Health Professional	
Health Promotion Officer	
Health Services	
Health Services Manager	
 Health Therapy Professionals 	
Health Worker	
Health Worker	
Healthcare - Caregiver	
Healthcare Staff	
 Healthcare Worker 	
Healthline Nurse (Call Centre)	
Helicopter Pilot	
Herald Distributor	
Herbalist	
Herbalist (Western)	
Herd Tester	
HG Group Ltd	
Hide and Skin Processing Machine Operator	
Hide and Skin Processing Worker	
 High School PE Teacher 	
High School Student	
 High School Teacher 	
◯ Hire A Hubby	
○ Historian	
Holiday Park Owner	
 Holiday Programme Worker 	
Home Care Assistant	
Home Carer For Her Parents	
•	
O Home Duty	
Home Econmics Teacher	
Home Executive	
○ Home Help	
Home Improvement Installer	
Home Kill Butcher	
 Home Maintenance Contractor 	
Home Teaching	
Homebased Childcare	
Homebased Childcare	
<u>~</u>	
O Homecare Assistant	
○ Homemaker	
Homemaker Painting	
Homestay Owner/Operator	
Homoeopath	
O Horse Breeder	
○ Horse Dentist	

Horse Rider	
Horse Riding Coach or Instructor	
Horse Trainer	
 Horticultural Nursery Assistant 	
 Horticultural Trades Worker 	
Horticulturalist	
Horticulture Worker	
O Horticulturist	
 Hospital Laboratory Technician 	
Hospital Nurse	
Hospital Orderly	
Hospital Pharmacist	
Hospital Receptionist	
Hospital Volunteer Worker	
O Hospital Worker	
Hospitality Worker	
Hospitality Workers	
Hospitality Workers nec	
 Hospitality, Retail and Service Management 	gers
O Hospitality, Retail and Service Manage	
Hostel Matron	gers nee
O Hastal Barrat	
O Hostel Parent	
 Hotel and Motel Managers 	
 Hotel or Motel Manager 	
Hotel or Motel Receptionist	
Hotel Service Manager	
Hotel Service Managers	
O Hotel Worker	
Hotel Worker	
○ Hotelier	
House Husband	
House Painter	
O House Wife	
○ Housekeeper	
O Havaalaaaaa	
Housekeepers	
Housekeeping Manager	
Housekeeping ManagerHousewife	
○ Housewife	ılance
HousewifeHousewife Occasionally Drives Ambu	
HousewifeHousewife Occasionally Drives AmbuHousewife, Previously Lab Technician	
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Housewife Housewife Occasionally Drives Ambu Housewife, Previously Lab Technicial Housing Inspector HR Advisor HR Manager Human Resource Adviser Human Resource Manager Human Resource Manager Human Resource Managers Human Resource Professional Human Resources Clerk Human Resources Clerks Human Resource Fitter Human Resources Clerks Human Resources Clerks Human Resource Ranagers Human Resource Manager Human Reso	n In India

○ ICT Quality Assurance Engineer○ ICT Sales Assistant	
O ICT Sales Assistants	
○ ICT Sales Professionals	
○ ICT Sales Representative	
 ICT Security Specialist 	
 ICT Support and Test Engineers 	
○ ICT Support and Test Engineers nec	
ICT Support Engineer	
ICT Support Technicians nec	
O ICT Systems Test Engineer	
O ICT Technician	
O ICT Trainer	
O ICT Trainers	
○ ICU Non Clinical	
○ Illustrator	
Immigration Consultant	
○ Immigration Officer	
Implementation Manager	
○ Import-Export Clerk	
Import Export Glerk Importer or Exporter	
Importers, Exporters and Wholesalers	
Olymprovement Officer	
In mental health facility	
O In prison	
O In-home Care	
Independent Midwife	
 Indigenous Health Workers 	
 Industrial Designer 	
 Industrial Electrician 	
Industrial Engineer	
Industrial Operation Manager	
○ Industrial Pharmacist	
Industrial Spraypainter	
Industrial Spraypainters	
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 Intermediate School Student
Intermediate School Teacher
O Internal Auditor
Internal Medicine Specialists necInternational Aid
International AidInternational Marketing Director
International Student
Interpreter
Invalid Beneficiary
Inventory Officer
Inventory Purchaser
○ Investigator
O Investment Advisor
O IRD Coach
○ Ironer or Presser○ Irrigation Engineer
Irrigation Engineer Irrigation Installer
IT Administrator
○ IT Consultant
IT Consultant
○ It Manager
○ IT Manager
○ IT Professional
IT Professional Currently Not Working
○ IT Project Manager○ IT Sales
○ IT Specialist
IT Support Management
○ IT Technician
O IT Worker
○ IT Worker
○ ITG Group
○ Janitor○ Jeweller
○ Jeweller
○ Jewellers
 Jewellery Designer
○ Jewellery Designer○ Jewellery Sales Assistant
○ Jewellery Designer○ Jewellery Sales Assistant○ JNL
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey
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 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist
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 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist Journalists and Other Writers Journalists and Other Writers nec Judge
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist Journalists and Other Writers Journalists and Other Writers nec Judge Judicial and Other Legal Professionals
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist Journalists and Other Writers Journalists and Other Writers nec Judge Judicial and Other Legal Professionals Judicial and Other Legal Professionals nec
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) Kumara Farmer
) Kumara Processor
) Lab Technician - Orthodontist
) Lab Worker
) Laboratory Manager
	Laboratory Receptionist
) Laboratory Technician) Laboratory Worker
) Laboratory Worker
) Laboratory Worker/Chemical Engineer
) Labourer
) Labourer
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\sim) Lagger) Land Economist
\geq) Land Economists and Valuers
) Land Surveyor
) Landscape
) Landscape Architect
) Landscape Designer
) Landscape Designer) Landscape Gardener
) Laundress
) Laundromat Worker
	Laundry Assistant
	Laundry Assistant
	Laundry Stylist
	Laundry Worker
	Laundry Worker (General)
	Laundry Workers
) Law Clerk
\subseteq) Lawnmowing Operator
) Lawyer
) Lead Lighter) Leaflet or Newspaper Deliverer
) Leaflet or Newspaper Deliverer
	Learning And Development Co-ordinator
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) Learning Assistant
) Learning Assistant) Leather Goods Maker
) Learning Assistant
) Learning Assistant) Leather Goods Maker
) Learning Assistant) Leather Goods Maker) Lecturer) Legal Executive
) Learning Assistant) Leather Goods Maker) Lecturer) Legal Executive) Legal Professional
) Learning Assistant) Leather Goods Maker) Lecturer) Legal Executive) Legal Professional) Legal Secretary
	 Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals
	 Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals
	 Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators
	 Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators nec
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	Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators nec Liaison Officer Librarian
	Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators nec Liaison Officer Librarian Librarians Library Assistant
	Learning Assistant Leather Goods Maker Lecturer Legal Executive Legal Professional Legal Secretary Legal, Social and Welfare Professionals Legal, Social and Welfare Professionals Legislators Legislators Legislators nec Liaison Officer Librarian Librarians Library Assistant Library Assistants
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Maritime Brokerage
Market Garden Worker
○ Market Gardener
Market Research Analyst
Marketer
○ Marketing Manager
Marketing Specialist
Marketing Specialist
Marketing/customer Services
Martial Arts Instructer
Massage Therapist
Massage Therapists
○ Master Fisher
Masters Student
○ Mat Maker
Materials Engineer
Materials Recycler
Maternity Leave
Mathematician
Meat Boner and Slicer
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Meat Factory Worker
Meat Inspector
Meat Packer
Meat Process Worker
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Meat Worker
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Mechanic / Soldier
○ Mechanic Team Leader
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Metal Engineering Process Workers
Metal Fabricator
Metal Fitters and Machinists
Metal Machinists nec
Metal Machinist (First Class)
Metal PolisherMetal Worker
Metallurgical or Materials Technician
✓ Metallurgist✓ Meteorologist
Meter Reader
○ Microbiologist
Middle School Teachers (Aus) / Intermediate School
Teachers (NZ)
Midwife
Midwifery and Nursing Professionals
Midwives
Military Rifleman
Milk Harvester / Calve Rearer
Milk Tanker Driver
○ Milker
Milking Machine Fitter And Water Pump Technician
Mine Deputy
Mine Supervisor
Miner
Mining Engineer (excluding Petroleum)
Mining Support Worker
Minister of Religion
Ministerial Lead Advisor
Ministers of Religion
Ministry Of Education
Ministry Of Education
Ministry Of Justice
Ministry Of Justice Worker
Ministry Of Social Development
Ministry Of Transport Miscellaneous Clarical and Administrative Workers
Miscellaneous Clerical and Administrative WorkersMiscellaneous Education Professionals
Miscellaneous Factory Process Workers
Miscellaneous Hospitality, Retail and Service
Managers
○ Miscellaneous Labourers
Miscellaneous Sales Support Workers
Miscellaneous Specialist Managers
Miscellaneous Technicians and Trades Workers
Missionary
Mixed Crop and Livestock Farm Worker
Mixed Crop and Livestock Farm Worker
 Mixed Crop and Livestock Farmer
 Mixed Crop and Livestock Farmer
Mixed Crop Farmer
Mixed Livedstock Producer
Mixed Livestock Farm Worker
Mixed Livestock Farmer
Mobile Lending Manager
○ Mobile Lending Manager (ASB)
Mobile Plant Operator
Mobile Plant Operators
Mobile Plant Operators nec
Model
Models and Sales Demonstrators
Modern Transport Engineer
Money Eychange Worker
Money Exchange WorkerMoney Market Clerk
Monk
Monumental Mason
Mortgage Broker
Moss Factory
Moss Factory Worker

○ M \	
Moss Worker	
○ Motelier	
○ Mother	
Mother And Part-time Yoga Teacher	
Mother At Home	
Mothercraft Nurse	
Motion Picture Projectionist	
Motor Mechanic (General)	
 Motor Vehicle and Vehicle Parts Salespersor 	าร
 Motor Vehicle Licence Examiner 	
 Motor Vehicle or Caravan Salesperson 	
 Motor Vehicle Parts and Accessories Fitter 	
(General)	
Motor Vehicle Parts and Accessories Fitters	
Motorcycle Mechanic Material And Community Maintenance	
Motorhome And Caravan Maintenance	
Mountain or Glacier Guide	
Moving Weeds	
 Multimedia Designer 	
Multimedia Specialist	
 Multimedia Specialists and Web Developers 	
Mum And Farm Worker	
Mushroom Picker	
Music Director	
Music Professionals	
Music Professionals nec	
Music Store Owner	
Music Teacher (Private Tuition)	
 Musical Instrument Maker or Repairer 	
Musician (Instrumental)	
Muster	
Musterer	
NaeTec Limited	
Nail Technician	
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○ Note Taker
Noxious Weeds and Pest Inspector
Nuclear Medicine Technologist
Nuclear Physicist
Numerical Clerks
Nun
Nurse
Nurse
Nurse Pre/Post Natal
Nurse Aide
Nurse Aide/Healthcare Asst
Nurse Educator
Nurse Educators and Researchers
○ Nurse Manager
○ Nurse Managers
○ Nurse Practitioner
Nurse Researcher
Nurse Specialist
Nurse Team Leader
Nurse-Former
Nurse/Midwife
Nurseryperson
Nurserypersons Nurses And Midwifery
Nurses And Midwifery
Nursing Clinical Director
Nursing Student
Nursing Support and Personal Care Workers
○ Nursing Support Worker
Nutrient Specialist
Nutrition Professionals
○ Nutritionist
○ NZ Post
NZ Racing Board
NZDF
() NZTA
NZTA Obstetrician and Gynaecologist
Obstetrician and Gynaecologist
Obstetrician and GynaecologistOccupational and Environmental Health Professionals
 Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser
 Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist
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Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office And Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Worker Office Cadet Oil Rigger
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Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office Administrator Office Administrator Office Managers Office Manager Office Manager Office Manager Office Managers Office Morker Office Worker Office Tcadet Oil Rigger Oncology Worker Operating Theatre Technician Operations Manager
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Orchard Manage	r
Orchard Worker	
Orchardist	
Order Clerk	
Order ClerkOrder Filler	
Organic Farm W	orker
Organic Farm W	
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Organisational C	
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Orthopaedic Sur	
Orthoptist	-
Orthotist or Pros	thetist
Osteopath	
Other	
Other Accommo	dation and Hospitality Managers
	nd Engineering Technicians
Other Cleaners	
	d Administrative Workers
	d Office Support Workers
	on and Mining Labourers
Other EducationOther Engineering	
Other Factory Pr	estry and Garden Worker
	ignostic and Promotion Professionals
Other Hospitality	
	, Retail and Service Managers
	n and Organisation Professional
Other Labourers	
Other Machine C	perators
	ous Clerical and Administrative
Workers	
Other Miscellane	
	ous Technicians and Trades Workers
Other Mobile Pla	
	d Physical Science Professionals
Other Personal S	
Other Sales Sup	
Other Sales Supp	
Other Spatial Sc	
Other SpecialistOther Sports Coa	
Other Sports Off	
Other Stationary	
	ns and Trades Workers
	cessing Machine Operator
Otorhinolaryngo	
Out of School Ho	
	urs Care Worker (Oscar)
Outdoor Adventr	
Outdoor Advent	
Outdoor Advent	
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Oyster Farmer	
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Pacific Health Action Pacific Health Action	
O Packers	111301
O Packers and Pro	duct Assemblers
O Packers nec	ace / Obelinoids
O Packhouse Work	er
O PACT House Pati	
O Paediatric Surge	
O Paediatrician	
O Paint Stripper	
Painter	
O Painter (Visual A	
Painter/Decorate	or

O Painting Trades Worker
Painting Trades Workers
O Pak N Save
○ Panelbeater
O Panelbeaters, and Vehicle Body Builders, Trimmers
and Painters
Paper and Pulp Mill Operator
Paper and Pulp Mill Worker
 Paper and Wood Processing Machine Operators
Paper Products Machine Operator
O Parasail Skipper
O Park Ranger
Parking Inspector
O Parole or Probation Officer
Part Rime Cab Driver
O Part time Cab Driver
O Part Time Student /Part Time Retail Assistant
O Part Time Supermarket Worker And High school
Student
Part-time Accountant
Part-time Construction Worker
Part-time Construction Worker
Part-time Driver
Part-time Farmer
Parts Manager
Parts Supervisor
Passenger Coach Driver
Pastor
Pastrycook
Pastrycook's Assistant
O Patents Examiner
O Pathologist
Pathology Collector (Aus)/Phlebotomist (NZ)
O Patient Advocate
O Patient Information Officer
Paving and Surfacing Labourer
 Paving and Surfacing Labourers
Paving Plant Operator
Payments Administrator
Payroll Clerk
Payroll Clerks
O Peer Support Co Ordinator
Performing Arts Technicians
Performing Arts Technicians nec
O Personal Assistant
Personal Assistants
Personal Assistants and Secretaries
Personal Assistants and Secretaries
O Personal Care Assistant
Personal Care Consultants
Personal Carers and Assistants
Personal Service and Travel Workers
Personal Service Workers nec
Personal Trainer
Pest Controller
Pest Controller And Enviro Schools
•
Pest or Weed Controller
Pet Groomer
O Petfood Worker
O Petrol Garage Worker
O Petroleum Engineer
PG Wrightson Administrator
Pharmacist
○ Pharmacist
Pharmacutical Production Manager
Pharmacy Sales Assistant
Pharmacy Sales Assistants
Pharmacy Technician
Pharmacy Technician
O PhD Student
O Phlebotomist

Phlebotomist
Photographer
Photographer's Assistant
Photographers
O Photographic Developer and Printer
O Photographic Developers and Printers
Phys Ed Officer
O Physi Ed Office
PhysicianPhysicist
Physio Assistant/Parent
Physiotherapist
O Physiotherapists
Piano Teacher
Picture Framer
O Pig Farmer
O Pilates Teacher
O Pilot
O Pipeline Engineer
O Pizza Delivery
O Plant Nursery Worker
○ Plasterer
○ Plasterers
 Plastic and Reconstructive Surgeon
Plastic Cablemaking Machine Operator
 Plastic Compounding and Reclamation Machine
Operator
O Plastics and Rubber Factory Workers
Plastics and Rubber Production Machine Operators
Plastics and Rubber Production Machine Operators
Nec
Plastics Fabricator or Welder
Plastics Factory WorkerPlastics Process Worker
Plastics Production Machine Operator (General)
Plastics Technician
Plumber
Plumber (General)
Plumber Commercial
Plumber's Assistant
○ Plumbers
Plumbing and Drainage Inspector
O Plumbing Contractor
O Plumbing Inspector
O Plumbing Retail
○ Plunket Nurse
Podiatrist
○ Podiatrists
OPolice
O Police Detective
O Police Officer
O Police Officer Trainee
O Police Woman
O Policeman
Policy AdviserPolicy Analyst
O Policy and Planning Manager
Policy and Planning Managers
Policy Officer
Politician
O Polytechnic Teacher
O Pool Attendant
O Pool Manager
O Pool Supervisor
O Porse
O Port Worker
O Portfolio Manger
O Possum Trapper
O Possum Trapper
O Post Graduate Student
O Post Mistress

\bigcirc	Doct Office Manager
	Post Office Manager
	Postal Delivery Officer
\circ	Postal Delivery Service
	Postal Sorting Officer
	Postman
	Potato Farmer
	Potter or Ceramic Artist
\circ	Pouako Kura Kaupapa M
\bigcirc	Poultry Farm Worker
	Poultry Farmer
	Poultry Process Worker
	Poultry Worker
	Power Generation Plant Operator
\bigcirc	Practice Managers
	Practice Managers nec
	Practice Nurse
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_	Pre And Afterschool Care
\circ	Pre School Music Group
\bigcirc	Pre-schooler
	Precision Instrument Maker and Repairer
	Precision Metal Trades Workers
	Preschool Aide
	Preschool Co-ordinator
\bigcirc	Preschool Teacher
$\tilde{\cap}$	Preschooler
$\tilde{\cap}$	Press Secretary
\simeq	Proceure Wolder
	Pressure Welder
	Pricing Analyst
\circ	Priest
$\overline{\bigcirc}$	Primary Health Organisation Manager
	Primary Products Inspectors
	Primary Products Inspectors nec
Ō	Primary school student
\circ	Primary School Teacher
\bigcirc	Primary School Teacher Aide
$\tilde{\cap}$	Primary School Teachers
	Primary Teacher
	Principal Adviser
\circ	Principal Policy Planner
\bigcirc	Principal Release
$\tilde{\bigcirc}$	Print Finishers and Screen Printers
	Print Journalist
Õ	Printer
	Printer
\bigcirc	Printer's Assistant
	Printing Assistants and Table Workers
	Printing Machinist
	Printing Table Worker
	Printing Trades Workers
\circ	Prison and Security Officers
	Prison Guard
	Prison Officer
	Prison Officers
	Prison Program Coordinator
\circ	Prisoner
Ō	Private Investigator
	Private Nanny
	Private Tutors and Teachers
	Private Tutors and Teachers nec
	Process Packer
	Process Worker
	Processing Manager
\simeq	Procurement Director
	Procurement Manager
	Produce Worker - Supermarket
	Product Assembler .
_	Product Assemblers
	Product Controller
\cong	Droduct Evening
	Product Examiner
	Product Grader
\circ	Product Manager
_	

	Product Manager
	Product Quality Controllers
	Product Scanner
\bigcirc	Product Tester
	Production Assistant (Film, Television, Radio or
0	Stage)
\bigcirc	Production Clerk
	Production Designer
	Production Manager
	Production Manager (Forestry)
\circ	Production Manager (Manufacturing)
\bigcirc	Production Manager (Mining)
$\tilde{\cap}$	Production Manufacturer
	Production or Plant Engineer
	Production Planner
\simeq	Production Planner
\mathcal{C}	Production Planner
	Production Worker
	Professional Triathlete
	Professionals
\bigcirc	Professor/Lecturer
	Professor/Lecturer (Retired)
	Program Director (Television or Radio)
\simeq	Program or Project Administrator
	Programme Advisor
	Programme And Operations Coordinator
\circ	Programme Manager
\bigcirc	Programmer
	Project Builder
	Project Coordinator
\sim	Project Manager
\simeq	Project Manager
\sim	Project Manager
	Project Manager In Chrishchurch
Õ	Project Manager Security
	Proof Reader
\circ	Property Agent
\circ	Property Development Manager
Ŏ	Property Maintenance
	Property Manager
	Property Valuer
	Prostitute
	Protective Service Workers
\sim	Prothesist
	PSA Organiser
	Psychiatric Nurse
\circ	Psychiatrist
$\tilde{\bigcirc}$	Psychiatrists
	Psychologist
	Psychologists nec
\simeq	Psychotherapist
	Public Health Engineer
	Public Health Nurse
	Public Relations Manager
	Public Relations Professional
Ō	Public Relations Professionals
	Public Servant
	Publications Manager
	Publicist At NZ Film Festival Trust
\simeq	Publisher
	Purchasing and Supply Logistics Clerks
	Purchasing Officer
	Quadrant Hotel
\circ	Quality Assurance
\cap	Quality Assurance Manager
	Quantity Surveyor
	Quantity Surveyor
	Quarantine Officer
\simeq	Quartume Officer
\supset	Quarry Worker
	R And D Technologist
\circ	Radiation Oncologist
	Radiator Fitter
Ō	Radiator Repair

	Radiator Repairs
	Radio Despatcher
	Radio Journalist
_	Radio Presenter
_	Radiocommunications Technician
	Radiologist
	Radiology Assistant
	Railway Signal Operator
\sim	Railway Station Manager
	Railway Track Plant Operator Railway Track Worker
	Railway Track Workers
	Railways Assistant
	Real Estate Agency Licensee
	Real Estate Agent
	Real Estate Agent
	Real Estate Representative
	Real Estate Sales Agents
	Real Estate Sales Agents
	Realty Estate Agent
Ó	Rec Planner
	Receptionist
	Receptionist (General)
	Receptionists
	Records Manager
	Recreation Clerk
	Recreation Coordinator
	Recruitment
_	Recruitment Consultant
	Recruitment Manager
	Recycling and Rubbish Collectors
	Recycling Worker
	Recycling Worker Reduced To Clear
	Refinery Worker
	Refrigeration Engineer
	Refrigeration Engineer
	Refrigeration Mechanic
$\tilde{\circ}$	Refrigeration Specialist
	Refrigeration Technician
	Refuge Worker
	Refugee
	Refugee
Ō	Refuse Collector
Ó	Regional Education Manager
	Registered Nurse
	Registered Nurse
	Registered Nurse (Aged Care)
	Registered Nurse (Child and Family Health)
	Registered Nurse (Community Health)
	Registered Nurse (Critical Care and Emergency)
	Registered Nurse (Developmental Disability)
	Registered Nurse (Disability and Rehabilitation)
	Registered Nurse (Medical Practice) Registered Nurse (Medical)
	Registered Nurse (Mental Health)
	Registered Nurse (Paediatric)
	Registered Nurse (Perioperative)
	Registered Nurse (Surgical)
	Registered Nurses
	Registered Nurses nec
	Registrar Wellington High Court
	Rehabilitation Counsellor
	Reinforced Plastic and Composite Production Worker
	Relief Daycare Teacher
	Relief Milker
	Relief Secondary School Teacher
	Relief Teacher
	Religious Assistant
	Renal Medicine Specialist
\circ	Rental Salesperson

Reporter
Research Admin
Research Analyst
Nesearch Analyst
 Research and Development Manager
 Research and Development Managers
Research Assistant
Research Manager
Research Technician
Researcher
Resident Medical Officer
Residential Care Officer
O Residual Cotonomica (Operational Codes only)
Residual Categories (Operational Codes only)
Residual Categories (Operational Codes only)
Resource Developer For Education Programmes
Response not identifiable
Response Outside Scope
Response Outside Scope
Response Outside Scope/Not Stated
Response Unidentifiable
Restaurant Owner
Restaurant Worker
Restaurant Worker
Resthome Nurse
Resthome Resident
Resthome Worker
Resthome Worker - Activity Coordinator
Retail
Retail and Wool Buyers
Retail Assistant
O Retail Assistant
○ Retail Buyer
Retail Investigator
Retail Loss Prevention Officer
•
○ Retail Manager
Retail Manager (General)
○ Retail Managers
Retail Pharmacist
O Retail Filanniacist
Retail Pharmacist Assistant
Retail Supervisor
Retail Supervisors
○ Retail Work
Retail Work
Retail/Student
Retailer
○ Retailer Shop
Reticulation Technical Officer
Retired
○ Retired
Retired (lives In A Resthome)
Retired Accountant
Retired Banker
Retired but working as part-time Teacher
Retired Church Minister
○ Retired Farmer
○ Retired Farmer
Retired Farmer Living On Farm
○ Retired GP
Retired Kindergaten Teacher
Retired Midwife
Retired Nurse
Retired Pharmacist
○ Retired/Farming
Retirement Home Resident
Retirement Village Manager
○ Rheumatologist
Road and Rail Drivers
○ Road Labourer
Road Marker
Road Roller Operator
Road Safety Coordinator
Road Traffic Controller
Road Traffic Controller
CA MODE TRAINE CONTROLLE

○ Road Worker
○ Roof Plumber
○ Roof Tiler
O Roof Tilers
Roofer
Room Services (Cleaner)
Rose Breeder
RSE Supervisor
Rubber Factory Worker
Rubber Production Machine Operator
Rugby Player
Rural Bank Manager
Rural Bank Worker
Safety Inspector
Safety Inspectors
Sail Maker
○ Sailor○ Sales Administrator
Sales And Marketing - Other
Sales and Marketing - Other Sales and Marketing Manager
Sales Assistant (General)
Sales Assistants (General)
Sales Assistants and Salespersons
Sales Assistants and Salespersons
Sales Assistants and Salespersons nec
Sales Centre Supervisor
Sales Clerk
Sales Consultant
Sales Consutant
Sales Demonstrator
Sales Engineer
Sales Engineer
Sales Manager
Sales Manager
○ Sales Person
() Sales Person
○ Sales Person○ Sales Person In Own Home
○ Sales Person In Own Home
Sales Person In Own HomeSales Representative
○ Sales Person In Own Home
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services)
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products)
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products)
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 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives
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 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Support Worker Sales Worker
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales, Marketing and Public Relations Professionals
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales, Marketing and Public Relations Professionals Salesman
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer Salvation Army
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill Engineer Sawmilling Operator
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Sawmilling Operator Scaffolder
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Support Worker Sales Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Saffolder Scaffolder Schindlers Lifts
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesman Farmer Salvation Army Sand Blaster Saw Maker and Repairer Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Scaffolder Schindlers Lifts School Aide
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesman Farmer Salvation Army Sand Blaster Saw Maker and Repairer Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Scaffolder Schindlers Lifts School Aide School Care Taker
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesman Blaster Saw Maker and Repairer Sawmill Engineer Sawmill Engineer Sawmill or Timber Yard Worker Sasmilling Operator Scaffolder Schindlers Lifts School Care Taker School Care Taker
 Sales Person In Own Home Sales Representative Sales Representative (Building and Plumbing Supplies) Sales Representative (Business Services) Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesman Farmer Salvation Army Sand Blaster Saw Maker and Repairer Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Scaffolder Schindlers Lifts School Aide School Care Taker

School Dental Nurse
○ School Girl
School Laboratory Technician
School Librarian
○ School Photographer
School Principal
○ School Principals
○ School Worker
Schoolboy
○ Schoolgirl
○ Science Technician
Science Technicians nec
Science/tech Professional
○ Scientist
Scrap Metal Dealer
Scrap Metal Worker
Screen Printer
Scrub Cutter
○ Sculptor
Seafarer
Seafood Packer
Seafood Process Worker
Sealords
Seaman
Seamstress
Seasonal Worker
Secondary school student (over 16)
Secondary school student (under 16)
Secondary School Teacher
Secondary School Teachers
Secretaries
Secretary (General)
Security Assurance Consultant
Security Consultant
Security Guard
Security Guard (Courts)
Security Oddia (Courts)
Security Officers and Guards
Security Officers and Guards nec
Security Supervisor
Seed Dresser
Self - Employed Counsellor
Self Employed
Self Employed
Self Employed
Self Employed - Construction
Self Employed - Recruitment
Self Employed - Retail
Self Employed Administration For Sports Epquipment
Company Self Employed At Home
Self Employed Bar Manager
Self Employed Coach Painter
Self Employed Coach Painter
Self Employed Contractor
Self Employed Contractor
Self Employed Electrician
Self Employed Garderner
Self Employed Logger
Self Employed Postal Worker
Self Employed Share Milker
Self Employed Sharemilker
Self-employed Cleaning Company
Self-Employed Contractor
Self-Employed Painter And Decorator
Self-Employed Studio Photographer
Semi Retired
Semi Retired - Volunteers On Marae
Semi Retired Farmer
Senior Central Government Official
 Senior Non-commissioned Defence Force Member

Senior Non-commissioned Defence Force Member
Senior Programme Advsor
Senior Scientist
Senior Test Analyst
Septic Tank Cleaner
Service Administratiion Manager
Service Consultant
Service Desk Operator
○ Service Manager
 Service Station Attendant
Service Station Attendants
Service Support Manager
Service Technician
Sewage Contractor
Sewage ContracterSewing Machinist
Sewing Machinist
Sewing Machinists
Sex Worker
○ Sex Worker or Escort
Sexual Health Clinician
○ Sharemilker
Shearer
Shearers
○ Shed Hand
Char
Shearer Shearers Shed Hand Sheep
○ Sneep Farm Worker
○ Sheep Farmer
○ Sheep Farmer
○ Sheep Handler
Sheetmetal Trades Worker
Sheetmetal Trades Workers
Chalf Filler
Chalf Fillows
Shell Fillers
Shelf FillerShelf FillersShepherd
() Ship's Engineer
○ Ship's Master
○ Ship's Officer
Ship's SurveyorShipwright
○ Shipwright
Shoemaker
○ Shop Assistant
Shop Manager
Shop Owner
Shop Owner
Chan Owner Manufacture Of Concrete Broducts
Shop Owner - Manufacture Of Concrete Products
Short Top And Sides
Shot Firer
○ Shuttle Driver
○ Sickness Beneficiary
Sickness Beneficiary (previously Caregiver In A
Resthome)
Sickness Beneficiary (previously Caregivern In A
Resthome)
Sign Erector
Signwriter
Signwriters
Singer
○ Site Manager
○ Site Worker
○ Ski Instructor
 Skilled Animal and Horticultural Workers
Skydive Jump Master
○ Slaughterer
Small Engine Mechanic
Small Offset Printer
Smith City
Snowsport Instructor
Social and Welfare Professionals
Social Professionals
Social Professionals nec
Social Science Researcher
Social Security Assessor

Social Worker	
Casial Warkers	
Social Workers	
Software and Applications Programmers	
 Software and Applications Programmers ned 	2
Software Architect	
Software Developer	
Software Developer	
Software EngineerSoftware Tester	
Coftware Tester	
O Software rester	
Soldier	
Solicitor	
Solicitors	
○ Solid Plasterer	
Solutions Architect	
Song Writer	
SonographerSound Technician	
O Sound Technician	
O South rectificati	
Sous Chef	
Special Care Worker	
Special Developer	
 Special Education Teachers 	
 Special Education Teachers nec 	
 Special Needs Occupational Therapist 	
Special Needs OT	
Special Needs Teacher	
Specialist Managers	
Specialist Managers nec	
Specialist Physician (General Medicine)	
Specialist Physicians	
 Speech Language Therapist 	
Sports Administrator	
 Sports and Personal Service Workers 	
Sports Centre Manager	
○ Sports Co-ordinator	
 Sports Coaches, Instructors and Officials 	
 Sports Development Officer 	
Consider University	
Sports Umpire	
Chartenersons	
() Sportspersons	
○ Sportspersons	
Sportspersons nec	
Sportspersons necSpray Painter	
Sportspersons necSpray Painter	
Sportspersons necSpray PainterSt Johns Ambulance Tech	
Sportspersons necSpray PainterSt Johns Ambulance TechStablehand	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk 	
 ○ Sportspersons nec ○ Spray Painter ○ St Johns Ambulance Tech ○ Stablehand ○ Staff Member ○ Staff Nurse ○ Stage Manager ○ Standards NZ ○ Stationary Plant Operators ○ Stationary Plant Operators nec ○ Statistical Clerk ○ Statistician 	
 ○ Sportspersons nec ○ Spray Painter ○ St Johns Ambulance Tech ○ Stablehand ○ Staff Member ○ Staff Nurse ○ Stage Manager ○ Standards NZ ○ Stationary Plant Operators ○ Stationary Plant Operators nec ○ Statistical Clerk ○ Statistician ○ Stay At Home Dad 	
 ○ Sportspersons nec ○ Spray Painter ○ St Johns Ambulance Tech ○ Stablehand ○ Staff Member ○ Staff Nurse ○ Stage Manager ○ Standards NZ ○ Stationary Plant Operators ○ Stationary Plant Operators nec ○ Statistical Clerk ○ Statistician 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Stay At Home Mum Stay At Home Mum And Florist On Weekend 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Stay At Home Mum And Florist On Weekend Steel Cutter 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statisticial Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statisticial Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statisticial Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistical Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker Sterilisation Technician 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistical Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker Stevedore 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker Stevedore Stock Agent 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker Stevedore Stock Agent 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Worker Stevedore Stock Agent Stock and Station Agent 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum And Florist On Weekend Steel Cutter Steel Fixer Steel Worker Sterilisation Technician Stevedore Stock Agent Stock Clerk 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Fixer Steel Worker Stevedore Stock Agent Stock Clerk Stock Truck Driver 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Steel Cutter Steel Fixer Steel Fixer Steel Worker Stevedore Stock Agent Stock Clerk Stock Truck Driver 	
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	Storeman
	Storeman
Q	Storeperson
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Q	Storepersons
	Storepersons
	Stowage Contractor
	Street Vendor
	Street Vendors and Related Salespersons
	Streetsweeper Operator
Q	Structural Engineer
	Structural Steel and Welding Trades Workers
Q	Structural Steel Construction Workers
	Structural Steel Erector
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\bigcirc	student
\bigcirc	Student - Best Pacific Institute Of Education.
	Student - Bible School
\bigcirc	Student - Home Schooled
	Student - Home Schooled
\bigcirc	Student - Language
\bigcirc	Student - Lost To Followup Student - Out Of Auckland
	Student - Overseas (Samas)
	Student - Overseas (Samoa)
	Student - Pharmaceutical
	Student (Biomedical Science)
	Student (Sport
\odot	Student / Part Time Nanny
\sim	Student And Part Time Supermarket Worker
\sim	Student And Youth Worker Student Counsellor
	Student Counsellor Student Home Schooled
	Student Midwife
	Student Nurse Student Nurse
\sim	Student Physiotherapist
\simeq	Student Pilot
	Student Thotassum Student Teacher
	Student Teacher
	student Wel Tech
	Student- Legal Research
	Student- Legal Researcher
	Student/Caregiver
	Student/Foodcafe Worker
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000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager
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Surveying or Cartographic Technician
○ Surveyor
○ Surveyor's Assistant
 Surveyors and Spatial Scientists
 Sustainable Transport Coordinator
Swimming Pool Attendant
Swimming Coach or Instructor
Swimming Pool Construction
Switchboard Operator
Switchboard Operators
○ Systems Administrator
○ Systems Analyst
Systems AnalystTanker Driver
Tanker Driver
○ Tanker Driver ○ Tannery Worker
Tattoo Artist
Taxation Accountant
Taxation Inspector
○ Taxi Driver
○ Taxidermist
TeacherTeacher
Teacher
Teacher - Reliever
○ Teacher - Reliver
Teacher (currently Not Working)
Teacher Aide
Teacher Of Adults
Teacher of English to Speakers of Other Languages
Teacher Of Music
 Teacher of the Hearing Impaired
 Teacher of the Sight Impaired
○ Teacher- Correspondence School
Teacher/Instructor
Teachers of English to Speakers of Other Languages
○ Teachers' Aide
Team Leader
Team Leader Of Club Active
Team Manager
Tech Solutions Specialist
Technical Analyst
Technical Cable Jointer
Technical Coodinator
Technical Director
Technical Officer
Technical Sales Representatives
Technical Sales Representatives nec
Technical Writer
○ Technician
 Technicians and Trades Workers
Technicians and Trades Workers nec
Telecommunications Cable Jointer
Telecommunications Engineer
 Telecommunications Engineering Professionals
Telecommunications Field Engineer
Telecommunications Line Mechanic
Telecommunications Network Engineer
Telecommunications Network Planner
Telecommunications Technical Officer or
Technologist
Telecommunications Technical Specialists
Telecommunications Technician
Telecommunications Trades Workers
○ Telemarketer
○ Telemarketers
Telephone Betting Clerk
○ Telephonist - Call Centre
 Television Equipment Operator
Television Journalist
O = 1 11 B
Television Presenter
○ Teller

Territory Manager
Tertiary Education Teacher
 Tertiary student
Tertiary Student
O Test Engineer
Test EngineerTextile and Footwear Production Machine Operators
Textile and Footwear Production Machine Operators
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Textile Dyeing and Finishing Machine Operator
 Textile, Clothing and Footwear Mechanic
 Textile, Clothing and Footwear Trades Workers
Theatre Facilator
Theatre Facilitator
Theatre Nurse
Therenist
○ Therapist
Therapy AideTherapy AssisstantThermoformer Operator
 Therapy Assisstant
Thermoformer Operator
Thoracic Medicine Specialist
Ticket Collector or Usher
Ticket Salespersons
Ticket Seller
○ Tiler
 Timber and Wood Process Workers
○ Toddler
○ Toddler
○ Toolmaker
Toolmakers and Engineering Patternmakers
Tour Guide
○ Tourism and Travel Advisers
○ Tourist
○ Tourist Guide
Tourist Information Officer
Tow Truck Driver
Town Planner
Tractor Mechanic
Trade Assistant
○ Tradesman
Traditional Chinese Medicine Practitioner
Traditional M
Train and Tram Drivers
Train Controller
Train Driver
Train Examiner
Trainee Mechanic
 Training and Development Professional
 Training and Development Professionals
Training Coordinator
Trainor (ACC)
○ Tram Driver
 Transfer Station Operator
○ Translator
 Transport and Despatch Clerks
Transport Company Manager
Transport Conductor
Transport Coordinator
Transport Engineer
Transport Manager
 Transport Operations Inspector
Transport Services ManagerTranz Rail
○ Tranz Rail
 Travel Agency Manager
Travel Agency ManagerTravel Attendant
Travel Attendants
Travel Attendants nec
Travel Consultant
○ Travel Coordinator
○ Traveller
○ Tree Feller
○ Tree Feller○ Trekking Guide○ Tribunal Member

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Trolley Collector	
Truancy Officer	
Truck Driver	
Truck Driver	
Truck Driver	
Truck DriverTruck Driver (General)Truck Driver (Stock)Truck Driver's Offsider	
Truck Driver (General)	
O Truck Driver (General)	
() Truck Driver (Stock)	
 Truck Driver's Offsider 	
O Truck Driver 5 Offsider	
Truck Drivers	
Truck Mechanic	
 Trucking Operator 	
Trust Officer	
Turf Grower	
O Tull Glower	
Tutor	
Tutor Lecturer	
O TV Draduction	
Tutor LecturerTV ProductionTypist	
Tyre Fitter	
O Tyre riccer	
Tyre Fitter	
O Ucol Lecturer	
UN Consultant	
Under 5 Years	
O Un a manufactor of	
Unemployed	
Unemployed - Visiting NZUnemployed But Part-time CIUniversity Academic	
O Unomployed Put Bart time Cl	oonor
O unemployed but Part-time Ci	eanei
() University Academic	
University Lecturer	
Offiversity Lecturer	
 University Lecturers and Tuto 	rs
University Professor	
University Student	
 University Student, Engineeri 	na
O University Tutor	9
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Visual Arts and Crafts Professional
 Visual Arts and Crafts Professionals nec
Visual Merchandiser
○ Visual Merchandisers
○ Vocational Education Teachers (Aus) / Polytechnic
Teachers (NZ)
○ Voluntary Work
○ Volunteer
Volunteer At A Music Pre-School
○ Volunteer Driver (occasionally)
○ Volunteer Work In 3rd World Countries
 Volunteer Work In 3rd Worls Countries
○ Waiter
Waiters
Waitress
Wall and Floor Tiler
○ Wall and Floor Tilers
○ Ward Clerk
Warehouse Administrator
○ Warehouse Manager
Warehouse Night Shift Worker.
Warehouse Online Shopping Clerk
○ Warehouse Supervisor
Warehouse Worker
○ Waste Water Management
○ Waste Water Operator
Waste Water or Water Plant Operator
Watch and Clock Maker and Repairer
Water Blaster
○ Water Inspector
○ Water Pump Worker
○ Water Tank Cleaner
Water Treatment Engineer
○ Waterside Worker
Weaving Machine Operator
○ Web Administrator
○ Web Designer
○ Web Developer
○ Webdesigner
○ Weed Sprayer
Weigh Bridge Tech
Weighbridge Operator
Weight Loss Consultant
○ Weightlifter
Welder
Welfare Centre Manager
○ Welfare Support Worker
○ Welfare Worker
 Welfare, Recreation and Community Arts Workers
○ Welllington Hospital
○ Wharf Worker
○ Whitewater Rafting Guide
○ Wholesaler
○ Window Cleaner
Wine Maker
○ Wine sales Worker
○ Wine Stewart
○ Winery Cellar Hand
○ Winery Worker
○ Wintec Student
WINZ Facilitator
women's Centre Co-oridnator
Wood and Wood Products Factory Worker
○ Wood Machinist
 Wood Machinists and Other Wood Trades Workers
○ Wood Machinists and Other Wood Trades Workers nec
○ Wood Processing Machine Operator
Wood Tracessing Machine Operator Wood Trades Workers
○ Wood Treater
○ Wood Turner
○ Woofer

○ Wool Buyer○ Wool Classer○ Wool Handler○ Wool Technician
Word Processing Operator
Work Visa Holder
○ Workforce Planner
○ Working In Film Industry
○ Workplace Relations Adviser○ Works At Abseilers
Works At Swimming Pool
○ Works From Home
Works From Home - Motor Industry
○ Works In A Mashroom Firm
○ Works In A Mushroom Firm
○ Works In Sewers
○ Works Infrastructure○ Works With Natural Medicines
Writer
Writer (Library)
○ Yard Foreman
○ Yardsman
Yarn Carding and Spinning Machine Operator
✓ Yoga Teacher✓ Youth Worker
Youth Worker
○ Zoo Ranger
○ Zookeeper
○ Zoologist

 ○ 16 Month Old Child Job title 3 ○ A.I. Technician Abattoir Worker Aboriginal and Torres Strait Islander Education Aboriginal and Torres Strait Islander Health Worker O Abrasive Blaster ○ Absailer ○ Abseiler ACC Justice Centre ACC Justice Centre Accommodation and Hospitality Managers nec Accommodation Manager - Boarding House Accountant Accountant (General) Accountants, Auditors and Company Secretaries Accounting Clerk Accounting Clerks Accounting Clerks and Bookkeepers Accounts Accounts Administrator Accounts Administrator Accounts Administrator Accounts Clerk Accounts Manager Accounts Payable Administrator Actor Actors, Dancers and Other Entertainers O Actors, Dancers and Other Entertainers nec Actuaries, Mathematicians and Statisticians Actuary Actuary And Consultant Acupuncturist Admin Manager Admin Worker Administration Administration Manager Administration Manager Administrative Officer Administrator Administrator Administrator Administrator Gisborne Tatapouri Fishing Club Administrator.Owner Of Restaurant. Admissions Clerk Advertising O Advertising Agency Director Advertising and Marketing Professionals Advertising and Public Relations Manager Advertising and Sales Manager Advertising Manager Advertising Specialist Advertising, Public Relations and Sales Managers ○ Advisor Aeronautical Engineer ○ Aeroplane Pilot After School Care Aged and Disabled Carers Aged Care Worker Aged or Disabled Carer Agency Nurse Agri Business Consultant Agricultural and Forestry Scientists Agricultural and Horticultural Mobile Plant Operator Agricultural Chemical Consultant Agricultural Consultant



Agricultural ContractingAgricultural Engineer

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	Agricultural Scientist
	Agricultural Sprayer
	Agricultural Technician
	Agricultural Technicians
	Agricultural Worker
\circ	Agricultural, Forestry and Horticultural Plant
	Operators
\circ	Agricultural, Medical and Science Technicians
	Agriculture Advisor
	Agriculture Research
	Agronomist
	Aid Worker
	Aid worker Carpenter
	Air and Marine Transport Professionals
	Air Assistant
	Air Compressor Technician
	Air COnditioning / Mechanic
	Air Steward
	Air Stewardess
	Air Traffic Control Instructor
	Air Traffic Controller
	Air Traffic Controller
	Air Transport Professionals
	Air Transport Professionals nec
	Airconditioning and Mechanical Services Plumber
	Airconditioning and Refrigeration Mechanic
	Airconditioning and Refrigeration Mechanics
	Aircraft Baggage Handler and Airline Ground Crew
	Aircraft Engineer
	Aircraft Maintenance Engineer (Avionics)
	Aircraft Maintenance Engineer (Mechanical)
	Aircraft Maintenance Engineer (Structures)
	Aircraft Maintenance Engineers
	Aircraft Refueller
	Aircraft Technician
	Airline Manager
	Airport Staff Alarm, Security or Surveillance Monitor
	Aluminium Joiner
	Ambulance Driver
_	Ambulance Officer
	Ambulance Officers and Paramedics
	Ambulance Paramedic
_	Amusement Centre Manager
	Amusement, Fitness and Sports Centre Managers
	Anaesthetic Technician
	Anaesthetist
_	Anaesthetist
	Anaesthetists
_	Analyst
	Analyst Programmer
	Anatomist or Physiologist
	Anesthesiologist
Ŏ	Anesthetic Tech Niurse
Ō	Animal Attendants and Trainers
Ŏ	Animal Attendants and Trainers nec
Ó	Animal Attendants and Trainers, and Shearers
	Animal Carer
\circ	Animal Control
\circ	Animator
	Antique Dealer
	ANZ Bank
Ō	Apiarist
	Apparel Cutter
	Apple Packer
	Apple Picker
	Apple Thinner
	Applicance Works
	Apprentice Builder
	Apprentice Butcher
()	Apprentice Carpenter

Apprentice Electrician
Apprentice Motor Mechanic
Apprentice Panelbeater
O Apprentice Plumber
Apprentice Welder
Aquaculture Farmer
Aquaculture Farmers
Aquaculture Worker
Aquaculture Worker
Aquatic Engineer
Arborist
○ Archaeologist
Architect
Architects and Landscape Architects
Architects, Designers, Planners and Surveyors
Architectural Draftsperson
Architectural, Building and Surveying Technicians
 Architectural, Building and Surveying Technicians nec
↑ Archivist
•
Archivists, Curators and Records ManagersArmed Forces
Armoured Car Escort
Army
Army Corporal
Army Personnel
Art Director (Film, Television or Stage)
Art Teacher (Private Tuition)
Artist
Artist/Photographer
Artistic Director
Artistic Directors, and Media Producers and
Presenters
Arts Administrator or Manager
Arts and Media Professionals
Arts Professionals
Asbestos Labourer
Assembles Agriculture Machinery
○ Asset Manager
○ ASSISTANT ACCOUNTANT
Assistant Manager
Assistant Manager
Assistant Principal
Assistant Teacher
○ At home
oat Home Educarer
At home looking after children
At Home Mother
At home not looking after children
Attendance Officer
Attending Early Childhood Centre
Attending ECC
Attends ESOL Classes
Austinger
AuctioneerAuctioneers, and Stock and Station Agents
Audiologist
Audiologists Audiologists and Speech Pathologists/Therapists
Audiovisual Technison
Auditor
Auditor
Auditors, Company Secretaries and Corporate
Treasurers
○ Author
Authors, and Book and Script Editors
Auto Dismantler
Auto Technician
○ Autoglazier
Automobile Drivers
Automobile Drivers nec
Automobile, Bus and Rail Drivers

Automotive and Engineering Trades Workers
Automotive Electrician
Automotive Electricians
 Automotive Electricians and Mechanics
 Automotive Parts Salesperson
 Automotive Technician
○ AV Installer
Aviation
Avionics Technician
Avocado Orchadist
Baby
Backer
Backhoe Operator
O Baker
BakerBakers and Pastrycooks
Bakery Assistant
○ Bakery Manager
O Bakery Staff
Baking Factory Worker
Banardos In House Child Minder
Bank Call Centre Worker
◯ Bank Clerk
 Bank Employee And Student (Finance)
○ Bank Manager
Bank Manager
Bank Officer
O Bank Teller
Bank Worker
O Bank Workers
Banker
Banking Call Centre Worker
Bar Attendant
Bar Attendants and Baristas
Bar Manager
Bar Useful or Busser
Barber
Barista
Barrister
Barristers
Bartender Basyty Therapist
Beauty Therapist
Beauty Therapists Red and Breakfast Operators
Bed and Breakfast Operator
O Bed Maker
O Bee Keeper
Beef Cattle Farm Worker
Beef Cattle Farmer
○ Beekeeper
Beer Tap Installer
Beetham Rest Home Manager
Behaviour Support Specialist
○ Beneficiary
Berry Farmer
Betting Agency Counter Clerk
Betting Agency Manager
Betting Clerks
Betting Clerks nec
Bicycle Mechanic
Riinder
○ Biinder○ Binder
Binder and Finisher
Bio Medical Technician
Biochemist
Biologist (General) Riemodical Engineer
Biomedical Engineer Biography Officer
Biosecurity Officer
Biotechnologist
Bird Handler
Blacksmith
Boarding Kennel or Cattery Operator
○ Boat Builder

Boat Builder and Repairer
Boat Builders and Shipwrights
○ Boat Skipper
○ Boat Worker
○ Body Artist
O Boiler Assistant
O Boiler or Engine Operator
○ Boilermaker
O Bomb Disposal Person
O Bone Meal Worker
O Bone Meat Worker
O Book or Script Editor
O Bookkeeper
O Bookkeepers
O Bookmaker
O Bookmaker's Clerk
O Bookshop Manager
Bookshop Owner
Bookshop Sales Assistant
O Botanist
O Bouncer
Branch Manager
Branch Manager
Branch Manager (ACC)
Brewery Worker
Bricklayer
Bricklayer
Bricklayers and Stonemasons
Broadcast Transmitter Operator
Builder
Builder
© Builder
Builder (self Employed)
Builder And Motorhome Maintenance
Builder Apprentice
O Builder Apprentice
O Builder's Labourer
Builder/Hammerhand
Builder/Hamnerhand
 Building and Engineering Technicians
 Building and Engineering Technicians nec
 Building and Plumbing Labourers
Building Associate
Building Control Officer
Building Designer
Building Inspector
O Building Insulation Installer
Building Supervisor
Bulk Materials Handling Plant Operator
Bulldozer Operator
O Bungy Jump Master
Bus and Coach Drivers
O Bus Driver
Business
Business Administration Manager
Business Analyst
Business and Systems Analysts, and Programmers
Business Broker
Business Coach
Business Consultant
Business Consultant
Business Director
Business Intelligence Consultant
Business Machine Mechanic
Business Manager
Business Owner
Business Owner-Takeaway
Business Professional
Business, Human Resource and Marketing Professional
Businessman
O Butcher

(Dutcher Appropries
	Butcher Apprentice
	Butcher or Smallgoods Maker
(Butchery Assistant
(Cabinetmaker
	Cabinetmakers
7	Cabler (Data and Telecommunications)
	Caf? Worker
	Cafe and Restaurant Managers
(Cafe Manager
(Cafe or Restaurant Manager
	Cafe Owner
	Cafe Worker
(Cale Worker
	Cafe Workers
(Calf Rearer
(Call or Contact Centre and Customer Service
	Managers
(Call or Contact Centre Information Clerks
	Call or Contact Centre Manager
	Call or Contact Centre Operator
(Call or Contact Centre Team Leader
	Call or Contact Centre Workers
(Camera Operator (Film, Television or Video)
(Camper
(Canning Operator
Ć	Canvas and Leather Goods Makers
(Canvas Goods Maker
	Car Dealer
	Car Detailer
(Car Detailers
(Car Groomer
	Car groomer
	Car Painter
(Car Paintei
(○ Car Park Attendant
(Car Parts Salesperson
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(() Caravan Park and Camping Ground Manager
	Caravan Park and Camping Ground Manager
(Caravan Park and Camping Ground Managers
(Caravan Park and Camping Ground ManagersCaravan Park and Camping Ground Owner
((Caravan Park and Camping Ground ManagersCaravan Park and Camping Ground OwnerCardiac Technician
((Caravan Park and Camping Ground ManagersCaravan Park and Camping Ground Owner
(((Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist
((((Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar
() () () ()	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon
() () () ()	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant
((Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver
((Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home)
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home) Caregiver??
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home) Caregiver/Cleaner
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home) Caregiver??
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver (Rest Home) Caregiver?? Caregiver/Cleaner Caretaker Caretaker
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home) Caregiver/Cleaner Carers and Aides Caretaker Cargo Manager Carpenter
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver (Rest Home) Caregiver/Cleaner Carers and Aides Caretaker Caretakers Cargo Manager
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver(Rest Home) Caregiver/Cleaner Carers and Aides Caretakers Caretakers Cargo Manager Carpenter Carpet Cleaner Carpet Cleaner
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver Caregiver/Cleaner Carers and Aides Caretakers Cargo Manager Carpenter Carpet Cleaner Carpet/Vinyl Layer
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver/Cleaner Cares and Aides Caretakers Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carpet/Vinyl Layer Cartographer
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Caretaker Caretaker Caretakers Carpo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet Cleaner Carpet Cleaner Cartographer Cartographer
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver(Rest Home) Caregiver/Cleaner Caretaker Caretakers Caretakers Carpo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet Cleaner Cartographer
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver(Rest Home) Caregiver/Cleaner Caretaker Caretakers Caretakers Carpo Manager Carpenter Carpenter and Joiner Carpet Cleaner Carpet Cleaner Cartographer
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver/Cleaner Caregiver/Cleaner Caretaker Caretaker Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Carographer Cartographer Cartographer Cartographer Case Manager Case Worker
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver Caregiver/Cleaner Caregiver/Cleaner Caretaker Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Coarpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Cleaner Cartographer Cartographer Cartographer Cartographer Case Manager Case Worker Case Worker Cash Van Salesperson
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Careers Counsellor Caregiver Caregiver (Rest Home) Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Crapenter Cartographer Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Casino Worker
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Carbet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Casino Worker
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	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver (Rest Home) Caregiver/Cleaner Cares and Aides Caretaker Caretakers Carpenter Carpenter Carpenter Carpenter Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Cleaner Carpet Caron Manager Cartographer Cartographer Case Worker Case Worker Cash Van Salesperson Casino Worker Castings Processor Casual Worker
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Carers and Aides Caretaker Caretaker Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Carpet Crapet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Caretaker Caretaker Caretakers Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder Categories Manager
	Caravan Park and Camping Ground Managers Caravan Park and Camping Ground Owner Cardiac Technician Cardiologist Cardiology Registrar Cardiothoracic Surgeon Care Assistant Care Giver Careers Advisor Caregiver Caregiver Caregiver(Rest Home) Caregiver?? Caregiver/Cleaner Carers and Aides Caretaker Caretaker Carpo Manager Carpenter and Joiner Carpet Cleaner Carpet Cleaner Carpet Crapet Cleaner Cartographer Cartographer Cartographer Case Manager Case Worker Cash Van Salesperson Cashier Castings Processor Casual Worker Cat Breeder

Catering Student
○ Cattle Farmer
○ ceiling Installer
○ Celebrant
 Cement and Concrete Plant Worker
Cement Production Plant Operator
○ CEO
○ Ceramicist
○ Chaplain
○ Charge Nurse
Charity Administrator
Charter and Tour Bus Driver
Chartered Director / Consultant
Chauffeur
Checkout Operator
Checkout Operators and Office Cashiers
Checkout Operators and Office Cashiers
Checkout Supervisor
○ Chef
○ Chef
○ Chef Student
○ Chefs
Chefs Course
○ Chelsea House
 Chemical and Materials Engineers
Chemical Engineer
Chemical Plant Operator
Chemical Plant Worker
Chemical Processor
Chemical Production Machine Operator
Chemical, Gas, Petroleum and Power Generation
•
Plant Operators
○ Chemist
Chemistry Technician
Chemists, and Food and Wine Scientists
○ Chicken Farmer
○ Chief Engineer
○ Chief Executive
 Chief Executive or Managing Director
 Chief Executives and Managing Directors
 Chief Executives, General Managers and Legislators
 Chief Executives, General Managers and Legislators
Chief Information Officer
○ Child
○ Child
Child - non-resident
Child 5-15
Child At Home Only
Child Care Centre Manager
Child Care Centre Managers
Child Care Worker
Child Care Worker (Home Based)
○ Child Carers
Child Carers
○ Child Minder
 Child or Youth Residential Care Assistant
Child Support Officer
Child under 16
Child under 5
Child under 5 Attends Preschool
O
Childcare Teacher
○ Childcare Teacher○ Childcare Workder
Childcare Workder
Childcare WorkderChildcare Worker
○ Childcare Workder○ Childcare Worker○ Chimney Sweep
Childcare WorkderChildcare WorkerChimney SweepChiropractor
 Childcare Workder Childcare Worker Chimney Sweep Chiropractor Chiropractor Assistant
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths ○ Chocolate Packer
 Childcare Workder Childcare Worker Chimney Sweep Chiropractor Chiropractor Assistant Chiropractors and Osteopaths Chocolate Packer Church Worker
 ○ Childcare Workder ○ Childcare Worker ○ Chimney Sweep ○ Chiropractor ○ Chiropractor Assistant ○ Chiropractors and Osteopaths ○ Chocolate Packer

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○ Civil Celebrant
Civil Engineer
○ Civil Engineering Draftsperson
 Civil Engineering Draftspersons and Technicians
○ Civil Engineering Professionals
○ Civil Engineering Technician
○ Civil Servant
O CIVII SCIVUIL
Classified Advertising Clerk
Clay Processing Factory Worker
Clay Processing ractory Worker
 Clay Products Machine Operator
Clay, Concrete, Glass and Stone Processing Machine
Operators
Clay, Concrete, Glass and Stone Processing Machine
Operators nec
○ Cleaner
Cleaner
Cicurici
Cleaner
Cleaner
Clearlei
Cleaner
○ Cleaner And Nanny
○ Cleaner/caretaker
 Cleaners and Laundry Workers
 Cleaners and Laundry Workers
○ Cleaners nec
Cleaning Company Manager
Cleaning Company Manager
Clerical and Administrative Workers nec
Clerical and Office Support Worker
Clerical and Office Support Worker
 Clerical and Office Support Workers
 Clerical and Office Support Workers nec
○ Clerk
○ Clerk of Court
 Clinical And Corporate Psychologist
O Cililical And Corporate 1 Sychologist
O Clinical Coder
Clinical Nurse
○ Clinical Oncologist
Clinical Baychologist
Clinical Psychologist
○ Clinical Psychologist
○ Clothing Designer
Clothing Patternmaker
 Clothing Trades Workers
Clothing Trades Workers nec
Clothing trades workers her
○ Co-Director
Co-ordinator Brand
○ Co-ordinator Brand
○ Co-ordinator Brand
Co-ordinator Brand
○ Coach Builder
Coach Painter
○ Coal Miner
Coding Clerk
○ Coldshelf Assistant
Coldshelf Assistant
○ College Student
○ Comedian
Commercial Cleaner
○ Commercial Cleaners
Commercial Designer
Commercial Designer
Commercial Diver
Commercial fisherman
○ Commercial Housekeeper
○ Commercial Manager
Commissioned Defence Force Officer
Commissioned Fire Officer
ullet
 Commissioned Officers (Management)
Commissioned Police Officer
○ Commodities Trader
Communications Advisor
() CONTINUINCACIONS AUVISOR
Communications Director
Communications Director

Communications Technician
○ Community
 Community and Personal Service Workers
Community Arts Worker
community Support Worker
 Community Support Worker
Community Worker
Companion Driving Business
Company Director
Company Secretary
Complementary Health Therapists
Complementary Health Therapists nec
Compliance Officer
Composer
Computer Analyst
Computer Analyst
Computer Engineer
Computer Network and Systems Engineer
Computer Network Professionals
O Computer Operator
O Computer Programmer
Computer Technician
 Concrete Batching Plant Operator
 Concrete Products Machine Operator
○ Concrete Pump Driver
 Concrete Pump Operator
Concreter
○ Concreters
Confectionery Maker
Conference and Event Organiser
Conference and Event Organisers
O Conservation Officer
O Conservator
Construction and Mining Labourers
Construction Estimator
Construction Manager
Construction Project Manager
Construction Rigger
Construction Trades Worker
Construction Worker
Construction, Distribution and Production Managers
Consultant Engineer
Consultant Engineer
Oconsultant Physician
O Contact Centre
Contact Centre Manager
○ Container Filler
Contract Administrator
○ Contract Worker
 Contract, Program and Project Administrators
 Contract, Program and Project Administrators
○ Contractor
Contractor nfd
○ Controller
○ Conveyancer
 Conveyancers and Legal Executives
○ Cook
O Cookery Student
O Cooks
○ Cool Storage Worker
○ Coordinator
Coordinator - About Kids
Copywriter
Corporate General Manager
Corporate Services Manager
Corporate Services Managers
Corporate Trainer
Corporate Treasurer
Corrections Officer
O Cosmetic Physician
Cosmetic ResearcherCosmetology

○ Cost Clerk
○ Cotton Grower
○ Council Worker
○ Counsellors
○ Counsellors nec
Countdown Supervisor
○ Courier
Couriers and Postal Deliverers
O Court and Legal Clerks
Court Collections Officer
Court Registry Officer
Court Worker
CPH Dialysis Unit
○ Crane Chaser
Crane, Hoist and Lift Operators
Crane, Hoist or Lift Operator
Creative Director
Credit and Loans Officers (Aus)/Finance Clerks (NZ)
Credit Controller
Credit or Loans Officer
Crop Farm Worker
Crop Farm Workers nec
Crop Farmer
Crop Farmer
Crop Farmers nec
Crossing Supervisor
Crowd Controller
Cruise Ship Crew
Currently Not Working
Currently Not Working - Pregnant
Currently Unemployed
○ Custodian
 Customer Business Centre Consultant
 Customer Service Manager
 Customer Service Representative
○ Customer Services
Customs Officer
○ Cycalist
Cycle Courier
Cycling Coach
Oairy Cattle Farm Worker
O Dairy Cattle Farm Worker - Share Holder
O Dairy Cattle Farmer
O Dairy Factory Worker
O Dairy Farm Worker
O Dairy Farm Worker
O Dairy Farm Worker
Dairy Farmer
Dairy Farmer
O Dairy Farmer
Dairy Farmer (Carterton)
Dairy Operator
Dairy Owner
Dairy Products Maker
O Dairy Retail Assistant
O Dairy Retail Assistant
O Dance Teacher (Private Tuition)
O Dancer or Choreographer
O Data Entry From Home
O Data Entry Operator
Data Processing Analyst
Database Administrator
 Database and Systems Administrators, and ICT
Security Specialists
O Database and Systems Administrators, and ICT
Security Specialists
O Day Care Centre Worker
O Daycare Teacher
O Daycare Worker
O Debt Collector
O Debt Collectors

O Deck and Fishing Hands	
O Deck Hand	
O Deep Fryer	
O Deer Farmer	
Defence Force Member - Other RanksDefence Force Members - Other Ranks	
 Defence Force Members, Fire Fighters and Police 	
Defence Force Senior Officer	
O Delivery Driver	
O Delivery Drivers	
O Delivery Drivers	
O Dementia Worker	
O Demolition Labourer	
Dental AssistantDental Assistants	
Dental Assistants Dental Hygienist	
Dental Hygienists, Technicians and Therapists	
O Dental Practitioner	
Dental Prosthetist	
Dental Specialist	
O Dental Technician	
Dental Technician Dental Therepist	
Dental TherapistDentist	
Department Director General	
Department Of Corrections	
Oppt Of Justice	
O Deputy Principal	
O Deputy Registrar	
O Dermatologist	
DeseasedDesign Consultant	
Design ConsultantDesign, Engineering, Science and Transport	
Professional	
○ Designer	
O Desk Officer	
O Desktop Publisher	
Despatching and Receiving Clerk	
O Detailer	
DetectiveDeveloper	
Developer Programmer	
Diagnostic and Interventional Radiologist	
 Diary Farmer 	
Diesel Motor Mechanic	
ODietitian	
O Different Jobs	
Digger DriverDigital Consultant	
Digital Consultant Digital Plate Marker	
O Diplomat	
O Director	
Director (Film, Television, Radio or Stage)	
Director (Food Safety And Quality)	
O Director of Photography	
Disabilities Services OfficerDish Washer	
DistributionDispatch	
Dispatcher In A Factory	
 Dispensing Optician 	
Distribution	
O District Manager	
O District Nurse	
District NurseDistrict Nurse - Keri Keri	
District Nurse - Kerl Kerl Diver	
Diversional Therapist	
Diversional Therapists	
Diving Instructor (Open Water)	
ODoctor	
 Doctor-Retired 	

O Dog Breeder
O Dog Handler or Trainer
O Dog or Horse Racing Official
○ Domestic Cleaner
Domestic Cleaners
Domestic Housekeeper
○ Dominatrix
O Door And Window Fitter
O Door-to-door Salesperson
O Doorperson or Luggage Porter
O Douglas Park School
O Draft Person
O Draftsman
O Drain Layer
O Drain Layer
O Drainage Contractor
O Drainage Engineer
O Drainage Technician
O Drainage, Sewerage and Stormwater Labourer
O Drainlayer (NZ)
O Drama Teacher (Private Tuition)
O Draughtsman
Dressmaker or Tailor
O Driller
O Driller's Assistant
O Drillers, Miners and Shot Firers
O Driver
O Driver / Road Inspector
O Driving Instructor
O Driving Instructors
O Drug and Alcohol Counsellor
O Drycleaner
O Duty Cliinician
Outy Manager
Early Childhood (Pre-primary School) Teacher
○ Early Childhood (Pre-primary School) Teacher
Reliever
Early Childhood (Pre-primary School) Teachers
Early Childhood Centre Leader
○ Earth Rig Digger
Earth Science Technician
Earthmoving Labourer
Earthmoving Plant Operator
Earthmoving Plant Operator (General)
Earthwork Contractor
C ECC Teacher
C ECEC Teacher
C ECEC Worker
○ ECG Technician
○ Ecologist
© Economist
© Economists
○ Editor
Education Adviser
Education Advisers and Reviewers
Education Aide
Education Aides
Education Consultant
Education Facilitator At NZQA
Education Managers necEducation Professional
Education Reviewer
Education Support Worker
Education Team Leader
Education, Health and Welfare Services Managers
Educational Consultant
Educational Psychologist
© Educator
○ Electorate Officer
Electrical Distribution Trades Workers
Electrical Engineer

ELECTRICAL ENGINEER	
 Electrical Engineering Draftsperson 	
 Electrical Engineering Draftspersons and 	
Technicians	
Electrical Engineering Technician	
 Electrical Engineers 	
 Electrical Inspector 	
Electrical Line Mechanic	
Electrical Maintainer	
	cictont
○ Electrical or Telecommunications Trades As	ssistant
 Electrical Wholesaler 	
Electrician	
Electrician (General)	
Electrician (Special Class)	
Electricians	
 Electronic Assistant 	
 Electronic Engineering Draftsperson 	
 Electronic Engineering Draftspersons and 	
Technicians	
Electronic Engineering Technician	
 Electronic Equipment Trades Worker 	
 Electronic Instrument Trades Worker (Gene 	eral)
 Electronic Instrument Trades Worker (Spec 	
Electronics and Telecommunications Trade	
	3 WUIKEIS
Electronics Engineer	
 Electronics Engineers 	
Electronics Trades Workers	
Electroplater	
 Electrotechnology and Telecommunications 	s Trados
	s iraues
Workers	
 Emergency Management Technician 	
 Emergency Medicine Specialist 	
 Emergency Service Worker 	
○ Employee	
Employment Advisor	
 Endocrinologist 	
EndocrinologistEnergy Centre Operator	
EndocrinologistEnergy Centre OperatorEngineer	
EndocrinologistEnergy Centre OperatorEngineerengineer	
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 ○ Endocrinologist ○ Energy Centre Operator ○ Engineer ○ engineer ○ Engineer Nec ○ Engineering Manager ○ ENGINEERING MANAGER ○ Engineering Manager ○ Engineering Managers ○ Engineering Patternmaker ○ Engineering Production Systems Worker 	
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 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver 	
 Endocrinologist Energy Centre Operator Engineer engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians 	
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 Endocrinologist Energy Centre Operator Engineer engineer Engineer Nec Engineering Manager ENGINEERING MANAGER Engineering Manager Engineering Managers Engineering Patternmaker Engineering Production Systems Worker Engineering Production Workers Engineering Professionals Engineering Professionals nec Engineering Technologist Engineering, ICT and Science Technicians Engraver Enrolled and Mothercraft Nurses Enrolled Nurse 	
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\sim	Excavator Operator
\cup	Exchange Student
\circ	Executive Assisstant
\circ	Exercise Physiologist
Ō	Exhaust and Muffler Fitter
Ō	Exporting Cattle
\bigcirc	External Auditor
Ŏ	Eve Surgeon
Ŏ	Eye Surgeon Ezibuy Wellington
Ŏ	Fabric and Textile Factory Worker
	Fabrication Engineering Trades Worker
	Fabricator Installer
Ŏ	Facilitator
Ŏ	Facilities Administrator
Ŏ	Facilities Advisor
	Facilities Manager
	Factory Hand Fibreglass Moulding
Ŏ	Factory Inghams
	Factory Manager
	Factory Process Worker
Ŏ	Factory Process Workers nec
	Factory Supervisor
	Factory Worker
	Factory Worker
Ŏ	Factory Worker
Ŏ	Factory Worker
Ŏ	Factory Worker - Mussels
	Factory Worker (food)
	Faculty Head
	Family and Marriage Counsellor
	Family Business Employee
Ō	Family Bussiness
	Family Day Care Worker
	Family Support Worker
\circ	Family Therapist
0	Farm Adviser
\circ	Farm Advisor
	Farm Advisor Farm Cadet
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000	Farm Cadet Farm Hand Farm Manager
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000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farmer, Forestry and Garden Workers nec Farmer Farmer Self Employed Farmer/Farm Hand Farmer/Stay At Home Farmer/Stay At Home Farmers and Farm Managers
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000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farmer, Forestry and Garden Workers nec Farmer Farmer Self Employed Farmer/Farm Hand Farmer/Stay At Home Farmer/Stay At Home Mother Farmers and Farm Managers Farmkill Slaughterman Farmyard Valley Road
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000000000000000000000000000000000000000	Farm Cadet Farm Hand Farm Manager Farm Worker Farm Worker Farm Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Worker Farm, Forestry and Garden Workers nec Farmer Farmer And Farm Manager Farmer Self Employed Farmer/Farm Hand Farmer/stay At Home Farmer/Stay At Home Mother Farmers and Farm Managers Farmkill Slaughterman Farmyard Valley Road Farrier Farrier Fashion Designer Fashion, Industrial and Jewellery Designers
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○ Field Crop
○ Field Crop
Field Crop Farm Worker
Field Ranger And Dog Handlerfield Scientist
ield Scientist
Filinance Manager
Filing and Registry Clerks
Filing or Registry Clerk
Filling Assistant - Supermarket
Film and Video Editor
in Producer
Film Producer/Zumba Instructor
Film, Television, Radio and Stage Directors
Film, Television, Radio and Stage Directors necFinance
FINANCE ACCOUNTANT
Finance And Permit Officer
○ Finance Broker
Finance Manager
○ Finance Manager
○ Finance Managers
Financial Advisor
Financial and Insurance Clerks
Financial AuditorFinancial Brokers
Financial Brokers and Dealers, and Investment
Advisers
○ Financial Brokers nec
Financial Clerk
Financial Controller
Financial Dealers
Financial Dealers nec
Financial Institution Branch ManagerFinancial Investment Adviser
Financial Investment Advisers and Managers
Financial Investment Manager
Financial Market Dealer
Fire and Emergency Workers
○ Fire Fighter
Fire Fighter
Fire Protection Equipment Technician
First Aid TrainerFish And Chips Worker
Fish Factory Worker
Fish N Chip Shop
Fisheries Officer
Fishery Worker
Fishing Charter
Fishing Guide
Fishing Hand
Fitness Centre ManagerFitness Instructor
Fitness Instructors
Fitter (General)
Fitter and Turner
Fitter-Welder
○ Fleet Manager
Flight Attendant
Flight Attendant
Flight Attendant Supervisor
Flock CaregiverFloor Finisher
Floor Finishers
Floor Finishers and Painting Trades Workers
○ Floor Layer
Florist
Florists
Flower Grower
○ flower Packer

C Fontorra	
FonterraFood and Drink Factory Workers	
From and Drink Factory Workers	
Food and Drink Factory Workers nec	
Food Chemist	
Food Delivery	
Food Factory Worker	
Food Handler	
Food Handler	
Food Preparation Assistant	
Food Preparation AssistantsFood Process Workers	
Food Process Workers	
Food Safety Officer	
Food Services Manager	
Food Techician	
Food Technician	
Food Technologist	
Food Trades Assistants	
Food Trades Assistants	
Cond Trades Workers	
Food Trades Workers	
Food Trades Workers	
Food Truck Operator	
Food Worker	
Food Worker At McDonalds (Clendon))
Footballer	
Footwear Factory Worker	
 Footwear Production Machine Operat 	or
Force Mechanic	
Foreign Exchange Officer	
Foreign Worker	
Foreman	
Forest Scientist	
Forestry Consultant	
Forestry Worker	
Forestry, Logging Worker	
Forklift Driver	
Forklift Driver	
O Forklift Operator	
Forklift Operator ENZA	
Foster Parent	
Foundry Worker	
Free Lance Photographer / Writer	
Freelance Editor	
Freelance Journalist Freelance Work	
Freelance Work	
Freelance Writer - Works From Home	
Freezing Worker	
Freezing Worker/Processor	
Freight and Furniture Handlers	
Freight Handler (Rail or Road)	
 Freight Handlers and Shelf Fillers 	
 Fruit and Vegetable Factory Worker 	
 Fruit and Vegetable Packer 	
Fruit or Nut Farm Worker	
Fruit or Nut Grower	
Fruit or Nut Picker	
○ Fruit or Nut Picker○ Fruit Packer	
Full Time Mother	
Fulton Hogan - Sewage Contractor	
○ Fund Manager	
Funeral Director	
Funeral Workers	
Funeral Workers nec	
Furniture Finisher	
C Furniture Maker	
Furniture MakerFurniture RemovalistFurniture Remover	
C Furniture Remover	
O Furniture Remover	
Furniture Restorer	
Futures Trader	
() Gallory or Musoum Curator	
○ Gallery or Museum Curator○ Gallery or Museum Guide	

Gallery or Museum Technician	
 Gallery, Library and Museum Technicians 	
\bigcirc Gallery, Museum and Tour Guides	
○ Game Controller	
○ Gaming Worker	
Gaming Workers	
 Garden and Nursery Labourer 	
Garden Labourer	
igcirc gardener	
Gardener (General)	
Gardeners	
○ Gardeners	
Gas or Petroleum Operator	
Gasfitter	
○ Gastroenterologist	
General Clerical Workers	
○ General Clerk	
○ General Clerks	
○ General Clerks	
General Dental Practice; Clinical Director Max	(IIIO
Facial Unit	
○ General Manager	
 General Medical Practitioner 	
 General Pactitioner - Locum 	
General Practice (Doctor)	
 General Practitioner 	
 General Practitioners and Resident Medical O 	fficers
General Worker	
○ Geologist	
Geologist Engineer	
 Geologists, Geophysicists and Hydrogeologis 	ts
Geophysicist	
Geotechnical Engineer	
Geothermal Maintenance Technician	
○ Gib Fixer	
Glass Blower	
Glass Processing Worker	
Glass Production Machine Operator	
Glazier	
○ Glaziers	
○ Glaziers ○ Glaziers, Plasterers and Tilers	
Goat Farmer	
○ Golfer	
○ Government Employee	
O Government Service	
○ Grader Operator	
○ Grading Supervisor (Food Handler)	
Grain Mill Worker	
○ Grape Grower	
 Graphic and Web Designers, and Illustrators 	
 Graphic Arts Worker 	
 Graphic Designer 	
 Graphic Pre-press Trades Worker 	
 Graphic Pre-press Trades Workers 	
Greenkeeper	
Grocery Store Manager	
Grocery Store Supervisor	
○ Groundsman	
○ Grower Liaison	
Guidance Counsellor	
O Gunsmith	
Gym Equipment Fixer	
Gym Instructor	
Gymnastics Coach or Instructor	
Haematologist Hair Dressing Teacher	
Hair Dressing Teacher	
Hair Dressing TeacherHair or Beauty Salon Assistant	
Hair Dressing TeacherHair or Beauty Salon AssistantHair or Beauty Salon Manager	
Hair Dressing TeacherHair or Beauty Salon Assistant	

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Hairdresser (home-based)	
○ Hairdressers	
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Handyman	
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Hardware Technician	
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O Head Nurse	
Health And Safetey	
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 Health and Welfare Services Managers 	
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 Health and Welfare Support Worker 	
Health and Welfare Support Workers	
Health Assistant	
Health Care Assistant	
 Health Care Assistant 	
 Health Diagnostic and Promotion Professions 	als
Health Diagnostic and Promotion Professional	
Health Information Manager	J.5 1.00
Health Meciation Packing	
 Health Practice Manager 	
Health Professional	
Health Promotion Officer	
Health Services	
Health Services Manager	
 Health Therapy Professionals 	
Health Worker	
Health Worker	
Healthcare - Caregiver	
Healthcare Staff	
 Healthcare Worker 	
Healthline Nurse (Call Centre)	
Helicopter Pilot	
Herald Distributor	
Herbalist	
Herbalist (Western)	
Herd Tester	
HG Group Ltd	
Hide and Skin Processing Machine Operator	
Hide and Skin Processing Worker	
 High School PE Teacher 	
High School Student	
 High School Teacher 	
◯ Hire A Hubby	
Historian	
Holiday Park Owner	
 Holiday Programme Worker 	
Home Care Assistant	
Home Carer For Her Parents	
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O Home Duty	
Home Econmics Teacher	
Home Executive	
○ Home Help	
Home Improvement Installer	
Home Kill Butcher	
 Home Maintenance Contractor 	
Home Teaching	
Homebased Childcare	
Homebased Childcare	
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O Homecare Assistant	
○ Homemaker	
Homemaker Painting	
Homestay Owner/Operator	
Homoeopath	
O Horse Breeder	
○ Horse Dentist	

Horse Rider	
Horse Riding Coach or Instructor	
Horse Trainer	
 Horticultural Nursery Assistant 	
 Horticultural Trades Worker 	
Horticulturalist	
Horticulture Worker	
O Horticulturist	
Hospital Laboratory Technician	
Hospital Nurse	
Hospital Orderly	
Hospital Pharmacist	
Hospital Receptionist	
Hospital Volunteer Worker	
O Hospital Worker	
Hospitality Worker	
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Hotel or Motel Receptionist	
Hotel Service Manager	
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O Hotel Worker	
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○ Hotelier	
House Husband	
House Painter	
O House Wife	
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○ ICT Quality Assurance Engineer○ ICT Sales Assistant	
O ICT Sales Assistants	
○ ICT Sales Professionals	
○ ICT Sales Representative	
 ICT Security Specialist 	
 ICT Support and Test Engineers 	
○ ICT Support and Test Engineers nec	
ICT Support Engineer	
ICT Support Technicians nec	
O ICT Systems Test Engineer	
O ICT Technician	
O ICT Trainer	
O ICT Trainers	
○ ICU Non Clinical	
○ Illustrator	
Immigration Consultant	
○ Immigration Officer	
Implementation Manager	
○ Import-Export Clerk	
Import Export Glerk Importer or Exporter	
Importers, Exporters and Wholesalers	
Olymprovement Officer	
In mental health facility	
O In prison	
O In-home Care	
Independent Midwife	
 Indigenous Health Workers 	
 Industrial Designer 	
 Industrial Electrician 	
Industrial Engineer	
 Industrial Operation Manager 	
○ Industrial Pharmacist	
Industrial Spraypainter	
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Intermediate School Teacher
O Internal Auditor
Internal Medicine Specialists necInternational Aid
International AidInternational Marketing Director
International Student
Interpreter
Invalid Beneficiary
Inventory Officer
Inventory Purchaser
Investigator
O Investment Advisor
O IRD Coach
○ Ironer or Presser○ Irrigation Engineer
Irrigation Engineer Irrigation Installer
IT Administrator
○ IT Consultant
IT Consultant
◯ It Manager
○ IT Manager
○ IT Professional
IT Professional Currently Not Working
○ IT Project Manager○ IT Sales
○ IT Specialist
IT Support Management
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O IT Worker
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○ ITG Group
○ Janitor○ Jeweller
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 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist
 Jewellery Designer Jewellery Sales Assistant JNL Job Seeker Jockey Joiner Journalist Journalists and Other Writers
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) Kumara Processor
) Lab Technician - Orthodontist
) Lab Worker
) Laboratory Manager
	Laboratory Receptionist
) Laboratory Technician) Laboratory Worker
) Laboratory Worker
) Laboratory Worker/Chemical Engineer
) Labourer
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) Land Surveyor
) Landscape
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) Landscape Designer
) Landscape Designer) Landscape Gardener
) Laundress
) Laundromat Worker
	Laundry Assistant
	Laundry Assistant
	Laundry Stylist
	Laundry Worker
	Laundry Worker (General)
	Laundry Workers
) Law Clerk
\subseteq) Lawnmowing Operator
) Lawyer
) Lead Lighter) Leaflet or Newspaper Deliverer
) Leaflet or Newspaper Deliverer
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 Livestock Handler 	
Livestock Transport	
 Livestock Truck Cleaner 	
○ Loader	
Loader Operator	
 Local Government Legislator 	
○ Locksmith	
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 Locomotive Engineer 	
Lodge Manager	
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Log Buyer	
Log Grader	
Log Painter	
Logging Assistant	
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Maritime Brokerage
Market Garden Worker
○ Market Gardener
Market Research Analyst
Marketer
○ Marketing Manager
Marketing Specialist
Marketing/customer Services
Martial Arts Instructer
Massage Therapist
Massage Therapists
○ Master Fisher
Masters Student
○ Mat Maker
Materials Engineer
Materials Recycler
Maternity Leave
Mathematician
Meat Boner and Slicer
 Meat Boners and Slicers, and Slaughterers
Meat Factory Worker
Meat Inspector
Meat Packer
Meat Process Worker
O Mark Trocess Worker
Meat Worker
Meat Worker
○ Mechanic
Mechanic / Soldier
○ Mechanic Team Leader
Mechanic's Assistant
Mechanical Engineer
Mechanical Engineer
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Metal Engineering Process Workers
Metal Fabricator
Metal Fitters and Machinists
Metal Machinists nec
Metal Machinist (First Class)
Metal PolisherMetal Worker
Metallurgical or Materials Technician
✓ Metallurgist✓ Meteorologist
Meter Reader
○ Microbiologist
Middle School Teachers (Aus) / Intermediate School
Teachers (NZ)
Midwife
Midwifery and Nursing Professionals
Midwives
Military Rifleman
Milk Harvester / Calve Rearer
Milk Tanker Driver
○ Milker
Milking Machine Fitter And Water Pump Technician
Mine Deputy
Mine Supervisor
Miner
Mining Engineer (excluding Petroleum)
Mining Support Worker
Minister of Religion
Ministerial Lead Advisor
Ministers of Religion
Ministry Of Education
Ministry Of Education
Ministry Of Justice
Ministry Of Justice Worker
Ministry Of Social Development
Ministry Of Transport Miscellaneous Clarical and Administrative Workers
Miscellaneous Clerical and Administrative WorkersMiscellaneous Education Professionals
Miscellaneous Factory Process Workers
Miscellaneous Hospitality, Retail and Service
Managers
○ Miscellaneous Labourers
Miscellaneous Sales Support Workers
Miscellaneous Specialist Managers
Miscellaneous Technicians and Trades Workers
Missionary
Mixed Crop and Livestock Farm Worker
Mixed Crop and Livestock Farm Worker
 Mixed Crop and Livestock Farmer
 Mixed Crop and Livestock Farmer
Mixed Crop Farmer
Mixed Livedstock Producer
Mixed Livestock Farm Worker
Mixed Livestock Farmer
Mobile Lending Manager
○ Mobile Lending Manager (ASB)
Mobile Plant Operator
Mobile Plant Operators
Mobile Plant Operators nec
Model
Models and Sales Demonstrators
Modern Transport Engineer
Money Eychange Worker
Money Exchange WorkerMoney Market Clerk
Monk
Monumental Mason
Mortgage Broker
Moss Factory
Moss Factory Worker

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○ Moss Worker	
Motel Owner	
○ Motelier	
○ Mother	
Mother And Part-time Yoga Teacher	
Mother At Home	
Mothercraft Nurse	
Motion Picture Projectionist	
Motor Mechanic (General)	
 Motor Vehicle and Vehicle Parts Salesp 	persons
 Motor Vehicle Licence Examiner 	
 Motor Vehicle or Caravan Salesperson 	
Motor Vehicle Parts and Accessories Fi	tter
(General)	
Motor Vehicle Parts and Accessories Fi	tters
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Motorcycle Mechanic Materials And Corresponding to the property of the control of the c	
Motorhome And Caravan Maintenance	
Mountain or Glacier Guide	
Moving Weeds	
 Multimedia Designer 	
 Multimedia Specialist 	
Multimedia Specialists and Web Development	opers
Mum And Farm Worker	•
Mushroom Picker	
Music Director	
Music Professionals	
Music Professionals nec	
Music Store Owner	
Music Teacher (Private Tuition)	
 Musical Instrument Maker or Repairer 	
Musician	
Musician (Instrumental)	
Muster	
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○ Note Taker
Noxious Weeds and Pest Inspector
Nuclear Medicine Technologist
Nuclear Physicist
Numerical Clerks
Nun
Nurse
Nurse
Nurse Pre/Post Natal
Nurse Aide
Nurse Aide/Healthcare Asst
Nurse Educator
Nurse Educators and Researchers
○ Nurse Manager
○ Nurse Managers
○ Nurse Practitioner
Nurse Researcher
Nurse Specialist
Nurse Team Leader
Nurse-Former
Nurse/Midwife
Nurseryperson
Nurserypersons Nurses And Midwifery
Nurses And Midwifery
Nursing Clinical Director
Nursing Student
Nursing Support and Personal Care Workers
○ Nursing Support Worker
Nutrient Specialist
Nutrition Professionals
○ Nutritionist
NZ Post
NZ Racing Board
NZDF
() NZTA
NZTA Obstetrician and Gynaecologist
Obstetrician and Gynaecologist
Obstetrician and GynaecologistOccupational and Environmental Health Professionals
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Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Managers Office Manager Office Manager Office Manager Office Managers Office Morker Office Worker Office Tadet Oil Rigger Oncology Worker Operations Manager Operations Manager Operations Research Analyst
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Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Managers Office Manager Office Manager Office Manager Office Managers Office Morker Office Worker Office Tadet Oil Rigger Oncology Worker Operations Manager Operations Manager Operations Research Analyst
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Managers Office Worker Office Tcadet Oil Rigger Oncology Worker Operating Theatre Technician Operations Manager Operator Operator Ophthalmologist
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Morker Office Worker Office Todet Oil Rigger Oncology Worker Operations Manager Operations Research Analyst Operator Ophthalmologist Opthalmologist
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Managers Office Managers Office Managers Office Morker Office Worker Office Tcadet Oil Rigger Oncology Worker Operations Manager Operations Manager Operations Research Analyst Operator Ophthalmologist Opthalmologist Optical Assistant
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Managers Office Worker Office Tadet Oil Rigger Oncology Worker Operations Manager Operations Manager Operations Research Analyst Operator Ophthalmologist Optical Assistant Optical Mechanic
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Worker Office Tadet Oil Rigger Oncology Worker Operating Theatre Technician Operations Manager Operations Research Analyst Optical Assistant Optical Mechanic Optometrist
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Worker Office Teadet Oil Rigger Oncology Worker Operations Manager Operations Manager Operations Research Analyst Operator Opthalmologist Opthalmologist Optical Assistant Optometrist Optometrist Assistant
Obstetrician and Gynaecologist Occupational and Environmental Health Professionals Occupational Health and Safety Adviser Occupational Therapist Occupational Therapists Odd Job Man Office Administrator Office Administrator Office Administrator Office and Practice Managers Office Cashier Office Manager Office Manager Office Managers Office Worker Office Tadet Oil Rigger Oncology Worker Operating Theatre Technician Operations Manager Operations Research Analyst Optical Assistant Optical Mechanic Optometrist

Orchard Manager
Orchard Worker
Orchardist
Order Clerk
○ Order Clerk○ Order Filler
Organic Farm Worker
Organic Farm Worker
Organisation and Methods Analyst
Organisational Consultant
Organisational Psychologist
Orthopaedic Surgeon
Orthoptist
Orthotist or Prosthetist
Osteopath
○ Other
Other Accommodation and Hospitality Managers
Other Building and Engineering Technicians
Other Cleaners
Other Clerical and Administrative Workers
Other Clerical and Office Support Workers
Other Construction and Mining Labourers
Other Education ManagersOther Engineering Professionals
Other Factory Process WorkersOther Farm, Forestry and Garden Worker
Other Health Diagnostic and Promotion Professionals
Other Hospitality Workers
Other Hospitality, Retail and Service Managers
Other Information and Organisation Professional
Other Labourers
Other Machine Operators
Other Miscellaneous Clerical and Administrative
Workers
Other Miscellaneous Labourers
Other Miscellaneous Technicians and Trades Workers
Other Mobile Plant Operators
Other Natural and Physical Science Professionals
Other Personal Service Workers
Other Sales Support Worker
Other Sales Support Workers
Other Spatial Scientist
Other Specialist Manager
Other Sports Coach or InstructorOther Sports Official
Other Stationary Plant Operators
Other Technicians and Trades Workers
Other Wood Processing Machine Operator
Otorhinolaryngologist
Out of School Hours Care Worker
Out of School Hours Care Worker (Oscar)
Outdoor Adventrue Consultant
Outdoor Adventure Guide
Outdoor Adventure Guides nec
Outdoor Adventure Instructor
Outdoor Education
Oyster Farmer
Oyster Shucker
Pacific Ambassador
O Pacific Health Advisor
PackersPackers and Product Assemblers
Packers and Product Assemblers Packers nec
Packers fiec Packhouse Worker
PACT House Patient
Paediatric Surgeon
Paediatrician
Paint Stripper
O Painter
O Painter (Visual Arts)
O Painter (Visual Arts)

O Painting Trades Worker
Painting Trades Workers
○ Pak N Save
○ Panelbeater
O Panelbeaters, and Vehicle Body Builders, Trimmers
and Painters
Paper and Pulp Mill Operator
Paper and Pulp Mill Worker
 Paper and Wood Processing Machine Operators
Paper Products Machine Operator
Parasail Skipper
○ Park Ranger
Parking Inspector
Parole or Probation Officer
Part Rime Cab Driver
O Part time Cab Driver
Part Time Student /Part Time Retail Assistant
Part Time Supermarket Worker And High school
Student
Part-time Accountant
Part-time Construction Worker
Part-time Construction Worker
O Part-time Driver
O Part-time Farmer
O Parts Manager
O Parts Supervisor
Passenger Coach Driver
Pastor
O Pastrycook
O Pastrycook's Assistant
O Patents Examiner
O Pathologist
Pathology Collector (Aus)/Phlebotomist (NZ)
O Patient Advocate
Patient Information Officer
Paving and Surfacing Labourer
Paving and Surfacing Labourers
O Paving Plant Operator
O Payments Administrator
O Payroll Clerk
O Payroll Clerks
O Peer Support Co Ordinator
Performing Arts Technicians
O Performing Arts Technicians nec
O Personal Assistant
Personal Assistants
Personal Assistants and Secretaries
O Personal Assistants and Secretaries
Personal Care Assistant
Personal Care Consultants
Personal Carers and Assistants
Personal Service and Travel Workers
Personal Service Workers nec
O Personal Trainer
O Pest Controller
Pest Controller And Enviro Schools
Pest or Weed Controller
O Pet Groomer
Petfood Worker
Petrol Garage Worker
Petroleum Engineer
PG Wrightson Administrator
O Pharmacist
O Pharmacist
Pharmacutical Production Manager
Pharmacy Sales Assistant
Pharmacy Sales Assistants
Pharmacy Technician
Pharmacy Technician
PhD Student
O Phlebotomist
O I III COOCOITII SC

Phlebotomist
Photographer
Photographer's Assistant
○ Photographers
O Photographic Developer and Printer
O Photographic Developers and Printers
Phys Ed Officer
Physi Ed Office
PhysicianPhysicist
Physic Assistant/Parent
Physiotherapist
O Physiotherapists
Piano Teacher
Picture Framer
O Pig Farmer
O Pilates Teacher
O Pilot
O Pipeline Engineer
O Pizza Delivery
O Plant Nursery Worker
○ Plasterer
○ Plasterers
 Plastic and Reconstructive Surgeon
Plastic Cablemaking Machine Operator
Plastic Compounding and Reclamation Machine
Operator
O Plastics and Rubber Factory Workers
Plastics and Rubber Production Machine Operators
Plastics and Rubber Production Machine Operators
Nec
Plastics Fabricator or Welder
Plastics Factory WorkerPlastics Process Worker
Plastics Production Machine Operator (General)
Plastics Technician
Plumber
Plumber (General)
Plumber Commercial
Plumber's Assistant
○ Plumbers
Plumbing and Drainage Inspector
O Plumbing Contractor
Plumbing Inspector
O Plumbing Retail
○ Plunket Nurse
Podiatrist
○ Podiatrists
○ Police
O Police Detective
O Police Officer
O Police Officer Trainee
O Police Woman
Policeman Policy Advisor
Policy AdviserPolicy Analyst
O Policy and Planning Manager
O Policy and Planning Managers
Policy Officer
Politician
O Polytechnic Teacher
Pool Attendant
O Pool Manager
Pool Supervisor
O Porse
O Port Worker
O Portfolio Manger
O Possum Trapper
O Possum Trapper
O Post Graduate Student
O Post Mistress

\cup	Doct Office Manager
$\tilde{}$	Post Office Manager
	Postal Delivery Officer
\circ	Postal Delivery Service
	Postal Sorting Officer
	Postman
	Potato Farmer
	Potter or Ceramic Artist
\circ	Pouako Kura Kaupapa M
\bigcirc	Poultry Farm Worker
	Poultry Farmer
	Poultry Process Worker
	Poultry Worker
	Power Generation Plant Operator
\bigcirc	Practice Managers
	Practice Managers nec
	Practice Nurse
_	
_	Pre And Afterschool Care
	Pre School Music Group
\circ	Pre-schooler
	Precision Instrument Maker and Repairer
	Precision Metal Trades Workers
	Preschool Aide
	Preschool Co-ordinator
\circ	Preschool Teacher
\bigcirc	Preschooler
$\tilde{\cap}$	Press Secretary
\simeq	Pressure Welder
	Pricing Analyst
	Priest
\bigcirc	Primary Health Organisation Manager
	Primary Products Inspectors
	Primary Products Inspectors nec
Ŏ	Primary school student
\circ	Primary School Teacher
\circ	Primary School Teacher Aide
~	
()	Primary School Teachers
	Primary School Teachers
Ó	Primary Teacher
0	Primary Teacher Principal Adviser
000	Primary Teacher Principal Adviser Principal Policy Planner
000	Primary Teacher Principal Adviser Principal Policy Planner
0000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release
00000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers
000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist
0000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer
00000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer
00000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer
000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant
0000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers
000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Program Coordinator
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Program Coordinator Prisoner
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Program Coordinator Prisoner
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Tutors and Teachers
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officer Prison Program Coordinator Prisoner Private Investigator Private Tutors and Teachers Private Tutors and Teachers
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officer Prison Officer Prison Program Coordinator Prisoner Private Investigator Private Tutors and Teachers Private Tutors and Teachers Private Tutors and Teachers Process Packer
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Tutors and Teachers Private Tutors and Teachers Process Packer Process Worker
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Tutors and Teachers Private Tutors and Teachers Process Packer Process Worker
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Trable Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Private Investigator Private Tutors and Teachers Private Tutors and Teachers Process Worker Processing Manager
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Guard Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Processing Manager Procurement Director
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Packer Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket Product Assembler
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket Product Assembler
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket Product Assembler Product Assemblers Product Controller
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket Product Assemblers Product Controller Product Examiner
000000000000000000000000000000000000000	Primary Teacher Principal Adviser Principal Policy Planner Principal Release Print Finishers and Screen Printers Print Journalist Printer Printer Printer's Assistant Printing Assistants and Table Workers Printing Machinist Printing Table Worker Printing Trades Worker Printing Trades Workers Prison and Security Officers Prison Officer Prison Officers Prison Program Coordinator Prisoner Private Investigator Private Nanny Private Tutors and Teachers Private Tutors and Teachers Process Worker Process Worker Processing Manager Procurement Director Procurement Manager Produce Worker - Supermarket Product Assembler Product Assemblers Product Controller

	Product Manager
	Product Quality Controllers
	Product Scanner
\bigcirc	Product Tester
	Production Assistant (Film, Television, Radio or
	Stage)
	Production Clerk
	Production Designer
	Production Manager
	Production Manager (Forestry)
\circ	Production Manager (Manufacturing)
\bigcirc	Production Manager (Mining)
$\tilde{\bigcirc}$	Production Manufacturer
	Production or Plant Engineer
	Production Planner
\simeq	Production Planner
\bigcirc	Production Planner
	Production Worker
\circ	Professional Triathlete
	Professionals
	Professor/Lecturer
	Professor/Lecturer (Retired)
	Program Director (Television or Radio)
\simeq	Program or Project Administrator
	Programme Advisor
	Programme And Operations Coordinator
\circ	Programme Manager
\bigcirc	Programmer
	Project Builder
	Project Coordinator
\simeq	Project Manager
\simeq	Project Manager
\mathcal{C}	Project Manager
	Project Manager In Chrishchurch
Õ	Project Manager Security
	Proof Reader
\circ	Property Agent
\circ	Property Development Manager
Ŏ	Property Maintenance
	Property Manager
	Property Valuer
	Prostitute
	Protective Service Workers
_	Prothesist
	PSA Organiser
	Psychiatric Nurse
\circ	Psychiatrist
$\tilde{\bigcirc}$	Psychiatrists
	Psychologist
	Psychologists nec
\sim	Psychotherapist
	Public Health Engineer
	Public Health Nurse
	Public Relations Manager
	Public Relations Professional
$\overline{\bigcirc}$	Public Relations Professionals
	Public Servant
	Publications Manager
	Publicist At NZ Film Festival Trust
\sim	Publisher
	Purchasing and Supply Logistics Clerks
	Purchasing Officer
	Quadrant Hotel
\circ	Quality Assurance
\cap	Quality Assurance Manager
	Quantity Surveyor
	Quantity Surveyor
	Quarantine Officer
\simeq	Quarry Worker
\supset	Quarry Worker
	R And D Technologist
\circ	Radiation Oncologist
	Radiator Fitter
Ō	Radiator Repair

	Radiator Repairs
	Radio Despatcher
	Radio Journalist
_	Radio Presenter
_	Radiocommunications Technician
	Radiologist
	Radiology Assistant
	Railway Signal Operator
\sim	Railway Station Manager
	Railway Track Plant Operator Railway Track Worker
	Railway Track Workers
	Railways Assistant
	Real Estate Agency Licensee
	Real Estate Agent
	Real Estate Agent
	Real Estate Representative
	Real Estate Sales Agents
	Real Estate Sales Agents
	Realty Estate Agent
Ó	Rec Planner
	Receptionist
	Receptionist (General)
	Receptionists
	Records Manager
	Recreation Clerk
	Recreation Coordinator
	Recruitment
_	Recruitment Consultant
	Recruitment Manager
	Recycling and Rubbish Collectors
	Recycling Worker
	Recycling Worker Reduced To Clear
	Refinery Worker
	Refrigeration Engineer
	Refrigeration Engineer
	Refrigeration Mechanic
$\tilde{\circ}$	Refrigeration Specialist
	Refrigeration Technician
	Refuge Worker
	Refugee
	Refugee
Ō	Refuse Collector
Ó	Regional Education Manager
	Registered Nurse
	Registered Nurse
	Registered Nurse (Aged Care)
	Registered Nurse (Child and Family Health)
	Registered Nurse (Community Health)
	Registered Nurse (Critical Care and Emergency)
	Registered Nurse (Developmental Disability)
	Registered Nurse (Disability and Rehabilitation)
	Registered Nurse (Medical Practice) Registered Nurse (Medical)
	Registered Nurse (Mental Health)
	Registered Nurse (Paediatric)
	Registered Nurse (Perioperative)
	Registered Nurse (Surgical)
	Registered Nurses
	Registered Nurses nec
	Registrar Wellington High Court
	Rehabilitation Counsellor
	Reinforced Plastic and Composite Production Worker
	Relief Daycare Teacher
	Relief Milker
	Relief Secondary School Teacher
	Relief Teacher
	Religious Assistant
	Renal Medicine Specialist
\circ	Rental Salesperson

Reporter
Research Admin
Research Analyst
Nesearch Analyst
Research and Development Manager
 Research and Development Managers
Research Assistant
Research Manager
Research Technician
Researcher
Resident Medical Officer
Residential Care Officer
O Residual Cotagonica (Operational Codes entre)
Residual Categories (Operational Codes only)
Residual Categories (Operational Codes only)
Resource Developer For Education Programmes
Response not identifiable
Response Outside Scope
Response Outside Scope
Response Outside Scope/Not Stated
Response Unidentifiable
Restaurant Owner
Restaurant Worker
Restaurant Worker
Resthome Nurse
Resthome Resident
Resthome Worker
Resthome Worker - Activity Coordinator
○ Retail
Retail and Wool Buyers
Retail Assistant
O Batall Brown
○ Retail Buyer
Retail Investigator
Retail Loss Prevention Officer
○ Retail Manager
Retail Manager (General)
Retail Managers
Retail Pharmacist
O Retail Fliatiliacist
Retail Pharmacist Assistant
Retail Supervisor
Retail Supervisors
Retail Work
Retail Work
Retail/Student
○ Retailer
Retailer Shop
Reticulation Technical Officer
O Detined
Retired
○ Retired
Retired (lives In A Resthome)
Retired Accountant
Retired Banker
Retired but working as part-time Teacher
Retired Church Minister
Retired Farmer
Retired Farmer
Retired Farmer Living On Farm
○ Retired GP
Retired Kindergaten Teacher
Retired Midwife
Retired Nurse
Retired Pharmacist
Retired/Farming
Retirement Home Resident
Retirement Village Manager
○ Rheumatologist
Road and Rail Drivers
○ Road Labourer
○ Road Marker
Road Roller Operator
Road Safety Coordinator
Road Traffic Controller
Road Traffic Controller
O NOGO TRAINE CONTROLLER

○ Road Worker
○ Roof Plumber
○ Roof Tiler
O Roof Tilers
Roofer
Room Services (Cleaner)
Rose Breeder
RSE Supervisor
Rubber Factory Worker
Rubber Production Machine Operator
Rugby Player
Rural Bank Manager
Rural Bank Worker
Safety Inspector
Safety Inspectors
Sail Maker
○ Sailor○ Sales Administrator
Sales And Marketing - Other
Sales and Marketing - Other Sales and Marketing Manager
Sales Assistant (General)
Sales Assistants (General)
Sales Assistants and Salespersons
Sales Assistants and Salespersons
Sales Assistants and Salespersons nec
Sales Centre Supervisor
Sales Clerk
Sales Consultant
Sales Consutant
Sales Demonstrator
Sales Engineer
Sales Engineer
Sales Manager
Sales Manager
○ Sales Person
○ Sales Person
Sales Person In Own Home
Sales Representative
Sales Representative (Building and Plumbing
Supplies)
Calac Bangacantativa (Business Carvisas)
Sales Representative (Business Services)
Sales Representative (Industrial Products)
Sales Representative (Industrial Products)Sales Representative (Medical and Pharmaceutical
Sales Representative (Industrial Products)Sales Representative (Medical and Pharmaceutical Products)
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories)
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods)
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson
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 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmilling Operator Scaffolder Schindlers Lifts
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Sawmilling Operator Scaffolder Schindlers Lifts School Aide
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesperson Salmon Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Sawmilling Operator Scaffolder Schindlers Lifts School Aide School Care Taker
 Sales Representative (Industrial Products) Sales Representative (Medical and Pharmaceutical Products) Sales Representative (Motor Vehicle Parts and Accessories) Sales Representative (Personal and Household Goods) Sales Representatives Sales Representatives and Agents Sales Representatives nec Sales Supervisor - Retail Sales Support Worker Sales Worker Sales, Marketing and Public Relations Professionals Salesman Salesman - Car Salesman - Car Salesman Farmer Salvation Army Sand Blaster Saw Maker and Repairer Sawmill Engineer Sawmill or Timber Yard Worker Sawmilling Operator Scaffolder School Aide School Care Taker School Care Taker
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School Dental Nurse
○ School Girl
School Laboratory Technician
School Librarian
○ School Photographer
School Principal
○ School Principals
○ School Worker
Schoolboy
○ Schoolgirl
○ Science Technician
Science Technicians nec
Science/tech Professional
○ Scientist
Scrap Metal Dealer
Scrap Metal Worker
Screen Printer
Scrub Cutter
○ Sculptor
Seafarer
Seafood Packer
Seafood Process Worker
Sealords
Seaman
Seamstress
Seasonal Worker
Secondary school student (over 16)
Secondary school student (under 16)
Secondary School Teacher
Secondary School Teachers
Secretaries
Secretary (General)
Security Assurance Consultant
Security Consultant
Security Guard
Security Guard (Courts)
Security Oddia (Courts)
Security Officers and Guards
Security Officers and Guards nec
Security Supervisor
Seed Dresser
Self - Employed Counsellor
Self Employed
Self Employed
Self Employed
Self Employed - Construction
Self Employed - Recruitment
Self Employed - Retail
Self Employed Administration For Sports Epquipment
Company Self Employed At Home
Self Employed Bar Manager
Self Employed Coach Painter
Self Employed Coach Painter
Self Employed Contractor
Self Employed Contractor
Self Employed Electrician
Self Employed Garderner
Self Employed Logger
Self Employed Postal Worker
Self Employed Share Milker
Self Employed Sharemilker
Self-employed Cleaning Company
Self-Employed Contractor
Self-Employed Painter And Decorator
Self-Employed Studio Photographer
Semi Retired
Semi Retired - Volunteers On Marae
Semi Retired Farmer
Senior Central Government Official
 Senior Non-commissioned Defence Force Member

Senior Non-commissioned Defence Force Member
Senior Programme Advsor
Senior Scientist
Senior Test Analyst
Septic Tank Cleaner
Service Administratiion Manager
Service Consultant
Service Desk Operator
○ Service Manager
 Service Station Attendant
Service Station Attendants
Service Support Manager
Service Technician
Sewage Contractor
Sewage ContracterSewing Machinist
Sewing Machinist
Sewing Machinists
Sex Worker
○ Sex Worker or Escort
Sexual Health Clinician
○ Sharemilker
Shearer
Shearers
○ Shed Hand
Char
Shearer Shearers Shed Hand Sheep
○ Sneep Farm Worker
○ Sheep Farmer
○ Sheep Farmer
○ Sheep Handler
Sheetmetal Trades Worker
Sheetmetal Trades Workers
Chalf Filler
Chalf Filler
Shell Fillers
Shelf FillerShelf FillersShepherd
() Ship's Engineer
○ Ship's Master
○ Ship's Officer
Ship's SurveyorShipwright
○ Shipwright
Shoemaker
○ Shop Assistant
Shop Manager
Shop Owner
Shop Owner
Chan Owner Manufacture Of Concrete Broducts
Shop Owner - Manufacture Of Concrete Products
Short Top And Sides
Shot Firer
○ Shuttle Driver
○ Sickness Beneficiary
Sickness Beneficiary (previously Caregiver In A
Resthome)
Sickness Beneficiary (previously Caregivern In A
Resthome)
Sign Erector
Signwriter
Signwriters
Singer
○ Site Manager
○ Site Worker
○ Ski Instructor
 Skilled Animal and Horticultural Workers
Skydive Jump Master
○ Slaughterer
Small Engine Mechanic
Small Offset Printer
Smith City
Snowsport Instructor
Social and Welfare Professionals
Social Professionals
 Social Professionals nec
Social Science Researcher
Social Security Assessor

Social Worker	
Casial Warkers	
Social Workers	
 Software and Applications Programmers 	
 Software and Applications Programmers ned 	2
Software Architect	
Software Developer	
Software Developer	
Software EngineerSoftware Tester	
Coftware Tester	
O Software rester	
Soldier	
Solicitor	
Solicitors	
○ Solid Plasterer	
Solutions Architect	
○ Song Writer	
SonographerSound Technician	
O Sound Technician	
O South rectificati	
Sous Chef	
Special Care Worker	
Special Developer	
 Special Education Teachers 	
 Special Education Teachers nec 	
 Special Needs Occupational Therapist 	
Special Needs OT	
Special Needs Teacher	
 Specialist Managers 	
Specialist Managers nec	
Specialist Physician (General Medicine)	
Specialist Physicians	
 Speech Language Therapist 	
Sports Administrator	
 Sports and Personal Service Workers 	
Sports Centre Manager	
○ Sports Co-ordinator	
 Sports Coaches, Instructors and Officials 	
 Sports Development Officer 	
Consider University	
Sports Umpire	
Chartenersons	
() Sportspersons	
○ Sportspersons	
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Sportspersons necSpray Painter	
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 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager 	
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 ○ Sportspersons nec ○ Spray Painter ○ St Johns Ambulance Tech ○ Stablehand ○ Staff Member ○ Staff Nurse ○ Stage Manager ○ Standards NZ ○ Stationary Plant Operators ○ Stationary Plant Operators nec ○ Statistical Clerk ○ Statistician 	
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 ○ Sportspersons nec ○ Spray Painter ○ St Johns Ambulance Tech ○ Stablehand ○ Staff Member ○ Staff Nurse ○ Stage Manager ○ Standards NZ ○ Stationary Plant Operators ○ Stationary Plant Operators nec ○ Statistical Clerk ○ Statistician 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum 	
 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistician Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum Stay At Home Mum Stay At Home Mum And Florist On Weekend 	
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 Sportspersons nec Spray Painter St Johns Ambulance Tech Stablehand Staff Member Staff Nurse Stage Manager Standards NZ Stationary Plant Operators Stationary Plant Operators nec Statistical Clerk Statistical Clerk Stay At Home Dad Stay At Home Grandmother Stay At Home Mum Stay At Home Mum And Florist On Weekend Steel Cutter Steel Fixer Steel Worker Steel Worker Stock Agent Stock Agent Stock Clerk Stock Truck Driver Stockbroking Dealer Stockman 	
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Ō	Store Manager - Food
	Storeman
	Storeman
Q	Storeperson
Q	Storepersons
Q	Storepersons
	Storepersons
	Stowage Contractor
	Street Vendor
	Street Vendors and Related Salespersons
	Streetsweeper Operator
Q	Structural Engineer
	Structural Steel and Welding Trades Workers
Q	Structural Steel Construction Workers
	Structural Steel Erector
\bigcirc	Student
\bigcirc	student
\bigcirc	Student - Best Pacific Institute Of Education.
	Student - Bible School
\bigcirc	Student - Home Schooled
	Student - Home Schooled
\bigcirc	Student - Language
\bigcirc	Student - Lost To Followup Student - Out Of Auckland
	Student - Overseas (Canada)
	Student - Overseas (Samoa)
	Student - Pharmaceutical
	Student (Biomedical Science)
	Student (Sport
\odot	Student / Part Time Nanny
\sim	Student And Part Time Supermarket Worker
\sim	Student And Youth Worker Student Counsellor
	Student Counsellor Student Home Schooled
	Student Midwife
	Student Nurse Student Nurse
\sim	Student Physiotherapist
\simeq	Student Pilot
	Student Thotassum Student Teacher
	Student Teacher
	student Wel Tech
	Student- Legal Research
	Student- Legal Researcher
	Student/Caregiver
	Student/Foodcafe Worker
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	Student/Foodstacker Student/Foodworker
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Ŏ	Student/Foodworker Student/Grocery Worker
000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef
0000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny
00000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher
000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower
0000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker
00000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker
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000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply, Distribution and Procurement Managers
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply, Distribution and Procurement Managers Support Person
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker (Mental Health)
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker (Mental Health)
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker Support Worker (Mental Health) Surgeon Surgeon (General)
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker Support Worker (Mental Health) Surgeon Surgeon (General) Surgical Registrar
000000000000000000000000000000000000000	Student/Foodworker Student/Grocery Worker Student/Part Time Chef Student/part-time Nanny Student/Restaurant Dishwasher Sugar Cane Grower Sugar Mill Worker Super Market Worker Supermarket Worker Supervisor Supervisor - Operator Supervisor Countdown Supply and Distribution Manager Supply Manager Supply, Distribution and Procurement Managers Support Person Support Services Manager Support Worker Support Worker Support Worker (Mental Health) Surgeon Surgeon (General)

Surveying or Cartographic Technician
○ Surveyor
○ Surveyor's Assistant
 Surveyors and Spatial Scientists
 Sustainable Transport Coordinator
Swimming Pool Attendant
Swimming Coach or Instructor
Swimming Pool Construction
Switchboard Operator
Switchboard Operators
○ Systems Administrator
○ Systems Analyst
Systems AnalystTanker Driver
Tanker Driver
Tanker Driver Tannery Worker
Tattoo Artist
Taxation Accountant
Taxation Inspector
○ Taxi Driver
○ Taxidermist
TeacherTeacher
Teacher
Teacher - Reliever
○ Teacher - Reliver
Teacher (currently Not Working)
Teacher Aide
Teacher Of Adults
Teacher of English to Speakers of Other Languages
Teacher Of Music
 Teacher of the Hearing Impaired
 Teacher of the Sight Impaired
○ Teacher- Correspondence School
Teacher/Instructor
Teachers of English to Speakers of Other Languages
○ Teachers' Aide
Team Leader
Team Leader Of Club Active
Team Manager
Tech Solutions Specialist
Technical Analyst
Technical Cable Jointer
Technical Coodinator
Technical Director
Technical Officer
Technical Sales Representatives
Technical Sales Representatives nec
Technical Writer
○ Technician
 Technicians and Trades Workers
Technicians and Trades Workers nec
Telecommunications Cable Jointer
Telecommunications Engineer
 Telecommunications Engineering Professionals
Telecommunications Field Engineer
Telecommunications Line Mechanic
Telecommunications Network Engineer
Telecommunications Network Planner
Telecommunications Technical Officer or
Technologist
Telecommunications Technical Specialists
Telecommunications Technician
Telecommunications Trades Workers
○ Telemarketer
○ Telemarketers
Telephone Betting Clerk
○ Telephonist - Call Centre
 Television Equipment Operator
Television Journalist
O = 1 11 B
Television Presenter
○ Teller

Territory Manager
Tertiary Education Teacher
 Tertiary student
Tertiary Student
O Test Engineer
Test EngineerTextile and Footwear Production Machine Operators
Textile and Footwear Production Machine Operators
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Textile Dyeing and Finishing Machine Operator
 Textile, Clothing and Footwear Mechanic
 Textile, Clothing and Footwear Trades Workers
Theatre Facilator
Theatre Facilitator
Theatre Nurse
Therenist
○ Therapist
Therapy AideTherapy AssisstantThermoformer Operator
 Therapy Assisstant
Thermoformer Operator
Thoracic Medicine Specialist
Ticket Collector or Usher
Ticket Salespersons
Ticket Seller
○ Tiler
 Timber and Wood Process Workers
○ Toddler
○ Toddler
○ Toolmaker
Toolmakers and Engineering Patternmakers
Tour Guide
○ Tourism and Travel Advisers
○ Tourist
○ Tourist Guide
Tourist Information Officer
Tow Truck Driver
Town Planner
Tractor Mechanic
Trade Assistant
○ Tradesman
Traditional Chinese Medicine Practitioner
Traditional M
Train and Tram Drivers
Train Controller
Train Driver
Train Examiner
Trainee Mechanic
 Training and Development Professional
 Training and Development Professionals
Training Coordinator
Trainor (ACC)
○ Tram Driver
 Transfer Station Operator
○ Translator
 Transport and Despatch Clerks
Transport Company Manager
Transport Conductor
Transport Coordinator
Transport Engineer
Transport Manager
 Transport Operations Inspector
Transport Services ManagerTranz Rail
○ Tranz Rail
 Travel Agency Manager
Travel Agency ManagerTravel Attendant
Travel Attendants
Travel Attendants nec
Travel Consultant
○ Travel Coordinator
○ Traveller
○ Tree Feller
○ Tree Feller○ Trekking Guide○ Tribunal Member

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Trolley Collector	
Truancy Officer	
Truck Driver	
Truck Driver	
Truck Driver	
Truck DriverTruck Driver (General)Truck Driver (Stock)Truck Driver's Offsider	
Truck Driver (General)	
O Truck Driver (General)	
() Truck Driver (Stock)	
 Truck Driver's Offsider 	
O Truck Driver 5 Offsider	
Truck Drivers	
Truck Mechanic	
 Trucking Operator 	
Trust Officer	
Turf Grower	
O Tull Glower	
Tutor	
Tutor Lecturer	
O TV Draduction	
Tutor LecturerTV ProductionTypist	
Tyre Fitter	
O Tyre riccer	
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Visual Arts and Crafts Professional
 Visual Arts and Crafts Professionals nec
Visual Merchandiser
○ Visual Merchandisers
○ Vocational Education Teachers (Aus) / Polytechnic
Teachers (NZ)
○ Voluntary Work
○ Volunteer
Volunteer At A Music Pre-School
○ Volunteer Driver (occasionally)
○ Volunteer Work In 3rd World Countries
Volunteer Work In 3rd Worls Countries
○ Waiter
Waiters
○ Waitress
Wall and Floor Tiler
○ Wall and Floor Tilers
○ Ward Clerk
Warehouse Administrator
○ Warehouse Manager
Warehouse Night Shift Worker.
Warehouse Online Shopping Clerk
○ Warehouse Supervisor
Warehouse Worker
○ Waste Water Management
○ Waste Water Operator
Waste Water or Water Plant Operator
Watch and Clock Maker and Repairer
Water Blaster
○ Water Inspector
○ Water Pump Worker
○ Water Tank Cleaner
Water Treatment Engineer
○ Waterside Worker
Weaving Machine Operator
○ Web Administrator
○ Web Designer
○ Web Developer
○ Webdesigner
○ Weed Sprayer
Weigh Bridge Tech
Weighbridge Operator
Weight Loss Consultant
○ Weightlifter
Welder
Welfare Centre Manager
○ Welfare Support Worker
○ Welfare Worker
 Welfare, Recreation and Community Arts Workers
○ Welllington Hospital
○ Wharf Worker
○ Whitewater Rafting Guide
○ Wholesaler
○ Window Cleaner
Wine Maker
○ Wine sales Worker
○ Wine Stewart
○ Winery Cellar Hand
○ Winery Worker
○ Wintec Student
WINZ Facilitator
women's Centre Co-oridnator
Wood and Wood Products Factory Worker
○ Wood Machinist
 Wood Machinists and Other Wood Trades Workers
○ Wood Machinists and Other Wood Trades Workers nec
○ Wood Processing Machine Operator
Wood Tracessing Machine Operator Wood Trades Workers
○ Wood Treater
○ Wood Turner
○ Woofer

7b. Do you work directly with either animals, food, the outdoor environment or in healthcare or an early childhood centre where you are in physical contact with patients or young children?

May or may not be obvious from the job title e.g. carer, or factory worker.

○ Wool Classer
○ Wool Handler
Wool Technician
Word Processing Operator
○ Work Visa Holder
○ Workforce Planner
○ Working In Film Industry
○ Working in Film industry ○ Workplace Relations Adviser
Works At Absoilers
Works At Abseilers
Works At Swimming Pool
Works From Home
○ Works From Home - Motor Industry
○ Works In A Mashroom Firm
○ Works In A Mushroom Firm
○ Works In Sewers
○ Works Infrastructure
Works With Natural Medicines
○ Writer
Writer (Library)
Yard Foreman
○ Yardsman
Yarn Carding and Spinning Machine Operator
Youth Warker
Youth Worker
Youth Worker
○ Zoo Ranger
○ Zookeeper
○ Zoologist
☐ Yes, animal
☐ Yes, food
Yes, outdoor environment
Yes, healthcare/rest home
Yes, early childhood centre work
□ No
(
Interviewer
note
note
You
may
select
more
than
one.)

O Wool Buyer

8. For child/student participants. In the 7 days before your child/you became ill, did they attend:		 ○ Preschool ○ School ○ Other daycare or educational ○ Don't Know ○ Refuse to answer 	institution
Please specify - other daycare or educational institution			_
INFORMATION ON THE ILLNESS (CASES OF	NLY)		
I would now like to ask you some questions about your/your child's recent illness. It may be useful to have a calendar, diary or smartphone with a calendar function in to remind you of the dates involved.			
9. During your/your child's illness	, which of the follo	owing were experienced:	
	Yes	No	Don't know
Vomiting	\circ	0	0
Diarrhoea	\bigcirc	0	\circ
Fever	\circ	\circ	\circ
Headache	\bigcirc	0	\circ
Muscle/body aches	0	0	\circ

10. Can you remember when these symptoms started?	
Note: This is the reference date that will be used for subsequent questions. Probe them using date or day of the week or number of days prior to interview until you have their best estimate. If they cannot give a date or it is more than x days prior to interview, then exclude.	
Is this an approximate date?	○ Yes
10v. How long did those symptoms last?	○ No
10x. How long did these symptoms last?	(Interviewer note: Days in number)

10a. Were you/your child admitted to hospital due to this illness?	YesNoDon't know
Admission to hospital means more than 3 hours of assessment and treatment whether in the emergency department or a ward - this can include observation done as part of the assessment but excludes waiting time before assessment and triage time	
Name of hospital	
Date admitted	
Date discharged	
10b. Blank field for other notes	
Eg Episurv information if case died	
MEDICATION	
11a. Did you/your child take any antibiotics as a result of this illness?	YesNoDon't know

If yes, can you tell us the name of the antibiotic?	 □ Erythromycin □ E-Mycin □ ERA (filmtabs or injection) □ Ciprofloxacin □ Cipflox □ Ciproxin □ Topistin □ Cifran □ Norfloxacin □ Other (Interviewer note : Ask person to get the tablet/medicine bottle if possible)
Please specify the name of antibiotic	
11b. In the 4 weeks before you became ill, did you take any form of treatment	Yes No Don't know

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for gastric acid, stomach ulcers or acid reflux?

If yes, can you tell us the name of the	e treatment?	mylanta quick-eze alu-tab eno gaviscon losec omeprazole nexium lanzole solox lansoprazole panzop pantoprazole zantac ranitidine peptisoothe syrup cimetidine Other	
Please specify the name of treatment	1		
11c. In the 4 weeks before you	ı became ill, did you	take:	
Prednisone or any other steroid not used on your skin	Yes	No	Don't know
Cyclosporine	\circ	\circ	0
Methotrexate	\bigcirc	\circ	\bigcirc
Chemotherapy	\circ	\circ	\circ
Radiation treatment	0	0	0
12. Have you/your child been told by your doctor that you suffer from a long-term condition or chronic illness in which diarrhoea or vomiting is a major symptom?		YesNoDon't know	
If yes, specify		☐ Crohn's diseases☐ Irritable bowel syndrom☐ Ulcerative colitis☐ Stomach or oesophagus☐ Other	
Specify illness			

Travel in the last 7 days before getting sick	
13a. In the 7 days before getting sick, did you / [insert child's name] travel within New Zealand?	YesNoDon't knowReused to answer
Travel means away from your usual home for one or more nights.	
13b. Please specify where in New Zealand you/ [insert child's na	me] had travelled to?
Location 1	
Location 2	
Location 3	
13c. Were you / [insert child's name] overseas in the 7 days before getting sick?	YesNoDon't knowRefused to answer
13d. What date did you / [insert child's name] arrive back in New Zealand?	

Complete the questions below based on order of countries visited. Dates in these questions should be the same or before the date of arrival in New Zealand.

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Last country	 Andorra United Arab Emirates Afghanistan Antigua and Barbuda Anguilla Albania Armenia Angola Antarctica Argentina American Samoa Australia Aruba
Date entered into last country	
Date departed from last country	
Second last country	 ○ Andorra ○ United Arab Emirates ○ Afghanistan ○ Antigua and Barbuda ○ Anguilla ○ Albania ○ Armenia ○ Angola ○ Antarctica ○ Argentina ○ American Samoa ○ Austria ○ Australia ○ Aruba
Date entered into second last country	
Date departed from second last country	
Third last country	 Andorra United Arab Emirates Afghanistan Antigua and Barbuda Anguilla Albania Armenia Angola Antarctica Argentina American Samoa Austria Aruba
Date entered into third last country	
Date departed from third last country	



CONTACT WITH ILL PEOPLE AND ACTIVITIES			
In the last 7 days before getting sick 14. Did you/your child have contact with anyone with symptoms of gastroenteritis (diarrhoea, vomiting, stomach pain etc.)?	::	 Yes No Don't know 	
14a. If yes was this:			
Close personal contact e.g. partner, child, other person/flatmate/lodger at home address	Yes	No	Don't know
Other close personal contact e.g. looking after friend, relative outside home address, or workplace/school	0	0	0
Indirect contact e.g. touching something a sick person may have touched such as a door handle, crockery, food, object etc	0		0

RECENT FOOD CONSUMPTION

More than one option can be indicated if relevant (.eg. if you ate the food at home on one occasion and outside the home on another occasion).

Meat Consumption



15. In the 7 days before illness, did you/your child eat any poultry meat, red meat, offal or meat products such as deli meats, sausages or pate?	Yes No Don't know
Q 15a. What type of meat did you eat?	□ Poultry □ Beef □ Lamb/mutton □ Pork □ Other meats e.g Venison, products including more than one meat type (Interviewer note : If seafood answered acknowledge, however there is no tick box)
Please specify other meats (a)	
(b)	



(c)

	Interviewer note : Use up to three boxes as needed, one meat type per line)
Poultry	
Q 15b. You mentioned that you/your child ate some poultry meat. Was this prepared, cooked or eaten at home?	Yes No Interviewer note Product list will show for YES)
Did you eat poultry that was not chicken?	YesNoDon't know

If Yes, Which type of poultry products did you/your child eat at home?



			Page 153 of 211
	Yes	No	Don't know
Chicken burgers/patties/meatballs Chicken pieces (Legs, Wings	0	0	0
chicken kebabs	0	0	0
	0	0	0
Chicken fillets (including strips)	0	0	0
Chicken mince	0	0	0
Serving from a whole chicken	0	0	0
Chicken offal (liver, kidney etc.)	0	0	0
Chicken nuggets	0	0	0
Chicken sausages	0	0	0
Chicken Deli Meat (precooked)	0	0	0
Chicken Pate	0	0	0
Other Chicken Product	0	O	0
Duck (any product type)	\circ	\circ	\circ
Goose (any product type)	0	\circ	\bigcirc
Turkey (any product type)	\circ	\circ	\circ
Other non-chicken poultry	\bigcirc	\circ	0
Specify other chicken product type			
Specify other "non chicken" poultr	У		
Next there are some questions ab	out the poultry products yo	ou ate.	
How were the chicken burgers/patties/meatballs bought?			ding takeaways
If other, how were the chicken burger/pattie/meatballs bought?			
Did any of the meat inside the chicken burger/pattiemeatballs appear pink when you/your child ate it?		YesNoUnknown	

○ BBQ○ Microwave○ Grill(Interviewernote
: Only high risk cooking methods are listed - not meant to be exhaustive)
 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
○ Yes ○ No ○ Unknown



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Were the chicken pieces cooked using a	○ BBQ○ Microwave○ Grill(Interviewernote
	: Only high risk cooking methods are listed - not meant to be exhaustive)
How were the chicken kebabs bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how were the chicken kebabs bought?	
Did the chicken kebabs appear pink on the inside when you/your child ate them?	YesNoUnknown

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Was the chicken kebabs cooked using a	○ BBQ○ Microwave○ Grill(Interviewernote
	: Only high risk cooking methods are listed - not meant to be exhaustive)
How were the chicken fillets bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how were the chicken fillets bought?	
Did the chicken fillets appear pink on the inside when you/your child ate them?	YesNoUnknown



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Was the chicken fillets cooked using a	○ BBQ○ Microwave○ Grill(Interviewernote
	: Only high risk cooking methods are listed
	not meant to be exhaustive)
How was the chicken mince bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the chicken mince bought?	
Did the chicken mince appear pink when you/your child ate it?	YesNoUnknown
Was the chicken mince cooked using a	 ○ BBQ ○ Microwave ○ Grill (Interviewer note :nly high risk cooking methods are listed - not meant to be exhaustive)
How was the whole chicken bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the whole chicken bought?	

Did your portion of the whole chicken appear pink on the inside when you/your child ate it?	YesNoUnknown
Was the whole chicken cooked using a	 ○ BBQ ○ Microwave ○ Grill (Interviewer note : Only high risk cooking methods are listed - not meant to be exhaustive)
How was the chicken offal bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the chicken offal bought?	
Did the chicken offal appear pink on the inside when you/your child ate it?	YesNoUnknown



Was the chicken offal cooked using a	○ BBQ○ Microwave○ Grill(Interviewernote
	: Only high risk cooking methods are listed
	not meant to be exhaustive)
How was the deli meat bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the deli meat bought?	
How was the pate bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the pate bought?	
Did the pate appear pink on the inside when you/your child ate it?	YesNoUnknown
How were the nuggets bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how were the nuggets bought?	



Did the nuggets appear pink on the inside when you/your child ate them?	YesNoUnknown
Were the nuggets cooked using a	BBQ Microwave Grill (Interviewer note : Only high risk cooking methods are listed - not meant to be exhaustive)
How were the sausages bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how were the sausages bought?	
Did the sausage appear pink on the inside when you/your child ate it?	YesNoUnknown
Were the sausages cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)



How was the [q15c_chick_other_specify] bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the [q15c_chick_other_specify] bought?	
Did the [q15c_chick_other_specify] appear pink on the inside when you/your child ate it?	YesNoUnknown
Was the [q15c_chick_other_specify] cooked using a	 BBQ Microwave Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the turkey bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the turkey bought?	
Did the turkey appear pink on the inside when you ate it?	YesNoUnknown
Was the turkey cooked using a	 BBQ Microwave Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the duck bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the duck bought?	



Did the duck appear pink on the inside when you ate it?	YesNoUnknown
Was the duck cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the goose bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the goose bought?	
Did the goose appear pink on the inside when you ate it?	YesNoUnknown
Was the goose cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the [q15c_non_chick_specify] bought?	 Bought fresh and used before the 'used by date' Previously bought fresh, then frozen, then thawed for this meal Bought frozen, then thawed for this meal Bought cooked, including takeaways Bought some other way,
If other, how was the [q15c_non_chick_specify] bought?	



Did the [q15c_non_chick_specify] appear pink on the inside when you/your child ate it?	YesNoUnknown
Was the [q15c_non_chick_specify] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15d. Did you/your child eat poultry meat outside of the home?	YesNo
If yes, was it from?	☐ fast food/take away place ☐ cafe/lunch bar/restaurant ☐ catered event ☐ social occasion involving barbeques food) ☐ another social occasion (eg dinner at a friends house) ☐ from somewhere else, please specify
Please specify 'other'	
Beef	
Q 15e. You mentioned that you/your child ate some beef. Was this prepared, cooked or eaten at home?	Yes No (Interviewer note : Product list will show for YES)

If Yes, Which type of beef products did you/your child eat at home?



luciitiai			
	Yes	No	Page 164 of 211 Don't know
Beef burger/pattie/meatballs	0	0	0
Beef chop	0	0	0
Beef steak	0	0	0
Beef pieces	\circ	0	\circ
Beef mince	\circ	0	\circ
Beef roast	\circ	\circ	\circ
Beef offal	\circ	\circ	\circ
Beef deli meat (precooked)	\circ	\circ	\circ
Beef sausage	\circ	\bigcirc	\circ
Beef pate	\bigcirc	\bigcirc	\bigcirc
Other beef product	\circ	0	0
Specify other type of beef product			
How were the beef burgers/patties/m	eatballs bought?	○ Fresh○ Frozen○ Ready Cooked	
Did the		○ Yes ○ No	
beef burger/pattie/meatball meat appear pink on the inside when you/ your child ate it?		○ Don't know	
The beef burger/pattie/meatballs were cooked using		○ BBQ○ Microwave○ Grill(Note for interviewer - or methods are listed - not methods)	only high risk cooking t meant to be exhaustive)
a The beef chops were bought		○ Fresh○ Frozen	
		Ready Cooked	

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Did the	YesNoDon't know
beef chops meat appear pink on the inside when you/your child ate it?	DOLL KLIOW
Was the beef chops cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the beef steak bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
beef steak meat appear pink on the inside when you/your child ate it?	
Was the beef steak cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the beef pieces/strips bought?	○ Fresh○ Frozen○ Ready Cooked

Did the	YesNoDon't know
beef pieces/strips meat appear pink on the inside when you/your child ate them?	O DOIT C KNOW
Were the beef pieces cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the beef mince bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNo
beef mince meat appear pink	O Don't know
when you/your child ate it?	
Was the beef mince cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the beef roast bought?	○ Fresh○ Frozen○ Ready Cooked



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Did the	YesNoDon't know
roast beef meat appear pink on the inside when you/your child ate it?	O BOTT KNOW
Was the beef roast cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the beef sausages bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
beef sausages appear pink on the inside when you/your child ate them?	
Was the beef sausage cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the beef deli meat bought?	○ Fresh○ Frozen○ Ready Cooked
How was the beef pate bought?	○ Fresh○ Frozen○ Ready Cooked

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Did the	○ Yes○ No○ Don't know
beef pate appear pink on the inside when you/your child ate it?	O BOIL KHOW
How were the [q15f_beef_other_specify] bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
beef [q15f_beef_other_specify] appear pink on the inside when you/your child ate it?	O BOIL KNOW
Was the [q15e_beef_other_specify] cooked using a	 BBQ Microwave Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you/your child eat beef outside of the home?	YesNoDon't know
Did you/your child eat beef at:	 ☐ Fast food/take away place ☐ Cafe ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of beef	
Lamb/Mutton	

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Q

You mentioned that you/your child ate some lamb/mutton. Was this prepared, cooked or eaten at home?		 ○ No (Interviewer note : Product list will show for YES) 	
If Yes, Which type of lamb/mutton pro	oducts did you/your	child eat at home?	
Lamb/Mutton	Yes	No	Dont Know
burger/pattie/meatballs			
Lamb/Mutton chops	\circ	0	\circ
Lamb/Mutton steak	\bigcirc	0	\bigcirc
Lamb/Mutton pieces/strips	\circ	\circ	\circ
Lamb/Mutton mince	\bigcirc	0	\bigcirc
Lamb/Mutton roast	\bigcirc	0	\bigcirc
Lamb/Mutton offal (liver, kidneys etc)	0	0	0
Lamb/Mutton sausage	\circ	\bigcirc	\circ
Lamb/Mutton deli meat (precooked)	0	0	0
Lamb/Mutton pate	\circ	\bigcirc	\circ
Other Lamb/Mutton product	\circ	0	\circ
Specify other type of Lamb/Mutton pr	roduct		
How were the lamb/mutton burgers/patties/meatballs bought?		○ Fresh○ Frozen○ Ready Cooked	

○ Yes



Did the	YesNoDon't know
lamb/mutton burger/pattie/meatball meat appear pink on the inside when you/your child ate it?	O DOIT C KNOW
Was the lamb/mutton burger/pattie/meatballs	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
cooked using a	
How were the lamb/mutton chops bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	○ Yes ○ No
lamb/mutton chop meat appear pink on the inside when you/your child ate it?	○ Don't know
Were the lamb/mutton chops cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the lamb/mutton steak bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
lamb/mutton steak meat appear pink on the inside when you/your child ate it?	



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Was the lamb/mutton steak cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the lamb/mutton pieces/strips bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
lamb/mutton pieces/strips appear pink on the inside when you/your child ate it?	
Were the lamb/mutton pieces/strips	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
cooked using a	
How was the lamb/mutton mince bought?	○ Fresh○ Frozen○ Ready Cooked
Did the lamb/mutton mince meat appear pink when you/your child ate it?	YesNoDon't know
Was the lamb/mutton mince cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the lamb/mutton roast bought?	○ Fresh○ Frozen○ Ready Cooked

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Did the roast lamb/mutton	YesNoDon't know
meat appear pink on the inside when you/your child ate it?	
Was the lamb/mutton roast cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the lamb/mutton sausages bought?	○ Fresh○ Frozen○ Ready Cooked
Did the lamb/mutton sausage meat appear pink on the inside when you/your child ate it?	YesNoDon't know
Were the lamb/mutton sausages cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the lamb/mutton deli meat bought?	○ Fresh○ Frozen○ Ready Cooked
How was the lamb/mutton pate bought?	○ Fresh○ Frozen○ Ready Cooked



Did the	YesNoDon't know
lamb/mutton pate appear pink on the inside when you/your child ate it?	O BOIL KHOW
How was the lamb/mutton [q15f_lamb_other_specify] bought?	○ Fresh○ Frozen○ Ready Cooked
Did the lamb/mutton [q15f_lamb_other_specify] appear pink on the inside when you/your child ate it?	YesNoDon't know
Were the lamb/mutton [q15f_lamb_other_specify] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you/your child eat lamb/mutton outside of the home?	YesNoDon't know
Did you/your child eat lamb/mutton at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify the other source of lamb/mutton	
Pork	



Q 15e.			
You		(
mentioned that		Interviewer	
you/your		note	
child		<u>.</u>	
ate some		Product list	
pork.		will	
Was		show	
this prepared,		for YES)	
cooked or		ŕ	
eaten at			
home?			
If Yes, Which type of pork products	did you/your child eat a	at home?	
	Yes	No	Don't Know
Pork burger/pattie/meatballs	0	0	0
Pork chops	0	0	0
Pork steak	0	0	0
Pork pieces/strips	0	0	\circ
Pork mince	\circ	\bigcirc	\circ
Pork roast	\circ	\circ	\circ
Pork offal	\circ	\circ	\circ
Pork sausage	\circ	\bigcirc	\circ
Pork deli meat (precooked)	\circ	\bigcirc	\circ
Pork pate	\bigcirc	\bigcirc	\circ
Other pork product	0	0	\circ
Specify other type of Pork product			
How were the pork burgers/patties/r	noathalls hought?		
now were the pork burgers/pattles/r	neathans bought:	Frozen Ready Cooked	
Did		○ Yes	
the		No No	
pork burger/pattie/meatball meat appear pink		○ Don't know	
on			
the inside when you/your child			
ate it?			

Were the pork burgers/patties/meatballs cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the pork chops bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
pork chop meat appear pink on the inside when you/your child ate it?	
Were the pork chops cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the pork steak bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
pork steak meat appear pink on the inside when you/your child ate it?	
Was the pork steak cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How were the pork pieces/strips bought?	○ Fresh○ Frozen○ Ready Cooked



Did the	YesNoDon't know
pork pieces/strips meat appear pink on the inside when you/your child ate it?	O BOIL KHOW
Were the pork pieces/strips cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the pork mince bought?	○ Fresh○ Frozen○ Ready Cooked
Did the pork mince meat appear pink when you/your child ate it?	YesNoDon't know
Was the pork mince cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the pork roast bought?	○ Fresh○ Frozen○ Ready Cooked
Did the roast	YesNoDon't know
pork	
meat appear pink on the inside when you/your child ate it?	
Was the pork roast cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)



How was the pork sausage bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
pork sausage meat appear pink on the inside when you/your child ate it?	
Was the pork sausage cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
How was the pork deli meat bought?	○ Fresh○ Frozen○ Ready Cooked
How was the pork pate bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
pork pate appear pink on the inside when you/your child ate it?	
How was the pork [q15f_pork_other_specify] bought?	○ Fresh○ Frozen○ Ready Cooked



Did the	YesNoDon't know
pork [q15f_pork_other_specify] appear pink on the inside when you/your child ate it?	O BOIL KHOW
Was the pork [q15f_pork_other_specify] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you/your child eat	YesNoDon't know
pork outside of the home?	
Did you/your child eat pork at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of pork	
Non-poultry offal	
How was the non-poultry offal bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	YesNoDon't know
offal (non-poultry) meat appear pink on the inside when you/your child ate it?	O DOTT CRITOTI



Was the offal (non-poultry) cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you eat non-poultry offal outside of the home?	YesNoDon't know
Did you eat offal (non-poultry) at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of offal (non-poultry)	
Other non-poultry meat	
Did you eat [q15a_meat_specify_a] at home?	YesNoUnknown
How was the [q15a_meat_specify_a] bought?	○ Fresh○ Frozen○ Ready Cooked
Did the	○ Yes ○ No
[q15a_meat_specify_a] appear pink on the inside when you/your child ate it?	○ Don't know
Was the [q15a_meat_specify_a] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you eat [q15a_meat_specify_a] outside of the home?	YesNoDon't know



Did you eat [q15a_meat_specify_a] at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of [q15a_meat_specify_a]	
Did you eat [q15a_meat_specify_b] at home?	YesNoUnknown
How was the [q15a_meat_specify_b] bought?	○ Fresh○ Frozen○ Ready Cooked
Did the [q15a_meat_specify_b] appear pink on the inside when you/your child ate it?	YesNoDon't know
Was the [q15a_meat_specify_b] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you eat [q15a_meat_specify_b] outside of the home?	YesNoDon't know
Did you eat [q15a_meat_specify_b] at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of [q15a_meat_specify_b]	
Did you eat [q15a_meat_specify_c] at home?	YesNoUnknown
How was the [q15a_meat_specify_c] bought?	○ Fresh○ Frozen○ Ready Cooked



Did the	○ Yes○ No○ Don't know
[q15a_meat_specify_c] appear pink on the inside when you/your child ate it?	O DON'T KNOW
Was the [q15a_meat_specify_c] cooked using a	 ○ BBQ ○ Microwave ○ Grill (Note for interviewer - only high risk cooking methods are listed - not meant to be exhaustive)
15g. Did you eat [q15a_meat_specify_c] outside of the home?	YesNoDon't know
Did you eat [q15a_meat_specify_c] at:	 ☐ Fast food/take away place ☐ Cafe/restaurant ☐ Catering company ☐ Social occasion involving barbecued food ☐ Other social occasion (e.g. dinner at friend's house) ☐ Other
Please specify other source of [q15a_meat_specify_c]	
Meat Handling	
15h. In the 7 days before getting sick, was raw poultry meat or other raw meat (including raw pet food) handled by anyone in the household?	☐ Yes, I/my child handled raw poultry meat ☐ Yes, I/my child handled other raw meat(s) ☐ Yes, I/my child handled raw pet food ☐ Yes, someone else in the home prepared the raw poultry meat ☐ Yes, someone else in the home prepared the raw meat ☐ Yes, someone else in the home handled raw pet food (Interviewer note : More than one option is possible.)



15i In the 7	YesNoDon't know
days before getting sick did you/your child handle	
any items that may have been	
in contact with raw poultry meat	
or other meat (including raw pet food) before it	
was cooked such as knives, chopping boards, plates or	
dish cloths	
If yes, please specify	☐ knives ☐ chopping boards ☐ dish cloths ☐ plate / dish
Other foods	



16. In the 7 days before you became ill did you eat uncooked foods such as salad, vegetables, or fruit?	 ☐ Yes - as part of a chicken meal/snack ☐ Yes - as part of a meat meal/snack ☐ Yes - as part of a meal/snack that did not contain meat
	(Interviewer note :
	Can choose more
	than one response)
If prepared as a part of chicken meal/snack, was this meal prepared at	☐ home ☐ fast food/take away place ☐ cafe ☐ catering company ☐ social occasion involving barbecued food ☐ other social occasion (e.g. dinner at friend's house) ☐ other (Interviewer note : Can choose more than one response)
Please specify 'other'	
If prepared as a part of meat meal/snack, was this meal prepared at	home fast food/take away place cafe catering company social occasion involving barbecued food other social occasion (e.g. dinner at friend's house) other (Interviewer note : Can choose more than one response)
Please specify 'other'	

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If prepared as a part of meal/snack that did not contain meat	 │ home │ fast food/take away place │ cafe/restaurant │ catering company │ social occasion involving barbecued food │ other social occasion (e.g. dinner at friend's house) │ other (Interviewer note : Can choose
	more than one response)
Please specify 'other'	
17. In the 7 days before you/your child became ill can you pleas home compared with the number prepared outside the home, in out (eg caf	
Number of dinners prepared at home	
	(Interviewer note: Specify number out of 7)
Number of lunches prepared at home	(Interviewer note: Specify number out of 7)
Number of breakfasts prepared at home	(Interviewer note: Specify number out of 7)
18.	Yes
In the	○ No ○ Don't know
7	
days before	
illness,	
have	
you/your child	
eaten/drunk	
raw (unpasteurised) milk	
or milk	
products that have	
not	
been cooked or	
heat	
treated to 70oC	
before	
consumption?	
Type of product	☐ Milk ☐ Yoghurt
	☐ Cheese ☐ Other



Specify 'other' product				
Milk brand				
Where the milk brand obtained				
Yoghurt brand				
Where the yoghurt brand obtained				
Cheese brand				
Where the cheese brand obtained				
[q18_product_specify] brand				
Where the [q18_product_specify] brance	d obtained			
KITCHEN HYGIENE				
19. Does your kitchen have sep	arate chopping	boards for		
	Yes	No	Don't know	
19a. Raw poultry	<u> </u>	\bigcirc	O	
19b. Other raw meats	\circ	0	0	
19c. All raw meats and poultry	\bigcirc	\bigcirc	\circ	
19c. Other foods such as vegetables, fruits, cooked foods	0	0	0	
20a. Do you wash the board between use for raw meat and other foods		YesNoDon't know		
20b. How do you wash your boards?		Rinse with clean watWash with detergenPut through dishwas	 Wipe with damp cloth Rinse with clean water Wash with detergent and hot water Put through dishwasher cycle Another way, please describe 	
Describe how you wash your boards				
21. Which of the following foods a running tap)?	s would you us	ually rinse in the sink bef	ore cooking (eg under	
Raw chicken	Yes	No	Don't ever cook it	

Raw meat	0	0	0
CONTACT WITH ANIMALS			

The following questions are about the period one week (7 days) before the onset of illness.

22. Have
you/your child had
physical
contact with
your own or
other people's
animals.

Notes for interviewer: This can include contact with poo or manure e.g. changing

holding, patting, feeding, cleaning up afterwards, touching things that the animals have

litter boxes,

used.

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22a. What animals have you had contact with?	☐ Pet dog (including working dogs), pupples, cats, kittens or birds ☐ Chickens or other poultry ☐ Pigs/swine ☐ Cattle (cows, etc) ☐ Sheep ☐ other (Interviewer note: Select all applicable, pet rabbits, rats, mice, lizards, fish all count as other)
Specify other animal(s)	
Were Pets at	☐ At home ☐ Outside home
Please specify where outside home contact with pets occurred?	
Were the pets sick?	YesNo
Specify the type of illness	(eg, diarrhoea)
Was this contact with pets occupational?	Yes No
How long have you been working with or in physical contact with Pets?	○ Less than 1 month○ 2-3 months○ >3 - 12 months○ Over 1 year
Were chickens or other poultry at	☐ At home ☐ Outside home

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Please specify where outside home contact with chickens or other poultry occurred?	
Were the chickens or other poultry sick?	○ Yes ○ No
Specify the type of illness	(Interviewer note : eg, diarrhoea)
Was this contact with chickens or other poultry occupational?	
How long have you been working with or in physical contact with chickens or other poultry?	Less than 1 month2-3 months>3 - 12 monthsOver 1 year
Were pigs/swine at	☐ At home ☐ Outside home
Please specify where outside home contact with pigs/swine occurred?	
Were the pigs/swine sick?	○ Yes ○ No
Specify the type of illness	(Interviewer note : eg, diarrhoea)
Was this contact with pigs/swine occupational?	
How long have you been working with or in physical contact with pigs/swine?	Less than 1 month2-3 months>3 - 12 monthsOver 1 year
Were cattle (cows, etc) at	☐ At home ☐ Outside home
Please specify where outside home contact with cattle occurred	
Were the cattle sick?	
Specify the type of illness	(Interviewer note : eg, diarrhoea)



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Was this contact with cattle occupational?	○ Yes ○ No
How long have you been working with or in physical contact with cattle?	○ Less than 1 month○ 2-3 months○ >3 - 12 months○ Over 1 year
Were sheep at	☐ At home ☐ Outside home
Please specify where outside home contact with sheep occurred?	
Were the sheep sick?	○ Yes○ No
Specify the type of illness	(Interviewer note : eg, diarrhoea)
Was this contact with sheep occupational?	YesNo
How long have you been working with or in physical contact with sheep?	Less than 1 month2-3 months>3 - 12 monthsOver 1 year
Were [q22a_specify_animal] at	☐ At home ☐ Outside home
Please specify where outside homecontact with [q22a_specify_animal] occured	
Were the [q22a_specify_animal] sick?	YesNo
Specify the type of illness	(Interviewer note : eg, diarrhoea)



Was this contact with [q22a_specify_animal] occupational?	○ Yes ○ No
How long have you been working with or in physical contact with [q22a_specify_animal]?	 ○ Less than 1 month ○ 2-3 months ○ >3 - 12 months ○ Over 1 year

DRINKING WATER CONSUMPTION

Questions refer to the period one week (7 days) before the onset of illness.

23a. Which of the following are sources of water supply to your/ [insert child's name] home/ house?	☐ Town supply ☐ Private bore / spring water ☐ Tanker truck water ☐ Roof / rain water ☐ Creek / stream water ☐ Other main source of drinking ☐ Don't know (Interviewer note : Read list and select all that
	apply)



Select a water supply code for the town supply to the cases home

*** AUCKLAND *** ○ A1W001AW : A1 Water ○ ART003AR : Artesian and Solway Water ○ AUC003AA : **Auckland Airport** ○ AUC003AU : Auckland ○ AUC003AZ : Anzac ○ AUC003BU : Buckland ○ AUC003CB: Central Business Dist.Auckland ○ AUC003CL : Clarks/Waiau Beach East Tamaki/Botany ○ AUC003GL : Glenbrook Beach ○ AUC003GN : Glen Eden/New Lynn ○ AUC003HE : Henderson High Head ○ AUC003HI : Hillsborough ○ AUC003HT : Hilltop ○ AUC003HW : HBC/Waiwera ○ AUC003KI : Kitchener ○ AUC003LA : Laingholm O AUC003MA: Maungawhau ○ AUC003MG : Mangere ○ AUC003MO : Montana Mt Hobson ○ AUC003MW: Manurewa ○ AUC003ON : Onehunga ○ AUC003OP : Otara/Papatoetoe/Manukau Cent. ○ AUC0030R : Oratia Otahuhu Patumahoe ○ AUC003SO : North Shore Sth. ○ AUC003SW : Swanson ○ AUC003TH : Te Henga North Shore West ○ AUC003WH : Whenuapai ○ AWH003AW : Awhitu Water Farm ○ BOM002BO : **Bombay Motorway Services** ○ BOM003BO : Bombay **Broadway Park Newmarket** BRO015BP: BUR004BU: **Burnside Road** GLE021GL: Glennoel Farms Haranui Whanau ○ HAR005HA : \bigcirc HEL005HP : Helensville/Parakai \bigcirc HUA002HU : Huapai Depot \bigcirc HUI006HV : Huia Village ○ KAU010WW : Kaukapakapa Water Wagon 1 ○ KEN005KP : Kensington Park ○ KIN002KH : Kingseat Community McKean Rd ○ MUR011MU : Muriwai ○ OKI005OK: Okiwi ONE004ON: Onewhero ○ PAE008PA : Paerata Elite H2O ○ PAP001PC : Papakura City ○ PAP001RH : Red Hill ○ PAP001TA : Takanini ○ PIN003PI : Pine Harbour O POK001PO: Pokeno O POR005PW: Port Waikato OPUR009PU: Pure Az Water ○ RIV013RI : Riverhead Park ○ SNE002SN: Snells/Algies \bigcirc SUN002SU : Sunset Heights Hyland Place ○ TUA002TN : Tuakau North ○ VIL001VI : Village Fields Subdivision O WAI194SP: Waimauku Speedy Enterprises

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○ WAI208WW : Waiheke Is. Waiheke Water
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○ WAI218IW : Waiheke Island Island Water
○ WAR006WA: Warkworth
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○ WEL004WE: Wellsford/Te Hana ○ WIN007WI: Winterjack Trust
○ WIN007WI: Winterlack Trust
○ YAS001YA: Yashili NZ
○ *** MID CENTRAL ***
AKI001AK: Akitio
BRU001BR: Brunswick-Westmere
•
○ BUL001BU : Bulls Township
○ BUN001BU : Bunnythorpe
○ DAN001DA : Dannevirke
○ EKE001EK : Eketahuna
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○ MAX001MA: Maxwell
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○ NOR002NO : Norsewood
○ NOR016NH : Norsewood Heritage
() OHADOLOH : Ohakuna Townshin
OHA0010H. Ohakune rownship
OHA002OH: Ohakea
OHA017BV: Bishops Vineyard
ORO001OR: Oroua No. 1
O PAH001PA: Pahiatua
O PAL001AO: Aokautere
O PAL001FW: Fitzherbert West
O PAL001KG: Kelvin Grove
O PAL001PC: Palmerston North City O PAT014PA: Patiarero Marae O PES001PE: Pescini Brothers
O PATOLARA DAL'
O PATU14PA: Patiarero Marae
O PESO01PE · Pescini Brothers
O DI FOODDI . Dia alguilla
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	 ○ WAN001AR: Aramoho ○ WAN001EA: Wanganui East ○ WAN001WA: Wanganui City ○ WAN005CV: Wanganui Crystal Valley ○ WAT004WA: Water 2U Wanganui ○ WO0001WO: Woodville (To be chosen by interviewer, search list or start typing code)
23b. Do you know if the private bore /	YesNoDon't know
spring	
water is treated or filtered?	
Select as many treatment methods as apply	 □ Treated Chlorinated □ Treated Boiled □ Treated with UV □ Filtered □ Treated (unknown method) □ Don't know
23b. Do you know if the tanker truck water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	 ☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23b. Do you know if the rain water is treated or filtered?	YesNoDon't know

Select as many treatment methods as apply	 □ Treated Chlorinated □ Treated Boiled □ Treated with UV □ Filtered □ Treated (unknown method) □ Don't know
23b. Do you know if the creek / stream water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	 □ Treated Chlorinated □ Treated Boiled □ Treated with UV □ Filtered □ Treated (unknown method) □ Don't know
23b. Do you know if the other main source of drinking water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	 □ Treated Chlorinated □ Treated Boiled □ Treated with UV □ Filtered □ Treated (unknown method) □ Don't know
23c. Which of the following are sources of water supply to your/ [insert	☐ Town supply ☐ Private bore / spring water ☐ Tanker truck water ☐ Roof / rain water ☐ Creek / stream water ☐ Other main source of drinking ☐ Don't know (Interviewer note
child's name] work/ preschool/school?	: Read list and select all that apply)



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23d. Do you know if the	YesNoDon't know
town supply water is treated or filtered?	
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23d. Do you know if the private bore / spring water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23d. Do you know if the tanker truck water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23d. Do you know if the roof / rain water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know

23d. Do you know if the creek / stream water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23d. Do you know if the other main source of drinking water is treated or filtered?	YesNoDon't know
Select as many treatment methods as apply	☐ Treated Chlorinated ☐ Treated Boiled ☐ Treated with UV ☐ Filtered ☐ Treated (unknown method) ☐ Don't know
23e In the 7 days before you were ill did you/your child use bottled water for drinking?	YesNoDon't know
If yes, was bottled water the only drinking water source?	YesNoUnknown
23f. In the 7 days before getting sick, did you / [insert child's name] drink any water from untreated supplies that you would not normally drink from? We mean outside of your home, work or school. E.g. bach	YesNoDon't know



23g. Specify the type(s) of untreated water supply.	☐ Town supply ☐ Private bore / spring water
	☐ Tanker truck water
	☐ Roof / rain water
	Creek / stream water
	□ Don't know
	(
	Interviewer
	note
	:
	Read
	list
	-
	select
	all
	that
	apply)
	appiy/

Select	○ *** AUCKLAN	
a	○ A1W001AW :	
town	O ART003AR:	•
water supply code for the water	O AUC003AA :	Auckland Airport
supply the	○ AUC003AU :	Auckland Anzac
case	○ AUC003AZ : ○ AUC003BU :	Buckland
drank from outside of the home.	○ AUC003B0 :	
draink from outside of the florife.	O AUC003CL:	
	O AUC003EB:	East Tamaki/Botany
	O AUC003GL :	
	O AUC003GN:	Glen Eden/New Lynn
	O AUC003HE:	Henderson
	O AUC003HH:	High Head
	O AUC003HI:	Hillsborough
	O AUC003HO:	Howick/Pakuranga
	O AUC003HT:	Hilltop
	○ AUC003HW : ○ AUC003KI :	HBC/Waiwera Kitchener
	O AUCOUSKI .	Laingholm
	O AUCOO3LA:	Maungawhau
	O AUC003MG :	Mangere
	O AUC003MO :	Montana
	O AUC003MT :	Mt Hobson
	○ AUC003MW :	Manurewa
	O AUC003ON:	Onehunga
	O AUC003OP:	Otara/Papatoetoe/Manukau Cent.
	O AUC003OR:	Oratia
	O AUC003DT:	Otahuhu
	○ AUC003PT :○ AUC003SO :	Patumahoe North Shore Sth.
	○ AUC00350 :	Swanson
	O AUC0035W:	Te Henga
	O AUC003WE :	North Shore West
	O AUC003WH:	Whenuapai
	○ AWH003AW :	Awhitu Water Farm
	○ BOM002BO :	•
	○ BOM003BO :	Bombay
	O BRO015BP:	Broadway Park Newmarket
	O BUR004BU:	Burnside Road Glennoel Farms
	O HELOOSHA:	
	O HUA002HU:	
	O HUI006HV :	
	◯ KAU010WW:	
	○ KEN005KP :	Kensington Park
	○ KIN002KH :	Kingseat Community
	○ MCK002MC :	McKean Rd
	○ MUR011MU :	Muriwai
	○ OKI005OK :○ ONE004ON :	Okiwi Onewhero
	ONEU040N:	Paerata Elite H2O
	O PAPOO1PC :	Papakura City
	O PAP001RH :	
	O PAP001TA:	
		Pine Harbour
	○ POK001PO :	Pokeno
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	○ TUA002TN :	
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11/01/2018 11:47	○ "WAI197G\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	v.pwirtied; Telegorook Beach Road P
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○ YAS001YA: Yashili NZ
○ *** MID CENTRAL ***
AKI001AK: Akitio
BRU001BR: Brunswick-Westmere
•
○ BUL001BU : Bulls Township
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○ DAN001DA : Dannevirke
○ EKE001EK : Eketahuna
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O LON001LO: Longburn
○ LON002SC : Longburn Adventist College
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		C C C II s	WAN001WA: W WAN005CV: W WAT004WA: W	ramoho anganui East /anganui City anganui Cryst /ater 2U Wang Voodville	
ENVIRONMENTAL ACTIVITIES					
Questions refer to the period one we	ek (7 days)	before the onset o	f illness.		
24a. Have you/your child participated in any ac at a indoor or outdoor swimming pool or		Ō) Yes) No) Don't know		
Which types of pool/spa have you/yo	our child visit] Public Swimming] Home Swimming] Other pool, eg Mo	Pool/Spa	chool
What are the names/locations of the pools/spas you visited?		_			
24b. In the 7 days before the following outdoor activities (playing, paddling and splashing)	ndicate al	l options that a	apply): Note: s	wimming ir	-
	Yes	If yes, tick if this was after heavy rainfall?	If yes, tick if there were livestock such as cows, sheep or other farm animals in the area?	No	Don't know
Outdoor freshwater swimming including rivers and lakes					
Outdoor sea-water swimming					
Other water activities e.g. sailing, kayaking, fishing					

Specify	
type, location and name of the outdoor freshwater swimming sites	
Specify type, location and name of outdoor sea-water swimming sites	
Specify type, location and the name of the site of other water activities, as well as the type of activity	
You mentioned you	
(your child) participated	



other water activities. What were they?

25. In the 7 days before the onset of illness did you/your child touch with your/their hands any of the following:

Under 'specify' the interviewer should establish under what circumstance the contact occurred. For example, contact with sand could have occurred 'while at the seaside'

soil	Yes	No	Don't knov
sand (e.g. sand box, beach)	0	0	0
human poo (e.g. from changing nappies)	0	0	0
sewage, stagnant water or flood water	0	0	0
manure or compost, including pet faeces (poo)	\circ	0	0
Specify how/where contact with soil oc	curred		
Specify how/where contact with sand o	ccurred		
Specify how/where contact with human	poo occurred		
Specify how/where contact with sewage, stagnant water or flood water occurred			
Specify how/where contact with manure or compost occurred			
26. During the last 7 days before your illness were flies a problem in your kitchen or food preparation areas?		YesNoDon't know	
Thank you very much for participating	in this study		
EthNZEuropean			
EthMaori			
EthSamoan			
EthCookIslandMaori			

EthNiuean	
EthChinese	
EthIndian	
EthTongan	
EthOther	
ethnicity_specify '[ethnicity_specify]'	<pre>() '[ethnicity_specify]'</pre>
Farm	
FarmSpecOption1	
FarmSpecOption2	
FarmSpecOption3	
FarmSpec	○ 'Dairy:[episurv_farmspec1], Meat
Occupation (must be referenced directly as the original sql field	n:[episurv_farmspec2],Poultry:[episurv_farmspec3] Other:[q6a_specify_other]' d to get the label, if the original field is referenced you
will get the value)	, , , , , , , , , , , , , , , , , , ,
OccupationID	
ChildWorker	
FoodHandler	
HealthWorker	
AttenSch	
AttenSch	○ '[symptoms_start_date]'
AttenSch FitClinDes	○ '[symptoms_start_date]'
AttenSch FitClinDes OnsetDt	○ '[symptoms_start_date]'
AttenSch FitClinDes OnsetDt OnsetDtApprox	<pre></pre>
AttenSch FitClinDes OnsetDt OnsetDtApprox Hosp	
AttenSch FitClinDes OnsetDt OnsetDtApprox Hosp HospName	



LastCountry	<pre>('[q13d_country_1]'</pre>
LastDtArrived	<pre>(q13d_date_enter_1]</pre>
LastDtDeparted	<pre>(q13d_date_depart_1]</pre>
SecCountry	<pre>(q13d_country_2]</pre>
SecDtArrived	○ '[q13d_date_enter_2]'
SecDtDeparted	<pre>([q13d_date_depart_2]</pre>
ThirdCountry	<pre>('[q13d_3rd_country]'</pre>
ThirdDtArrived	<pre>('[q13d_date_enter_3]'</pre>
ThirdDtDeparted	<pre>('[q13d_date_depart_3]'</pre>
OthSym	
OthSymCont	<pre> 'Close:[q14a_close_contact],Other contact:[q14a_other_contact]'</pre>
RwMilk	
RwMilkProd1Calc	
RwMilkProd1	<pre> "Milk:[episurv_rwmilkprod1calc]" </pre>
RwMilkBrand1	○ '[q18_brand_milk]'
RwMilkSce1	○ '[q18_obtained_milk]'
RwMilkProd2Calc	
RwMilkProd2	<pre>"Yoghurt:[episurv_rwmilkprod2calc]"</pre>
RwMilkBrand2	○ '[q18_brand_yoghurt]'
RwMilkSce2	<pre>('[q18_obtained_yoghurt]'</pre>
RwMilkProd3calc	
RwMilkProd3	<pre> "Cheese:[episurv_rwmilkprod3calc]" </pre>
RwMilkBrand3	○ '[q18_brand_cheese]'
RwMilkSce3	<pre>('[q18_obtained_cheese]'</pre>
SickAncalc	
SickAn	
SickAnSpec	○ 'Pets ill:[q22a_pets_illness],Chicken ill:[q22a_chicken_illness],Pig ill:[q22a_pigs_illness],Cattle ill:[q22a_cattle_illness],Sheep ill:[q22a_sheep_illness]'
CurrentWatersource1	
CurrentWatersource1	
CurrentWatersource1	



Page 205 of 211

CurrentWatersource1	
CurrentWatersource1	
CurrentWatersource1	



CurrWSSpec

○ 'Town supply:[episurv_watersource1], Private bore/spring:[episurv_watersource2],Tanker



 $episurv_watersource 5], Other: [episurv_watersource 6]'$

CurrWSCode is in the main form, as a pull down it must be referen	iced directly to use the label	
WorkWatersource1		
WorkWatersource2		
WorkWatersource3		
WorkWatersource4		
WorkWatersource5		
WorkWatersource6	<u>-</u>	

WorkWSSpec

○ 'Town supply:[episurv_workwatersource1], Private bore/spring:[episurv_workwatersource2],Tanker



	workwatersource5],Other:[episurv_workwatersource6]	
Untreated		
UntreatedWatersource1		

UntreatedSource

○ 'Town supply:[episurv_untreatedsource1], Private bore/spring:[episurv_untreatedsource2],Tanker



	untreatedsource5],Other:[episurv_untreatedsource6]'
Pool	
PoolSpec1calc	
PoolSpec1	<pre>"Public:[episurv_poolspec1calc]"</pre>
PoolSpec2calc	
PoolSpec2	"Home:[episurv_poolspec2calc]"
PoolSpec3calc	
PoolSpec3	<pre>Other:[episurv_poolspec3calc]"</pre>
RiverSeaSpec1	<pre>('[q24_outdoor_swim_location]'</pre>
RiverSeaSpec2	<pre>('[q24_other_sea_water_loc]'</pre>
OthRecSpec	<pre>('[q24_other_water_loc]'</pre>
ContFaecal	
ContFaecalSpec	'Poo contact:[q25_specify_poo], Sewage contact:[q25_specify_sewage], Compost contact:[q25_specify_compost]'

APPENDIX B: PARTICIPANT INFORMATION SHEETS

Ministry for Primary Industries Manatū Ahu Matua



Source Attribution of Campylobacteriosis in New Zealand Study: Lay Summary for Cases

Thank you for participating in the study by being interviewed about your illness and the factors that might have contributed to it. Your consent was obtained at the commencement of the interview; nevertheless, if would now like to withdraw from the study that is your right. Please contact Dr Rob Lake at ESR (rob.lake@esr.cri.nz, 03 3516019) if you would like to withdraw, or obtain further information about the study.

This information sheet is intended to provide additional information about the study and its objectives.

Minimising the risk to New Zealand (and overseas) consumers from food is a primary public health goal for the Ministry for Primary Industry (MPI). Similarly, the Ministry of Health is committed to minimising communicable diseases transmitted by non-food pathways.

The number of notified cases of the bacterial infection campylobacteriosis reduced by 50% over the period 2006–2008 following the implementation of interventions for poultry. Since then the number of notified cases has not declined significantly. Having reduced the risk associated with poultry, other causes are becoming relatively more important. We have little information on these other causes and pathways for the illness in New Zealand.

Source attribution is the estimation of the relative contributions of different sources to the burden of human illness to inform policies for prevention and control. The different elements of campylobacteriosis source attribution fit within a wider framework:

- Animal reservoirs/amplifying hosts poultry, cattle, sheep, pets, wildlife
- Pathways environment/water, food chain, direct contact
- Exposure drinking water, recreational water, meat, milk, occupation, farm dwelling
- Risk factors drank roof supplied water, swam in river, ate BBQ chicken, drank unpasteurised milk, poultry abattoir worker, child rearing pet calf.

For several years MPI has been supporting a sentinel site study conducted by Massey University in Manawatū-Whanganui to provide source attribution information for campylobacteriosis. The information from this geographical region needs to be updated and expanded.

The study in which you were a participant is intended to provide information on risk factors for *Campylobacter* infection amongst the Manawatū/Whanganui and Auckland populations. In particular, this will help us understand risk factors for urban people.

This study will use a case-control comparison approach, where information on activity by cases is compared with controls who do not have the illness. The study will also use new scientific advances which enable us to determine the sequence of the DNA from *Campylobacter* bacteria isolated from ill people. These people are often asked by doctors to provide faecal samples to enable diagnosis of the cause of their illness, and the cases in our study will be those people who do provide a sample and it is found to contain *Campylobacter*. Our study will obtain subsamples of these already provided clinical samples if the illness cause is diagnosed as infection with *Campylobacter*. Note that no additional samples are being taken, and only the bacterial DNA will be studied, no human DNA is involved.

We will also be sampling various foods and animals to isolate *Campylobacter* from these potential sources. By comparing the DNA sequence of the bacteria from cases with those from potential sources, we can develop a more detailed understanding of risk factors.

The plan is to publish the results of this study, as a study report, by the end of 2019 and subsequently as scientific papers. The report and a lay person summary will be available on the website: www.sacnzs.org.nz



Letter for control cohort candidates

Dear XXXX,

I am writing to you as you recently participated in the New Zealand Health Survey, and at the time you agreed that the Ministry of Health could re-contact you for further health research. We are conducting a telephone survey on the bacterial infection campylobacteriosis. This is one of the most common bacterial infections and we want to know New Zealanders are becoming infected.

As part of the study, we are inviting people from Auckland and Manawatū-Whanganui to take part, who have not had the infection. This letter is to inform you that you **may** be contacted to participate in the study.

Participation is completely voluntary, but we do rely on the goodwill of those selected to make the study a success. If you don't want to take part, you don't have to give a reason. If you do decide to take part now, you can still decide to pull out at any time.

The attached Study Information Sheet will help you decide if you'd like to take part. It explains why we are doing the study, and more about what your participation would involve. We are available to answer any questions you may have. We expect the survey will take up to 25 minutes, depending on how many questions you answer. You may also want to talk about the study with other people, such as family, whānau, friends, or healthcare providers. Feel free to do this.

Thank you for considering this request.

Dr Rob Lake Manager, Risk and Response Group, ESR P O Box 29–181 Christchurch 8540

Phone: 03 3516019

Email: rob.lake@esr.cri.nz

Information Sheet

Source Attribution for Campylobacteriosis in New Zealand Study (SACNZS)

Locality: Auckland and MidCentral Public Health Services Regions

Lead investigator: Dr Donald Campbell, Ministry for Primary Industries

What is the survey about?

Campylobacteriosis is an illness caused by a bacteria. In New Zealand, every year, about 60,000 people, and particularly children, become ill from this bacteria and we would like to know why. The information you provide will help us to understand the causes of this illness so that measures can be put in place to reduce the number of people getting sick.

How will the results be used?

The results from the survey will be used to compare the habits and experiences of a group of people who have recently become sick with an infection from the bacteria, with the habits and experiences of a group of people who have **not** recently had this illness. We can then look at these results to determine what aspects of peoples habits and experiences put them at more risk of becoming sick.

The information gathered from this survey will be used to inform and improve policy in order to reduce the number of infections from Campylobacter bacteria nationally in New Zealand.

Who is carrying out the survey?

The Ministry for Primary Industries is leading this research, with participation of Massey University, the Institute of Environmental Science and Research (ESR, a Crown Research Institute), and two Public Health Services covering five District Health Boards.

What sort of questions will be asked?

You will be answering questions during a phone call that will cover aspects of your contact with animals or ill people, travel, food and water you have consumed, and activities you may have taken part in for up to 2 weeks ago. The study will not collect any information about you other than the information provided by you during the interview.

How long will the survey take?

The survey will take 15–25 minutes depending on how many of the questions are relevant to you. We will schedule appointments to call at a time that is convenient. Please let your household members know that UMR Research will be calling to schedule an appointment with you.

Risks and benefits of the study

While there will be no risks to you from participating in this study, unfortunately there will be no immediate benefits to you either. People usually find the questions quite interesting. You do not have to answer any questions you do not wish to answer, and you can stop the interview at any time. The results from our study will help to guide policy efforts in New Zealand at a national level, so we can prevent people from becoming ill in the future. So the anticipated benefits to the scientific community and society are high.

Do I have to take part?

No, participation is completely voluntary, but we would like as many people as possible to take part to ensure the results are reliable. We will only ask you to participate once. You can withdraw from the study at any time.

How will my information be protected?

The information you provide to the interviewer is confidential and the study organisers guarantee that storage of your information will be in accordance with the requirements of the Privacy Act 1993. This is also a requirement of the Health and Disabilities Ethics Committee approval. Like the New Zealand Health Survey, the answers you give in this survey will be added to other people's answers to create an anonymised dataset. This means that your name is not included and no one will be able to identify you by looking at your answers. The dataset will be stored securely at the Institute for Environmental Science and Research Ltd.

Your name and contact details will be kept in another secure file. The purpose of recording these details is to know who has been contacted, and you will not be contacted again for such additional studies.

Participants will not be identifiable in any of the reports or presentations of findings from this survey.

Where can I find the study results?

The plan is to publish the results of this study by the end of 2019 and subsequently as scientific papers. The report will be available on the website: www.sacnzs.org.nz

Who has funded this survey?

The study is being funded by the Ministry for Primary Industries (MPI).

Has the study received ethical approval?

Yes, this project has been reviewed and approved by the Health and Disability Ethics Committee

Where can you go for more information about the study, or to raise concerns or complaints?

If you have any questions, concerns or complaints about the study at any stage, you can contact Dr Rob Lake using the contact details above.

APPENDIX C: SACNZS WEBSITE TEXT

Source Attribution of Campylobacteriosis in New Zealand Study

To find out more about this study, use one of the channels below

Contact us

email Rob.Lake@esr.cri.nz

Every year, about 60,000 people become ill from *Campylobacter* in New Zealand. The Ministry for Primary Industries is investing in a year-long study that will help reduce the number of cases of campylobacteriosis in New Zealand.

The Ministry for Primary Industries (external link) is committed to reducing the incidence of campylobacteriosis. The Source Attribution of Campylobacteriosis in New Zealand Study (SACNZS) is being carried out on MPI's behalf by ESR and Massey University in association within certain North Island district health boards and will look at campylobacteriosis cases over the course of a year to determine the different contributors to the disease. This information will then be used to help manage the risks associated with campylobacteriosis and inform policies for prevention and control.

New Zealand is a world leader in this space, having worked in and published in this field for more than a decade. Previous efforts by MPI and the poultry industry has led to almost a 50 per cent reduction in cases of campylobacteriosis from food (poultry) in recent years but we need to know more about other environmental causes (e.g. animals, water) of Campylobacteriosis. This new study will increase our understanding of these other sources and how to best manage the risk to public health.

The results of this study will be published on this webpage as a study report, by the end of 2019, followed by additional scientific papers.

To find out more about this study, read the background information below, or contact:

Dr Rob Lake, ESR Phone: 03 3516019

Email: rob.lake@esr.cri.nz







Documents for those participating in the SACNZS

This study is recruiting campylobacteriosis cases in both the Auckland and Manawatu/Whanganui regions, as well as controls, to gather information and help determine the sources of the disease. The documents provided below are for the participants in the study.

<u>Information sheet for Auckland region cases</u> [PDF, 109 KB]: Info about the study and contact details for further information and support following the interview.

Information sheet for Manawatu/Whanganui region cases [PDF, 64 KB]: Info about the study and contact details for further information and support following the interview.

<u>Information sheet for controls from the New Zealand Health Survey cohort</u> [PDF, 100 KB]: Info about the study and advisory regarding a possible interview.

Background to the SACNZS

Campylobacteriosis (infection with *Campylobacter* bacteria) is a very common illness in New Zealand. The infection causes diarrhoea and vomiting, and in a small number of cases, a long term illness or even death.

We know the illness is common in New Zealand because it is notifiable. That means that when a sick person visits their GP, they are often asked to provide a stool sample for analysis. If *Campylobacter* is detected by a laboratory in that sample, the laboratory and GP notify the health surveillance system.

The rate of illness in the New Zealand population did drop by approximately 50% from 2006–2008, as a result of controls in the poultry processing industry, which is a common source of infection. However, since 2008 the rate has stayed much the same, and is still the highest of all the notifiable bacterial infections.

Minimising the risk to New Zealand (and overseas) consumers is a primary public health goal for the Ministry for Primary Industries (MPI). The Ministry of Health (MoH) is committed to decreasing communicable diseases to humans transmitted by non-food pathways.

Another common source of infection with *Campylobacter* is ruminants i.e. cattle (both dairy and beef) and sheep. As with poultry, exposure may occur through meat handling and consumption. However, it is more likely that exposure from ruminants occurs via other pathways e.g. direct contact with livestock, or livestock faecal contamination of the environment. We call ruminant animals "reservoirs" of the bacteria, because their faeces contain large numbers.

As the importance of poultry as a source of *Campylobacter* infection has reduced, the proportion of infections caused by exposure to other sources has increased. This study is designed to tell us more about these other sources and pathways.

The planned study is a year-long case-control study. This means we will be interviewing notified campylobacteriosis cases about their food consumption and other activities, and comparing them with information from interviews with controls i.e. people who have not been sick.

The aims of the study are:

- to estimate the relative contributions of different sources to the burden of human campylobacteriosis in the New Zealand population
- to inform policies for prevention and control of campylobacteriosis in New Zealand The objectives are to address MPI's food related objectives by estimating:
 - what proportions of human cases of campylobacteriosis can be attributed to specific exposures?
 - what are the risk factors for human campylobacteriosis (urban and rural cases)?
 - what proportions of human cases of campylobacteriosis can be associated with individual source reservoirs?

The benefit expected from this study is evidence to support campylobacteriosis risk analysis (risk management and risk communication) and thereby reduce the disease burden in both the New Zealand population and elsewhere.

In addition to examining the information from cases and controls, we will be obtaining isolates of the bacteria that made the cases sick. These isolated bacteria will be analysed to characterise their genetic background (DNA). This can be compared with the same information from bacteria isolated from potential sources, and tell us about linkages between sources and cases.

Source attribution is the estimation of the relative contributions of different sources to cases of human illness. The different elements of campylobacteriosis source attribution fit within an overall framework⁷:

- Animal reservoirs/amplifying hosts poultry, cattle, sheep, pets, wildlife
- Pathways environment/water, food chain, direct contact
- Exposures drinking water, recreational water, meat, milk, occupation, farm dwelling
- Risk factors drank roof supplied water, swam in river, ate BBQ chicken, and drank unpasteurised milk, being a poultry abattoir worker, child rearing pet calf.

This study has been approved by the Health and Disabilities Ethics Committee.

APPENDIX D: ETHICS APPROVAL

Ethical Considerations and Approvals

The study was conducted in full conformance with principles of the "Declaration of Helsinki" (2013), and within the laws and regulations of New Zealand.

To assure the quality of the technical aspects of the study, the potential risks and proposed benefits of the study procedures, the priority of the participants' interests over those of science and how these would be safeguarded, the study design and instrument development was assisted by an independent Advisory Group. In addition, the participating public health services were involved to ensure public health investigation and control are in no way prejudiced.

Case participant consent was sought verbally after the study was described to them by the interviewers using standard wording. All cases were sent a campylobacteriosis information sheet post their interview which contained contact details for seeking further information or withdrawal from the study. All potentially eligible controls were sent material describing the study and how and why they might be contacted and the study contact details. Recruitment and giving of verbal consent was similar to cases.

Children have the highest rate of campylobacteriosis notification, thus it was important that their exposures and risk factors were identified. For those <16 years of age, parental or guardian verbal consent for participation was obtained. In discussion with this person, a decision was made as to the most appropriate responder. If this was the child, their verbal assent was also obtained.

To obtain isolates from notified cases, diagnostic laboratories were asked to provide swabs from faecal samples that test positive for *Campylobacter* and so would be notified. Faecal material is classed as human tissue according to the Human Tissue Act 2008. This use of human tissue was justified on the basis that during the course of the study some participating diagnostic laboratories changing their faecal testing to be conducted by polymerase chain reaction (PCR) only, which does not require culture on a plate. The original plan, to request swabs from culture plates, was amended to cope with this change and allow the study to proceed over the entire 12-month period.

The study dataset consists of:

- REDCap records of case interviews (initially identified by an EpiSurv number and then assigned a study number by ESR Principal Investigator)
- Qualtrics records of control Interviews (supplied by the market research company and identified by a study number assigned by ESR Principal Investigator)
- Isolates from notified cases who were interviewed (linked to a case using an NHI number supplied with the sample matched to the EpiSurv number and then identified by study number assigned by ESR Principal Investigator)
- Isolates from source samples (identified by a study number assigned by ESR Principal Investigator)

Once a study number was assigned to a case or control interview or isolate, any personal identifying information including EpiSurv and NHI numbers was deleted. Each participating PHS retained access to the REDCap interviews they had conducted, for public health purposes.

Selected case isolates (approximately 600) and all source isolates, identified by study number, sent to Massey had WGS carried out. Raw sequence data and interpreted data

(e.g. assigned MLST type) and associated study were shared with ESR for incorporation into the study dataset.

Analysis of the anonymised complete study dataset was conducted jointly by staff from Massey and ESR to fulfil the objectives of the study.

Ethics approval for the study was sought from the Northern B Health and Disability Ethics Committee (HDEC). The application was submitted on 13 October 2017. Provisional approval was granted on 22 November 2017 (Ethics Reference: 17/NTB/206) subject to a number of modifications.

These changes were made (apart from the karakia option for sample disposal, which was impractical as the receiving laboratory would not know the ethnicity of the sample provider) and additional information submitted back to the Committee on 5 December 2017. On 20 December 2017 full approval was given, subject to some minor non-standard conditions.

These conditions were addressed and the revised material sent to the Committee on 21 December, with an acknowledgement of receipt received on 22 December.

The approval letters and receipt for non-standard conditions were circulated to the Research and Māori Committee of each of the five District Health Boards (DHB) involved in the study. All of the five DHBs provided locality approval on the HDEC website, as well as letters from their Research Committees approving the study.

Letters of approval were also provided by the Counties Manukau and MidCentral DHB Māori Research Committees.

A progress report was provided to HDEC on 19 December 2018.

Ethics Approval from District Health Boards (DHBs)

Ethics approvals from committees of DHBs were received from:

Auckland DHB

Auckland DHB Research Review Committee (15 January 2018)

Auckland DHB Māori Research Committee (8 December 2017)

Waitemata DHB

Waitemata DHB Research and Knowledge Centre (8 November 2017)

Waitemata DHB Māori Research Committee (8 December 2017)

Counties Manukau DHB

Counties Manukau Health Research Office (21 December 2017)

Counties Manukau Maori Research Review Committee (10 January 2018)

MidCentral DHB (approvals also include Whanganui DHB):

MidCentral DHB Māori Research Review Group (30 November 2017)

MidCentral DHB Clinical Board (7 December 2017)

APPENDIX E: CONTROL QUESTIONNAIRE

Final 1

ESR Survey – April 2018

	QUOTA REG1 FILE='a1'PASS=OK IF .NOT.OK ASK	
Thank you	ı for your time we have reached our quotas for your area	
	IF CAGE=99 ASK	
INTRO behalf	Hello, my name is %INAME%. I'm calling from UMR Rese	arch on
	of the Ministry for Primary Industries.	
from	I would like to speak to %ANAM% [Person 16+ years ide	ntified
	Database] - Is that you?	
Introduct	[If the correct person is on the telephone, go to cion.]-[If	
please	it is not the correct person on the telephone, ask, c	an I
	speak to %ANAM%?	
Greeting	[When the correct person comes to the telephone - rep	eat
	and go to Introduction]	
	[If the correct person is not available, depending on required:	quotas
	A) - Thank the person on the telephone and end the ca	11, or
is in.	B) - Arrange a time to call back when the named conta	ct person
	Proceed[]	SP GO TO
SKIPINT1	2200000[]	55 10
	Stop interview, Make Appointment (ARRANGE CALL	

	BACK)[] Don't proceed[]
	GOTOSMS
SKIPINT1	CONTINUE
research	contacted you because you have previously agreed to take part in surveys. We are conducting a national survey about acteriosis
in the Ne	ew Zealand population.
This is a	an illness caused by bacteria and symptoms can include abdominal
stomach property	pains, fever and diarrhoea (runny poos). New Zealand currently has
high rate	es of illness and we would like to understand why. Your
in this s	study is important as it will help us to understand the potential
factors, people	so that measures can be put in place to reduce the number of
who get s	sick.
The surve	ey is approved by the Health and Disability Ethics committee. The
interview	w with you is confidential and may take about 20-25 minutes.
ADULTY	Would you be happy to take part in this survey? [DO NOT READ]
SKIPE1	Yes
	No
	GOTOSMS
SKIPE1	CONTINUE
AFTSMS	CONTINUE

E3 Were you part of a food poisoning outbreak in the last 30 days?
[DO NOT READ]

Yes...... 1 GO TO

SKIPE5

To comply with the rules for this survey, specified by the Health and Disability Ethics Committee, we need to ask you for verbal consent to use your

[[]Verbal consent of selected adult participant]:

answers for research purposes only. Firstly, we must tell you that:

- The answers you give in this survey will be added to other people.s answers

to create an anonymised dataset. This means your name is not included and no

one will be able to identify you by looking at your answers. The dataset will

be stored securely at the Institute for Environmental Science and Research Ltd.

- You can quit the survey at any time, even after completing the questionnaire

by contacting us.

- You may refuse to answer any questions that you would prefer not to answer.
- The findings from the study will be published in scientific reports, but

these do not contain identifiable personal information.

- Information will be stored for 10 years before it is destroyed.

If you have any concerns or questions, you can contact: Rob Lake at ESR at Phone (03)3516019 Email rob.lake(at)esr.cri.nz

E4Do you consent for your answers to be used for research purposes only? [DO NOT READ] GO TO SKIPD1 No......2 Unsure......3 CONTINUE SKIPE5 E5 I am sorry, but you are not eligible for this survey. Thank you for your time anyway - maybe we will be in touch about another survey in

future?

$\Gamma D \cap$	NTOIL	READI	
1 1)()	IXI().1.	READI	

	Respondent Does Not Meet the Criteria for the	
	Survey1	
	IF CAGE<16 ASK	
GINTRO	Hello, my name is [%INAME%]. I'm calling from UMR Res	earch on
	of the Ministry for Primary Industry.I would like to [%PTGDN%] - is that you?	speak to
talking	If talking to the correct person, go to Introduction.]-[If
the	to the wrong person, ask, can I please speak to [%PTG	DN%]-[When
to	correct person comes to the telephone - repeat Greeti	ng and go
. ,	Introduction If the correct person is not available, depending on	quotas
required:	A) - Thank the person on the telephone and end the ca B) - Arrange a time to call back when the [%PTGDN%] i	
owingi1	Proceed[]	SP GO TO
SKIPGI1	Stop interview, Make Appointment (ARRANGE CALL BACK)[]	
	Don't proceed[]	
	GOTOSMS	
SKIPGI1	CONTINUE	

We have contacted you because you have previously agreed to take part in research surveys, including surveys on behalf of [%CNAM%]. We are conducting a

national survey about Campylobacteriosis in the New Zealand population. This is an illness caused by bacteria and symptoms can include abdominal or

stomach pains, fever and diarrhoea (runny poos). New Zealand currently has very

high rates of illness and we would like to understand why. Your participation

in this study is important as it will help us to understand the potential risk

factors, so that measures can be put in place to reduce the number of people

who get sick.

The survey is approved by the Health and Disability Ethics committee. The interview with you is confidential and may take about 20-25 minutes.

GRD [INTERVIEWER NOTE: If child age is too young, code to NO] [DB Age:] Because (%CNAM%) is under the age of 16 we need to ask you whether you consider he / she is capable of understanding the nature of the survey and answering the questions for themselves, or whether you consider you would need to do this for them. Do you think that (%CNAM%) would be able to understand the nature of this survey and to answer the questions for themselves? Yes - child can complete survey......1 No - adult to do survey on behalf.....2 IF GRD='Yes - child can complete survey' ASK CU16Y Can I please speak to (%CNAM%)? [If the correct person is not available, depending on quotas required:]

SP

SKIPG1	Proceed - correct person
	Arrange a time to call back when the person is in[]
	Thank the person on the telephone and end the
	call[]
	GOTOSMS
SKIPG1	CONTINUE
GRD1	[When the correct person comes to the telephone - explain]
behalf	Hello, my name is [%INAME%].I'm calling from UMR Research on
survey to	of the Ministry for Primary Industry. We are conducting a
	try and understand why some people catch an illness which can
give	
	them stomach pains, fever and diarrhoea (runny poos) and others
the	don't.(%PTGDN%) has given us permission for you to take part in
confiden	survey. Would you be happy to do the interview? It is
	(private) and will take about 20 minutes.
	[DO NOT READ]
SKIPGE1	Yes
	No /Unsure [INTERVIEWER: ASK TO SPEAK TO
GRD2	PARENT/GUARDIAN]2 GO TO
	IF GRD='No - adult to do survey on behalf' ASK
GRD2 child	Can I just confirm that you have a good knowledge of what the
the	has eaten, where they have been and what they have done over
	last seven days?
	Would you be happy to do the interview on [%CNAM%] behalf? [DO NOT READ]

SKIPGE3	Yes
GRD7	No /Unsure
	ASK ALL
SKIPGE3	CONTINUE
GRD3	Before we start, I need to know whether [%CNAM%] meets the
	for the survey.
vomiting	In the last 30 days, has [%CNAM%] suffered from symptoms of
(We	or diarrhoea, or had any other stomach or intestinal illness?
in any	define diarrhoea as 3 or more loose stools or bowel movements
	24-hour period.)
GRD7	Yes
	No
GRD4 30	Has [%CNAM%] been notified with Campylobacteriosis in the last
	days. This would have involved your Doctor or another health official contacting you to say that the stool -pooh- sample
that	[%CNAM%] gave had tested positive for Campylobacter.
GRD7	Yes
	No
GRD5 30	Has [%CNAM%] been part of a food poisoning outbreak in the last
	days?

GRD7	Yes
	No2
	Unsure3
[Verbal con	nsent of Parent of Guardian of respondent aged 15 years or
To comply	with the rules for this survey, specified by the Health and
Disability your	Ethics Committee, we need to ask you for verbal consent to use
answers, or must	n behalf of [%CNAM%] for research purposes only. Firstly, we
tell you th	hat:
The answers to	s you give in this survey will be added to other people's
create an a	anonymised dataset. This means your name is not included and no
will be ab	le to identify you by looking at your answers. The dataset will
stored seco	urely at the Institute for Environmental Science and Research
- You can questionna	quit the survey at any time, even after completing the ire
by contact:	ing us.
- You may answer.	refuse to answer any questions that you would prefer not to
- The find do	ings from the study will be published in scientific reports, but
not contain	n identifiable personal information.
- Informat	ion will be stored for 10 years before it is destroyed.
If you have	e any concerns or questions, you can contact:
Rob Lake a	t ESR on (03)3516019 or Email rob.lake(at)esr.cri.nz
GRD6	Do you consent for your answers, on behalf of [%CNAM%] to be
	for research purposes only?
G7SKIP	Yes - I consent
J , DI(11	No2

IF GRD6='No' ASK

Thank	you for your time
	- ASK ALL
GRD7	- CONTINUE
Thank	you for your time, but %CNAM% is not eligible for the survey.
	- ASK ALL
G7SKIF	- CONTINUE
SKIPD1	- CONTINUE
DEM1 6U	CONTINUE
only. [ASK F [Inter	Pllowing questions are about and are for statistical purposes PARENT/ GUARDIAN ANSWERING ON BEHALF OF A CHILD: Eviewer to stress to respondent that the interview is only about that and not any other child who live in the household.
D1	What is gender?
	Male
	IF AGE2=0 ASK
D2MTH	Would you mind confirming age please?

	1 TO 48	(39-40)
D2QTA SI	ET TO:	
	GOTO SKIPD3 IF AGE2 NOT 0 ASK	
D2A	Would you mind confirming age please? [Our database has]	
	Yes correct age No incorrect, specify correct age Refused	2
	IF D2A='No incorrect, specify correct age' ASK	
D2B	Would you mind confirming age please? [RECORD CORRECT AGE IN YEARS]-[SAMPLE DB:]	
	0 то 99	(42-43)
	IF D2A='Refused' ASK	
D2C	Would you mind telling me which one of the foll is in? [READ LIST]	owing age groups
	6-11 months	2

	45-64 years	6
	65+ years	7
	Refused	8
	IF D2C='Refused' ASK	
Thank you	for your time we have reached our quot	as for your area.
	ASK ALL	
SKIPD3	CONTINUE	
	QUOTA D2QTA FILE='a2'PASS=OK IF .NOT.OK ASK	
Thank you	for your time we have reached our quot	as for your area.
	ASK ALL	
D3 choose	Which of the following ethnic groups	belong to? You can
	more than one.	
	[READ LIST]	
		MP
	New Zealand European	1
	Maori	2
	Samoan	3
	Cook Island Maori	4
	Tongan	5
	Niuean	6
	Chinese	7
	Indian	8
	Unwilling to answer	9
		MP
	Other (specify)	0

Q1A that	live or work on a farm, lifestyle block or other	r pr	emi	ses			
	has farm (not pet) animals?						
	Yes1	GO	TO	Q1B			
	No2	GO	TO	Q3			
	Don't Know3	GO	TO	Q3			
Q1B	:						
	[READ LIST]						
	Live on a farm/lifestyle block1						
	Work on a farm/lifestyle block/premises2						
	Live on a farm/lifestyle block AND I work on a						
	<pre>farm/lifestyle block3</pre>						
	Work at another premise that has animals4						
	IF Q1B='Work at another premise that has animals.' ASK						
Q1BOTH	Please describe the other premise that has animals						
	(8-27)						
	ASK ALL						
 Q2	Does the farm, lifestyle block or premises that	1 1 11					
or	boes the farm, filestyle block of premises that	TTV	C (2	> <i>)</i>			
	work(s) on have						
	MP						
	Dairy animals1						
	Meat production animals						
	Poultry (e.g. Chickens, ducks)3						

Dairy animals>' ASK nd of Dairy animals? IST] MP
MP
Meat production animals>' ASK
nd of Meat production animals:
MP
Poultry (e.g. Chickens, ducks)>' ASK
1

Q2C What kind of poultry? [READ LIST]

MP

	Domestic poultry (home use only)1
	Commercial poultry2
	Poultry processing3
	Other poultry4
	IF Q2=' <other animals="">' ASK</other>
 Q2D	What other farm animals?
	[OPEN ENDED]
	(32-51)
	ASK ALL
 Q3	When come(s) inside from working/playing outside, do
	wash hands?
	Always1
	Most of the time2
	Only if visibly dirty3
	Occasionally4
	Never5
	IF CAGE=99 ASK
Q4	What is your job or occupation. If you have more than one job,
	please tell me all of them.
involve	[The study is particularly interested in occupations that
	animal, food, environmental or healthcare contact. Occupations
of	
	this sort should be probed for a more specific description. For
or	example, .poultry processor., rather than just .food processor.
1	.factory worker Note that the participant may have more than
	job.]

	ME
	Job title 1:^o1
	Job title 2:^o2
	Job title 3:^o3
	no job/unsure/refused4
	Other (specify) 5
	(54-73)
	Specified Other
Q5	Do you work directly:
	[READ LIST - MULTI-RESPONSE]
	MP
	With animals1
	With food2
	With the outdoor environment3
	In healthcare or a rest home, where you are in
	physical contact with patients4
	In an early childhood centre5
	None of those6
	IF AGE2<19 ASK
Q6	In the last seven days, did attend?
	[DB AGE:]
	Preschool1
	School2
	Other day care or educational institution3
	Don't know4
	None of these5
	Refuse to answer6
	ASK ALL
Q7A gastric	In the last four weeks, take any form of treatment for
	acid, stomach ulcers or acid reflux?
	Yes1

IF Q7A='Yes' ASK	Q7BZ	Can you tell me the name of the treatment? [DO NOT READ PRECODE LIST]
[DO NOT READ PRECODE LIST] [INTERVIEWER - IF OTHER, PROBE TO CHECK THE TABLET/MEDICI Mylanta	Q7BZ	[DO NOT READ PRECODE LIST]
[DO NOT READ PRECODE LIST] [INTERVIEWER - IF OTHER, PROBE TO CHECK THE TABLET/MEDICI Mylanta	Δ1 ΔΔ	[DO NOT READ PRECODE LIST]
Mylanta		
Quick-eze .2 Alu-tab .3 Eno .4 Gaviscon .5 Losec .6 Omeprazole .7 Nexium .8 Lanzole .9 Solox .0 Lansoprazole .1 Panzop .2 Pantoprazole .3 Zantac .4 Ranitidine .5 Peptisoothe Syrup .6 Cimetidine .7 Unsure .8 Other (specify) .9	BOTTLE]	[INTERVIEWER - IF OTHER, PROBE TO CHECK THE TABLET/MEDICINE
Alu-tab		Mylanta1
Eno		Quick-eze2
Gaviscon 5 Losec 6 Omeprazole 7 Nexium 8 Lanzole 9 Solox 0 Lansoprazole 1 Panzop 2 Pantoprazole 3 Zantac 4 Ranitidine 5 Peptisoothe Syrup 6 Cimetidine 7 Unsure 8 Other (specify) 9 (42-61)		Alu-tab3
Losec. 6 Omeprazole. 7 Nexium. 8 Lanzole. 9 Solox. 0 Lansoprazole. 1 Panzop. 2 Pantoprazole. 3 Zantac. 4 Ranitidine. 5 Peptisoothe Syrup. 6 Cimetidine. 7 Unsure. 8 Other (specify) 9 (42-61)		Eno4
Omeprazole .7 Nexium .8 Lanzole .9 Solox .0 Lansoprazole .1 Panzop .2 Pantoprazole .3 Zantac .4 Ranitidine .5 Peptisoothe Syrup .6 Cimetidine .7 Unsure .8 Other (specify) .9 (42-61)		Gaviscon5
Nexium. 8 Lanzole. 9 Solox. 0 Lansoprazole. 1 Panzop. 2 Pantoprazole. 3 Zantac. 4 Ranitidine. 5 Peptisoothe Syrup. 6 Cimetidine. 7 Unsure. 8 Other (specify) 9 (42-61)		Losec6
Nexium. 8 Lanzole. 9 Solox. 0 Lansoprazole. 1 Panzop. 2 Pantoprazole. 3 Zantac. 4 Ranitidine. 5 Peptisoothe Syrup. 6 Cimetidine. 7 Unsure. 8 Other (specify) 9 (42-61)		Omeprazole7
Solox. .0 Lansoprazole. .1 Panzop. .2 Pantoprazole. .3 Zantac. .4 Ranitidine. .5 Peptisoothe Syrup. .6 Cimetidine. .7 Unsure. .8 Other (specify) 9 (42-61)		
Lansoprazole .1 Panzop .2 Pantoprazole .3 Zantac .4 Ranitidine .5 Peptisoothe Syrup .6 Cimetidine .7 Unsure .8 Other (specify) 9 (42-61)		Lanzole9
Panzop. .2 Pantoprazole. .3 Zantac. .4 Ranitidine. .5 Peptisoothe Syrup. .6 Cimetidine. .7 Unsure. .8 Other (specify) 9 (42-61)		Solox0
Panzop. .2 Pantoprazole. .3 Zantac. .4 Ranitidine. .5 Peptisoothe Syrup. .6 Cimetidine. .7 Unsure. .8 Other (specify) 9 (42-61)		Lansoprazole1
Pantoprazole. 3 Zantac. 4 Ranitidine. 5 Peptisoothe Syrup. 6 Cimetidine. 7 Unsure. 8 Other (specify) 9 (42-61)		
Zantac		
Ranitidine		
Peptisoothe Syrup		
Cimetidine		
Unsure		
Other (specify) 9 (42-61)		
(42-61)		
Specified Other		,
		Specified Other

Q8		st four we	eks, t	aken any of	the followin	ıg
medication?	2					
	TE DECDO	NIDENIA MENIA	TONG A CHEDO		N DDEDNICONE	. CEIECE
YES	[IF RESPO	NDENT MENT.	IONS A STERO	ID OTHER THA	N PREDNISONE	, SELECT
-	FOR PREDN	IISONE]				
-1-	Prednison	e or any o	ther steroid	not used on	skin	
-2-	Cyclospor	ine				
-3-	Methotrex	ate				
-4-	Chemother	apy				
-5-	Radiation	treatment				
		-1-	-2-	-3-	-4-	-5-
		3/28	(29)	(30)	(31)	(32)
SP						
Yes		1	1	1	1	1
No		2	2	2	2	2
Don't know.		3	3	3	3	3
Q9	bee	n told by	your doctor	that s	uffer from a	long-
term or						
	chronic i	llness in	which diarrh	oea or vomit	ing is a maj	or
symptom?						
	[For exam	ple, condi	tions such a	s Crohn.s di	seases, irri	table
bowel						
			e colitis, s	tomach or oe	sophagus (re	flux)
	problems?					
	[DO NOT R	READ]				
	Vos				1	
	DOU'L KNO)W	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
]	F Q9='Yes	' ASK				
	suf	fer from				
~-		T - MULTI]				
					MP	
	Crohn's d	liseases			1	
	Irritable	bowel sync	drome		2	

	Ulcerative colitis3
	Stomach or oesophagus (reflux) problems4
	Another chronic illness^o5
	Other (specify) 6
	(35–54)
	Specified Other
	ASK ALL
We are now	extstyle v going to ask you some questions about any travelling
have done,	both in NZ and overseas.
Q10A home	In last seven days, travel and stay away from usual
	for one or more night within New Zealand?
	Yes1
	No2
	Don't know3
	Refused4
	IF Q10A='Yes' ASK
 Q10B	Where in New Zealand did travel to?
	MP
	Location 1:^o1
	Location 2:^o2
	Location 3:^o3
	Other (specify) 4
	(57-76) Specified Other
	<u> </u>
	ASK ALL
Q11A days?	been overseas [OUTSIDE OF NEW ZEALAND] in the last seven

	[DO NOT READ]
	Yes1
	No2
	Don't know3
	Refused4
	IF Q11A='Yes' ASK
 Q11B	What date arrive back in New Zealand?
	[RECORD DATE IN FOLLOWING FORMAT dd/mm/yyyy]
	(8-27)
Q12 last	How many countries outside of New Zealand visit in the
	seven days?
	11
	22
	3 or more3
	IF Q12='1' OR Q12='2' OR Q12='3 or more' ASK
Q12A Zealand?	Please name the last country visited outside of New
	[PRECODE LIST - DO NOT READ]
	Australia1
	England2
	China3
	United States4
	Fiji5
	Samoa6
	Tonga7
	New Caledonia8
	Thailand9
	Singapore0
	Vietnam1
	Philipines

	Malaysia	3
	Other (specify)	4
		(31-50)
	Specified Other	
Q12AI date	Please state the date that enter	red that country and the
	that \ldots departed from that country	
	[PLEASE ENTER IN THIS FORMAT -Date en	tered country (dd/mm/yyyy)
	FOLLOWED BY Date departed country (dd,	/mm/yyyy)
		(51-70)
	TT 010 IOL 0D 010 IO	
	IF Q12='2' OR Q12='3 or more' ASK	
Q12B New	Please name the second to last country	y visited outside of
	Zealand?	
	[PRECODE LIST - DO NOT READ]	
	Australia	1
	England	2
	China	3
	United States	4
	Fiji	5
	Samoa	6
	Tonga	7
	New Caledonia	8
	Thailand	9
	Singapore	0
	Vietnam	1
	Philipines	2
	Malaysia	3
	Other (specify)	4
		(8-27)
	Specified Other	
Q12BI	Please state the date that enter	red that country and the

date

	[PLEASE ENTER IN THIS FORMAT -Date entered country (dd/mm/yyyy) FOLLOWED BY Date departed country (dd/mm/yyyy)				
	(28-47)				
	IF Q12='3 or more' ASK				
Q12C	Please name the third last country visited outside of New				
	Zealand?				
	[PRECODE LIST - DO NOT READ]				
	Australia1				
	England2				
	China3				
	United States4				
	Fiji5				
	Samoa6				
	Tonga7				
	New Caledonia8				
	Thailand9				
	Singapore0				
	Vietnam1				
	Philipines2				
	Malaysia3				
	Other (specify) 4				
	(50-69)				
	Specified Other				
Q12CI date	Please state the date that entered that country and the				
	that departed from that country.				
	[PLEASE ENTER IN THIS FORMAT -Date entered country (dd/mm/yyyy)				
	FOLLOWED BY Date departed country (dd/mm/yyyy)				
	(8-27)				
	ASK ALL				
In this	section, we will ask you some questions about any time may				

that departed from that country.

Source Assigned Campylobacteriosis in New Zealand Study (SACNZS)

have

Q13A symptoms of		7 days, h	ave contact with anyo	one with
	gastroenter	itis. By this,	we mean they had diar	rhoea (runny
poos)				
	or stomach p	pain or were vom	iting (throwing up)?	
	Yes			1
	No			2
	Don't know.			3
	IF Q13A='Yes	' ASK		
Q13B	Was this			
-1-	_	_		child or another
	_	_		
-2- relative	Other close	personal contac	t e.g. looking after	a friend or
10140110	outside of	vour home addres	s. Or, at vour works	olace or school.
-3-				
may				
	have touched	d such as a door	handle, crockery, fo	ood, object etc
		-1-	-2-	-3-
0.5		(29)	(30)	(31)
SP		1	1	1
Yes				
No Don't Know		nal contact e.g. with your partner, child or another mate/lodger at your home address. personal contact e.g. looking after a friend or your home address. Or, at your workplace or school. Intact e.g. touching something that the sick person described such as a door handle, crockery, food, object etc -123-		
	ASK ALL			
Now we are	e going to asl	k you some quest	ions about the foods	eat(s).
Q14A	In the last	7 days, e	at any poultry meat,	red meat, offal
	meat product	ts such as deli	meats, sausages or pa	ate (PAT-A?)

	Yes				1	
	No				2	
	Don't Kno	W			3	
	IF Q14A='Y	es' ASK				
Q14B	eat	any?				
	[READ LIS	T]				
-1-	Poultry e	.g. chick	en or turkey	7		
-2-	Beef					
-3-	Lamb/Mutt	on				
-4-	Pork					
-5-		ts besides	sea food e.	g. venison o	r products	
containi						
	more than	one meat		_		_
		-1-	-2-	-3-	-4-	-5-
SP		(33)	(34)	(35)	(36)	(37)
		1	1	1	1	1
		2	2	2	2	2
	IF Q14B(5)	='Yes' ASK				
	What athe	n maata	02+3			
Q14C		r meats	OTHER MEATS	:1		
	O GNOODIN]			, 1		
					MP	
	[+F1txt+]	^0			1	
	[+F2txt+]	^0			2	
	[+F3txt+]	^0			3	
	Other (sp	ecify)			4	
					(40-59)	
	Specified	Other				
	IF Q14B(1)	='Yes' ASK				
	IF Q14B(1)	='Yes' ASK				

We are now going to talk about what poultry have eaten. 015 Was the poultry meat ate in the last seven days, prepared, cooked or eaten at home? [DO NOT READ] Yes.....1 No.....2 IF Q15='Yes' ASK Q16A eat any poultry.. Burgers, patties, meat-balls -1--2-Pieces e.g. legs/wings -3-Kebabs -4-Fillet/strips -5-Mince -6-Serving from a whole chicken/turkey -7-Offal (liver, kidney etc) -8-Nuggets -9-Sausages -10-Deli meat (pre cooked) -11-Pate [PAT-A] -12-Other poultry products -8--9- -10- -11- -12-(70) (71) (72)(73) (74)SP Yes..... 1 1 1 1 1 No..... 2 2 2 2 2 Don't know..... 3 3 3 3 3 *******NEW QUESTION******

Q16B Was the poultry [....]? [READ LIST]

```
-1-
          Burgers, patties, meat-balls
  -2-
          Pieces e.g. legs/wings
  -3-
          Kebabs
  -4-
         Fillet/strips
  -5-
         Mince
  -6-
         Serving from a whole chicken/turkey
  -7-
          Offal (liver, kidney etc)
  -8-
         Nuggets
  -9-
         Sausages
  -10-
         Deli meat (pre cooked)
  -11-
         Pate [PAT-A]
  -12- Other poultry products
                   -8-
                         -9-
                                -10-
                                        -11-
                                               -12-
                   7/9
                         7/10
                                7/11
                                        7/12
                                                7/13
MP
Bought fresh and
used before the
Used by date.....
                   1
                         1
                                 1
                                         1
                                                 1
Previously bought
fresh, the frozen,
then thawed for
this meal..... 2 2
                                 2
                                          2
Bought frozen
then thawed for
this meal.....
                    3
                           3
                                   3
                                          3
                                                  3
Bought cooked,
including take
                   4
                           4
                                   4
                                          4
away.....
                                                  4
Bought some other
                    5
                           5
                                   5
                                          5
                                                  5
way.....
Other (specify)... 6
                           6
                                   6
                                          6
                                                  6
016C
          Did any of the poultry [....] appear pink on the inside when
. . . . .
          ate it?
  -1-
          Burgers, patties, meat-balls
  -2-
         Pieces e.g. legs/wings
  -3-
         Kebabs
  -4-
         Fillet/strips
```

Serving from a whole chicken/turkey

-5-

-6-

Mince

```
-7-
        Offal (liver, kidney etc)
  -8-
       Nuggets
  -9-
        Sausages
  -10-
       Deli meat (pre cooked)
  -11-
       Pate [PAT-A]
  -12- Other poultry products
               -8-
                    -9- -10- -11- -12-
               (75) (76) (77) (78)
                                     (79)
SP
Yes.....
               1
                     1
                           1
                                 1
                                       1
No.....
               2
                     2
                           2
                                 2
                                       2
Don't know.....
               3
                     3
                           3
                                 3
                                       3
```

016D Was the poultry [....] cooked using a... [READ LIST] -1-Burgers, patties, meat-balls Pieces e.g. legs/wings -2--3-Kebabs Fillet/strips -4--5-Mince -6-Serving from a whole chicken/turkey -7-Offal (liver, kidney etc) -8-Nuggets -9-Sausages -10-Deli meat (pre cooked) -11-Pate [PAT-A] -12- Other poultry products -8--9- -10- -11- -12-(14) (15) (16) (17)(18)MP BBQ..... 1 1 1 1 1 Microwave..... 2 2 2 2 2 3 3 3 3 Grill.... 3 Something else.... 4

IF Q14B(1) = 'Yes' ASK

017 eaten any poultry meat or offal that WAS NOT chicken e.g. turkey, duck, goose etc..

4

4

4

4

	Yes	1			
	No2				
	Unsure	3			
	IF Q17='Yes' ASK				
Q17A	What other poultry meat or offal eat?	?			
	[RECORD UP TO THREE OTHER MEATS]				
		MP			
	[+X1txt+]^o	1			
	[+X2txt+]^o	2			
	[+X3txt+]^o				
	Other (specify)	4			
	Cener (Specify)	(22-41)			
	Charified Other	(22-41)			
	Specified Other				
	IF Q17A=('oth1') OR Q17A=('oth2') OR Q17A=('	'oth3') ASK			
Q18B	Was the [%OTXT%]?	Octio / Hor			
Ŏ10D					
	[READ LIST]				
		147			
		MP			
	Bought fresh and used before the Used by da				
	Previously bought fresh, the frozen, then the	nawed			
	for this meal	2			
	Bought frozen then thawed for this meal	3			
	Bought cooked, including take away	4			
	Bought some other way	5			
	Other (specify)	6			
		(43-62)			
	Specified Other				
	-				
Q18C	Did any of the [%OTXT%] appear pink on the	inside when			
ate it?					
	Yes	1			
	No				
	Don't know				
	DOIL C MILOW				

Was the [%OTXT%] cooked using a...

Q18D

[READ LIST]

	MP
	BBQ1
	Microwave2
	Grill3
	something else4
-10	IF Q17A=('oth2') OR Q17A=('oth3') ASK
Q18BI	Was the[%OTXT%]?
	[READ LIST]
	MP
	Bought fresh and used before the Used by date1
	Previously bought fresh, the frozen, then thawed
	for this meal2
	Bought frozen then thawed for this meal3
	Bought cooked, including take away4
	Bought some other way5
	Other (specify) 6
	(8-27)
	Specified Other
	Did any of the [%OTXT%] appear pink on the inside when
ate it?	
	Yes1
	No2
	Don't know3
	Was the [%OTXT%] cooked using a
Q10D1	[READ LIST]
	[KEAD LIST]
	MP
	BBQ1
	Microwave2
	Grill3
	Something else4

IF Q17A=('oth3') ASK

Q18BII	Was the[%OTXT%]?
	[READ LIST]
	MP
	Bought fresh and used before the Used by date1
	Previously bought fresh, the frozen, then thawed
	for this meal2
	Bought frozen then thawed for this meal3
	Bought cooked, including take away4
	Bought some other way5
	Other (specify) 6
	(31-50)
	Specified Other
Q18CII	Did any of the [%OTXT%] appear pink on the inside when
ate it?	
	Yes1
	No2
	Don't know3
Q18DII	Was the [%OTXT%] cooked using a
	[READ LIST]
	MP
	BBQ1
	Microwave2
	Grill3
	Something else4
	ASK ALL
	IF Q14B(1)='Yes' ASK
Q19	eat any poultry meat outside of the home?
	Yes1
	No2

IF Q19='Yes' ASK

Q20	Was it	
	[READ LIST - MULTI-RESPONSE]	
	MP	
	From a fast food/take away place1	
	From a cafe/lunch bar/restaurant	
	At a catered event	
	At a social occasion involving barbecued food4	
	At another social occasion (e.g. dinner at a	
	friends house)5	
	Other (specify) 6	
	(55-74	:)
	Specified Other	
	IF Q14B(2)='Yes' ASK	
we are	now going to talk about what beef products have ea	.ten.
	Was the beef meat ate in the last seven days p	repared,
cooked		
	or eaten at home?	
	Yes1	
	No2	GO TO Q23
	Don't Know3	GO TO Q23
	IF Q21='Yes' ASK	
Q22A	eat any beef	
-1-	Burgers, patties, meat-balls	
-2-	Chops	
-3-	Steak	
-4-	Pieces	
-5-	Mince	

```
-6-
        Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-AY]
  -11- Other beef products
                 -8-
                       -9- -10- -11-
                 (12)
                      (13)
                             (14)
                                    (15)
SP
Yes.....
                 1
                        1
                               1
                                       1
No....
                 2
                         2
                                2
                                       2
Don't know.....
                 3
                        3
                               3
                                       3
******NEW QUESTION*****
Q22B
         Was the beef [....] bought...
         [READ LIST]
         Burgers, patties, meat-balls
  -1-
  -2-
        Chops
  -3-
        Steak
  -4-
        Pieces
  -5-
        Mince
  -6-
        Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-AY]
  -11- Other beef products
                 -8- -9- -10- -11-
                 (23)
                       (24)
                             (25)
                                    (26)
MΡ
                 1
Fresh....
                        1
                               1
                                       1
Frozen....
                 2
                         2
                                2
                                       2
                        3
                                3
                                       3
OR ready cooked...
                 3
        Did any of the beef [....] appear pink on the inside when .....
Q22C
ate
         it?
```

-1-

Burgers, patties, meat-balls

```
-3-
        Steak
  -4-
        Pieces
  -5-
        Mince
  -6-
        Roast
  -7-
       Offal (liver, kidney etc)
  -8-
       Deli meat (pre cooked)
  -9-
       Sausages
  -10-
       Pate [PAT-AY]
  -11- Other beef products
                -8-
                     -9- -10- -11-
                (34)
                     (35) (36)
                                  (37)
SP
Yes....
                1
                       1
                             1
                                     1
                2
                       2
                              2
                                     2
No....
Don't know.....
                3
                       3
                              3
                                     3
Q22D
       Was the beef [....] cooked using a ...
        [READ LIST]
  -1-
        Burgers, patties, meat-balls
  -2-
        Chops
  -3-
        Steak
  -4-
        Pieces
  -5-
       Mince
  -6-
       Roast
  -7-
       Offal (liver, kidney etc)
  -8-
       Deli meat (pre cooked)
  -9-
       Sausages
  -10-
       Pate [PAT-AY]
  -11- Other beef products
                -8-
                      -9-
                            -10-
                                  -11-
                (45) (46) (47) (48)
MΡ
BBQ.....
                1
                       1
                             1
                                    1
Microwave.....
                2
                       2
                              2
                                     2
Grill.....
                3
                       3
                              3
                                     3
Something else....
                4
                       4
                              4
                                     4
```

-2-

Chops

Q23 eat any beef meat outside of the home?

	Yes1	
	No2	
	IF Q23='Yes' ASK	
	Was it	
Q24	[READ LIST - MULTI-RESPONSE]	
	MP	
	From a fast food/take away place1	
	From a cafe/lunch bar/restaurant2	
	At a catered event3	
	At a social occasion involving barbecued food4	
	At another social occasion (e.g. dinner at a	
	friends house)5	
	Other (specify) 6	
	(51-7	0)
	Specified Other	
	ASK ALL	
	ASK ALL	
	IF Q14B(3)='Yes' ASK	
We are eaten.	now going to talk about what Lamb or mutton products	have
Q25	Was the lamb/mutton meat that ate in the last	seven days
~	prepared, cooked or eaten at home?	_
	Yes1	
	No2	GO TO Q27
	Don't Know3	GO TO Q27
	IF Q25='Yes' ASK	

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```
Q26A
         .... eat any Lamb or mutton..
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
         Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-A]
  -11-
        Other lamb/mutton products
                  -8-
                         -9- -10- -11-
                 14/8
                         (9)
                              (10)
                                      (11)
SP
Yes..... 1
                         1
                                1
                                       1
                          2
                                 2
No....
                  2
                                        2
Don't know.....
                  3
                         3
                                3
                                        3
*******NEW OUESTION******
Q26B
         Was the Lamb or mutton [....] bought...
         [READ LIST]
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
         Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
         Sausages
  -10-
         Pate [PAT-A]
  -11-
        Other lamb/mutton products
                  -8-
                        -9- -10- -11-
                  (19) (20)
                              (21)
                                      (22)
```

MP

```
Q26C
         Did any of the Lamb or mutton [\ldots] appear pink on the inside
when
         ..... ate it?
  -1-
        Burgers, patties, meat-balls
  -2-
        Chops
  -3-
        Steak
  -4-
        Pieces
  -5-
        Mince
  -6-
        Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-A]
  -11- Other lamb/mutton products
                 -8-
                       -9- -10-
                                     -11-
                 (30)
                       (31)
                              (32)
                                     (33)
SP
Yes..... 1
                        1
                               1
                                       1
No....
                 2
                         2
                                2
                                       2
Don't know.....
                         3
                 3
                                3
                                       3
```

Q26D Was the Lamb or mutton [....] cooked using a ... [READ LIST] -1-Burgers, patties, meat-balls -2-Chops -3-Steak -4-Pieces -5-Mince -6-Roast -7-Offal (liver, kidney etc)

```
-8- Deli meat (pre cooked)
  -9-
       Sausages
  -10-
       Pate [PAT-A]
  -11- Other lamb/mutton products
               -8-
                    -9- -10- -11-
               (41) (42) (43) (44)
MP
BBQ.....
               1
                     1
                           1
                                 1
                     2
Microwave....
               2
                            2
                                  2
               3
                     3
                            3
                                  3
Grill....
Something else.... 4
                     4
                           4
       ASK ALL
Q27
        .... eat any lamb/mutton outside of the home?
      IF Q27='Yes' ASK
Q28
       Was it ..
        [READ LIST - MULTI-RESPONSE]
        From a fast food/take away place.....1
        From a cafe/lunch bar/restaurant.....2
        At a social occasion involving barbecued food....4
        At another social occasion (e.g. dinner at a
        friends house).....5
        Other (specify)
                                             6
                                           (47 - 66)
        Specified Other
       IF Q14B(4)='Yes' ASK
```

We are now going to talk about what pork products ate.

Q29 Was the pork meat ate on the last seven days prepared, cooked or eaten at home? Yes.....1 Don't Know.....3 GO TO Q31 IF Q29='Yes' ASK Q30A eat any pork.. -1-Burgers, patties, meat-balls -2-Chops -3-Steak -4-Pieces -5-Mince -6-Roast -7-Offal (liver, kidney etc) -8-Deli meat (pre cooked) -9-Sausages -10-Pate [PAT-A] -11-Other pork products -8--9- -10--11-(79) (77)(78) (80) SP 1 1 1 1 Yes..... No.... 2 2 2 2 ******NEW QUESTION***** Q30B Was the pork [....] bought... [READ LIST] -1-Burgers, patties, meat-balls -2-Chops -3-Steak -4-Pieces

```
-6-
         Roast
  -7-
         Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-A]
  -11-
        Other pork products
                 -8- -9- -10- -11-
                 (15) (16) (17) (18)
MP
Fresh.....
                 1
                        1
                               1
                                      1
Frozen.....
                         2
                                2
                                      2
                 2
                               3
                                      3
OR ready cooked...
                 3
                        3
         Did any of the pork [....] appear pink on the inside when .....
Q30C
ate
         it?
         Burgers, patties, meat-balls
  -1-
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-A]
  -11- Other pork products
                 -8- -9- -10- -11-
                 (26) (27) (28) (29)
SP
Yes....
                        1
                               1
                                      1
                 1
No....
                 2
                        2
                                2
                                      2
                                3
                                      3
Don't know.....
                 3
                        3
Q30D
         Was the pork [....] cooked using a...?
```

[READ LIST]

-5-

Mince

```
-1-
        Burgers, patties, meat-balls
  -2-
       Chops
  -3-
       Steak
  -4-
       Pieces
  -5-
       Mince
  -6-
       Roast
  -7-
      Offal (liver, kidney etc)
  -8-
       Deli meat (pre cooked)
  -9-
       Sausages
  -10-
       Pate [PAT-A]
  -11- Other pork products
               -8-
                    -9-
                         -10-
                               -11-
              (37)
                   (38)
                         (39)
                               (40)
MP
              1
                     1
                           1
                                 1
BBQ....
               2
                     2
                           2
                                 2
Microwave.....
                     3
                           3
Grill....
               3
                                 3
Something else?...
               4
                     4
                           4
                                 4
      ASK ALL
Q31
       .... eat any pork outside of the home?
        Yes.....1
        No......2
       IF Q31='Yes' ASK
Q32
       Was it ..
        [READ LIST - MULTI-RESPONSE]
                                            MΡ
        From a fast food/take away place.....1
        From a cafe/lunch bar/restaurant.....2
        At a social occasion involving barbecued food....4
        At another social occasion (e.g. dinner at a
        friends house).....5
        Other (specify)
                                            6
```

	IF Q14A='Yes' ASK
We are have eaten.	now going to talk about what non-poultry offal products may
Q33	eaten any non-poultry offal in the last seven days? By
	we mean kidneys, liver, heart etc
	Yes
SKIPQ40	Don't know
	IF Q33='Yes' ASK
Q34	Was the non-poultry offal bought [READ LIST]
	MP Fresh
Q35	Did the non-poultry offal meat appear pink on the inside when
	ate it?
	Yes
 Q36	Was the non-poultry offal cooked by?

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[READ LIST]

		MP
	BBQ	1
	Microwave	2
	Grill	3
	Something else	4
	cat non-noultry offal outside of	the home?
Q37	eat non-poultry offal outside of	the nome:
	Yes	1
	No	2
	IF Q37='Yes' ASK	
Q38	Was it	
	[READ LIST - MULTI-RESPONSE]	
		MP
	From a fast food/take away place	1
	From a cafe/lunch bar/restaurant	2
	At a catered event	3
	At a social occasion involving barbecu	
	At another social occasion (e.g. dinne	r at a
	friends house)	5
	Other (specify)	6
		(8-27)
	Specified Other	
	ASK ALL	
	ASK ALL	
	ASK ALL	
	TOR THE	
SKIPQ40	CONTINUE	
	IF Q14B(5)='Yes' ASK	

We are now going to talk about the other meat products ate.

```
IF Q14C=('meat1') OR Q14C=('meat2') OR Q14C=('meat3') ASK
Q41I
      Was the %OTXT% ..... ate in the last seven days prepared,
cooked or
       eaten at home?
       Yes.....1
       Q43I
       Don't Know...... GO TO
Q43I
      IF Q41I='Yes' ASK
Q42IA
       ..... eat any %OTXT%..
  -1-
      Burgers, patties, meat-balls
  -2-
       Chops
  -3-
       Steak
  -4-
      Pieces
  -5-
      Mince
  -6-
      Roast
  -7-
      Offal (liver, kidney etc)
  -8-
      Deli meat (pre cooked)
  -9-
      Sausages
  -10-
      Pate [PAT-AY]
  -11- Other products
              -8- -9- -10- -11-
              (38) (39) (40) (41)
SP
Yes..... 1
                  1
                         1
                               1
              2
                    2
                          2
                               2
No....
Don't know.....
              3
                    3
                          3
                               3
*******NEW QUESTION*****
      Was the %OTXT% [....] bought...
Q42IB
       [READ LIST]
```

```
-1-
         Burgers, patties, meat-balls
  -2-
        Chops
  -3-
        Steak
  -4-
        Pieces
  -5-
        Mince
  -6-
        Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
        Pate [PAT-AY]
  -10-
  -11- Other products
                 -8- -9- -10- -11-
                 (49)
                      (50)
                             (51)
                                    (52)
MΡ
Fresh.....
                 1
                        1
                               1
                                       1
                 2
                        2
                                2
                                       2
Frozen....
                 3
                        3
                                3
                                       3
OR ready cooked...
Q42IC
        Did any of the %OTXT% .... appear pink on the inside when .....
ate
         it?
  -1-
        Burgers, patties, meat-balls
  -2-
        Chops
  -3-
        Steak
  -4-
        Pieces
  -5-
        Mince
  -6-
        Roast
        Offal (liver, kidney etc)
  -7-
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-AY]
  -11- Other products
                 -8- -9- -10- -11-
                 (60)
                       (61)
                             (62)
                                    (63)
SP
                        1
                                1
                                       1
Yes....
                 1
                 2
                         2
                                2
                                       2
No....
                        3
                                3
                                       3
Don't know.....
                 3
```

Q42ID Was the %OTXT% cooked using a ...

[READ LIST]

```
-1-
       Burgers, patties, meat-balls
  -2-
       Chops
  -3-
       Steak
  -4-
       Pieces
  -5-
      Mince
  -6-
       Roast
  -7-
      Offal (liver, kidney etc)
  -8-
      Deli meat (pre cooked)
  -9-
      Sausages
  -10-
      Pate [PAT-AY]
  -11-
      Other products
              -8-
                   -9- -10-
                              -11-
              (71) (72) (73)
                              (74)
MP
BBQ..... 1
                    1
                          1
                    2
                          2
                                2
Microwave.....
              2
Grill....
              3
                    3
Something else....
              4
                    4
                          4
                               4
      ASK ALL
Q43I
       .... eat any %OTXT% outside of the home?
       Yes.....1
       No......2
      IF Q43I='Yes' ASK
Q44I
      Was it ..
        [READ LIST - MULTI-RESPONSE]
                                          MP
       From a fast food/take away place.....1
       From a cafe/lunch bar/restaurant.....2
       At a social occasion involving barbecued food....4
       At another social occasion (e.g. dinner at a
       friends house).....5
```

```
IF Q14C=('meat2') OR Q14C=('meat3') ASK
041II
       Was the %OTXT% ..... ate in the last seven days prepared,
cooked or
       eaten at home?
       Yes.....1
       Q43II
       Don't Know...... GO TO
Q43II
      IF Q41II='Yes' ASK
Q42IIA ..... eat any %OTXT%..
  -1-
       Burgers, patties, meat-balls
  -2-
       Chops
  -3-
       Steak
  -4-
      Pieces
  -5-
      Mince
  -6-
      Roast
  -7-
      Offal (liver, kidney etc)
  -8-
      Deli meat (pre cooked)
  -9-
      Sausages
  -10-
       Pate [PAT-AY]
  -11- Other products
              -8-
                   -9- -10- -11-
              (38) (39) (40)
                              (41)
SP
Yes..... 1
                   1
                         1
                               1
                    2
                          2
              2
                                2
No....
Don't know.....
              3
                   3
                         3
                                3
******* QUESTION ******
```

```
Q42IIB Was the %OTXT% [....] bought...
         [READ LIST]
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
        Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-AY]
  -11- Other products
                 -8- -9- -10- -11-
                 (49) (50) (51) (52)
MP
                        1
Fresh.....
                               1
                                      1
                 1
Frozen....
                                      2
                        2
                               2
                               3
                                      3
OR ready cooked...
                 3
                        3
Q42IIC Did any of the %OTXT% .... appear pink on the inside when .....
ate
         it?
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
        Mince
  -6-
        Roast
  -7-
        Offal (liver, kidney etc)
  -8-
        Deli meat (pre cooked)
  -9-
        Sausages
  -10-
        Pate [PAT-AY]
  -11- Other products
                 -8- -9- -10- -11-
                 (60) (61) (62) (63)
SP
Yes....
                 1
                        1
                              1
                                      1
No....
                 2
                        2
                               2
Don't know.....
                        3
                               3
                                      3
                 3
```

			coo	ked usin	g a		
L	READ LIS	5T]					
-1- B	urgers,	pattie	s, meat-	balls			
-2- C	hops						
-3- S	teak						
-4- F	ieces						
-5- M	ince						
-6- R	oast						
-7- C	ffal (l:	iver, k	idney et	.c)			
-8- D	eli meat	(pre	cooked)				
-9- S	ausages						
-10- P	ate [PA	r-AY]					
-11- C	ther pro	oducts					
		-8-	-9-	-10-	-11-		
		(71)	(72)	(73)	(74)		
MP							
BBQ		1	1	1	1		
Microwave		2	2	2	2		
Grill		3	3	3	3		
Something el	se	4	4	4	4		
7.0	K ALL						
AC	IV ALL						
Q43II .	eat	any %	OTXT% ou	ıtside of	the home?	?	
Y	es					1	
N	0					2	
	Q43II=	IVasi A	QK				
11	Q1311	105 7	.orc				
Q44II W	as it .	•					
[READ LIS	ST - MU	LTI-RESP	ONSE]			
						MP	
F	rom a fa	ast foo	d/take a	way plac	e	1	
F	rom a ca	afe/lun	ch bar/r	estauran	t	2	
	IOM a co	120, 2011	011 2041, 1	cocaaran		• • • • • • • • • • •	

```
At a social occasion involving barbecued food....4
       At another social occasion (e.g. dinner at a
       friends house)......5
       Other (specify)
                                        (8-27)
       Specified Other
      IF Q14C=('meat3') ASK
      Was the %OTXT% ..... ate in the last seven days prepared,
Q41III
cooked or
       eaten at home?
       Yes.....1
       Q43III
       Q43III
      IF Q41III='Yes' ASK
Q42IIIA
      ..... eat any %OTXT%..
  -1-
       Burgers, patties, meat-balls
  -2-
       Chops
  -3-
       Steak
  -4-
       Pieces
  -5-
      Mince
  -6-
      Roast
  -7-
      Offal (liver, kidney etc)
  -8-
      Deli meat (pre cooked)
  -9-
      Sausages
  -10-
      Pate [PAT-AY]
  -11-
      Other products
              -8- -9- -10- -11-
             (38) (39)
                        (40)
                             (41)
SP
Yes....
              1
                   1
                         1
                              1
                    2
                         2
No....
              2
                               2
Don't know.....
              3
                    3
                         3
                               3
```

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```
Q42IIIB Was the %OTXT% [....] bought...
          [READ LIST]
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
         Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
         Sausages
  -10-
         Pate [PAT-AY]
  -11- Other products
                   -8-
                         -9-
                                -10-
                                        -11-
                  (49)
                        (50)
                                (51)
                                       (52)
MP
Fresh.....
                   1
                          1
                                  1
                                          1
Frozen.....
                   2
                           2
                                  2
                                          2
OR ready cooked...
                  3
                           3
                                  3
                                          3
Q42IIIC
        Did any of the %OTXT% .... appear pink on the inside when .....
ate
          it?
  -1-
         Burgers, patties, meat-balls
  -2-
         Chops
  -3-
         Steak
  -4-
         Pieces
  -5-
         Mince
  -6-
         Roast
  -7-
         Offal (liver, kidney etc)
  -8-
         Deli meat (pre cooked)
  -9-
         Sausages
  -10-
         Pate [PAT-AY]
  -11- Other products
                   -8-
                         -9-
                                -10-
                                        -11-
                  (60)
                         (61)
                                (62)
                                        (63)
SP
Yes.....
                           1
                                  1
                                          1
```

```
No..... 2 2 2 2
Don't know.....
               3
                    3
                          3
Q42IIID Was the %OTXT% .... cooked using a ...
       [READ LIST]
       Burgers, patties, meat-balls
  -1-
  -2-
       Chops
  -3-
       Steak
  -4-
       Pieces
  -5-
       Mince
  -6-
      Roast
  -7-
       Offal (liver, kidney etc)
  -8-
      Deli meat (pre cooked)
  -9-
       Sausages
  -10-
      Pate [PAT-AY]
  -11- Other products
               -8- -9- -10- -11-
              (71) (72) (73) (74)
MP
BBO.... 1
                   1
                          1
                                1
Microwave....
               2
                     2
Grill.....
               3
                     3
                           3
                                3
Something else.... 4 4
  ASK ALL
Q43III .... eat any %OTXT% outside of the home?
        Yes.....1
       IF Q43III='Yes' ASK
       Was it ..
Q44III
        [READ LIST - MULTI-RESPONSE]
                                           MP
        From a fast food/take away place.....1
```

	from a ca	are/lunch	par/resta	aurant		2	
	At a cate	ered event				3	
	At a soci	ial occasi	on involv	ving barbect	ued food	4	
	At anothe	er social	occasion	(e.g. dinne	er at a		
	friends h	nouse)				5	
	Other (sp	pecify)				6	
						(8-27)	
	Specified	d Other					
	ASK ALL						
 Now we are	going to	ask some	questions	s about how	han	dle food.	
Q51A	In the last seven days, did anyone in your household handle raw poultry meat or other raw meat. This includes raw pet food)?						
	No, no or	ne in my h	ousehold	handled an	y raw meat	2	
	IF Q51A='\	Yes' ASK					
 Q51B meat in	Which of	the follo	wing stat	tements app	lies to wh	o handled r	aw
apply.	your hous	sehold in	the last	seven days	? More th	an one may	
-1-	har	ndle raw p	oultry me	eat?			
-2-	har	ndle other	raw meat	:?			
-3-	har	ndle raw p	et food?				
-4-	Did some	one else i	n the hor	me handle ra	aw poultry	meat?	
-5-	Did some	one else i	n the hor	me handle of	ther raw m	eat(s)?	
-6-	Did some	one else i	n the hor	me handle ra	aw pet foo	d?	
6 –		-1-	-2-	-3-	-4-	-5-	-
6-		(20)	(20)	/21\	(22)	(22)	
(34) SP		(29)	(30)	(31)	(32)	(33)	
	es	1	1	1	1	1	1
Yes, Applies			2	2	2	2	2

Q52I have	In the last	seven days, did	d handle any it	ems that may			
raw	been in con	tact with raw po	oultry meat or other	meat (including			
law	pet food) b	efore it was coo	oked such as knives,	chopping boards,			
	plates or d	ish cloths?					
	Yes			1			
	No	• • • • • • • • • • • • • • • • • • • •		2			
	Don't know.			3			
	IF Q52I='Yes	' ASK					
 Q52	Which of th	e following did	1150				
Q32	Which of the following did use [READ LIST - MULTI RESPONSE]						
		TIODIT TEST ONS	-1				
				MP			
	Knives			1			
	Chopping bo	ards		2			
	Dish cloths			3			
	Plates/dish	es		4			
	None of the	se		5			
	ASK ALL						
	ASK ALL						
The next	few questions	are also about	the food eat(s).			
 Q53 as	In the last	7 days, did	eat any other unc	ooked foods such			
	salad, vege	tables, fruit					
-1-	As part of	a chicken meal (or snack				
-2-	As part of	a meat meal/ sna	ack				
-3-	As part of	a meal/snack tha	at did not contain me	at			
		-1-	-2-	-3-			
		(37)	(38)	(39)			

SP

Yes		1	1	1				
No / DK.		2	2	2				
	IF Q53(1)='Ye	es' ASK						
254	Was ch	nicken meal or s	nack, which included	A other uncooker				
204	foods, prepa		nack, which included	other uncooked				
	[READ LIST]							
				MP				
	Home			1				
	Fast food /	takeaway place.		2				
	Cafe/lunch b	par/restaurant		3				
	A catered ev	rent		4				
	Social occasion, involving barbecued food5							
	Other social occasion (e.g. dinner at friend.s							
	house)	_		6				
	Other (speci	fy)		7				
				(41-60)				
	Specified Ot	her						
	IF Q53(2)='Ye	es' ASK						
Q55 foods,	Was me	at meal or snac	k, which included ot	her uncooked				
	prepared at							
	[READ LIST}							
				MP				
	Home			1				
	Fast food /	takeaway place.		2				
	Cafe/lunch bar/restaurant3							
	A catered event4							
	Social occasion, involving barbecued food5							
		_	dinner at friend.s					
		_		6				
	Other (speci			7				
	Concr (Speci	1/		(8-27)				
	Specified Ot	- h		(0 21)				

for [1] He Fr Cr A So Or	oods, prepared to	takeaway place	barbecued food	MP 1 2 3	uncook
Ho Fa Ca A So O	ome ast food / afe/lunch & catered evocial occasther social	takeaway place bar/restaurant.	barbecued food	1234	
He Fo	omeast food / afe/lunch & catered evocial occasther social	takeaway place bar/restaurant.	barbecued food	1234	
For A So On the Annual Control of the Annual	ast food / afe/lunch } catered evocial occas ther social	takeaway place bar/restaurant.	barbecued food	1234	
For Control of the Co	ast food / afe/lunch } catered evocial occas ther social	takeaway place bar/restaurant.	barbecued food	2	
Ca A Se O	afe/lunch a catered exocial occasther social	oar/restaurant.ventventventventvent	barbecued food	3	
A So O	catered evocial occas	ventsion, involving	barbecued food	4	
So O ho	ocial occas	sion, involving	barbecued food		
O [.]	ther social			• • • • •	
ho		1 0000051011 (e.g.		S	
	0000,				
	ther (spec:			7	
	, . <u>,</u>	1,		(29-48)	
Si	pecified Ot	ther		(====,	
meals we outside the		-	a please tell me how	_	
[: packed	IF REQUIRE	D - Prepared mea	als or part of meal	brought f	ully
o: would	r frozen fi	rom a supermarke	et or other shop and	d then re-	heated
be	e classifie	ed as a home mea	al]		
		Dinner	Lunch	Br	eakfas
		(49)	(50)		(51)
0 TO 7	• • • • •				
Don't know		Υ			Y

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		efore eating	e not cooked or or drinking the	heat treated tem?	o seventy			
	No			2				
	IF Q58='Yes	s' ASK						
Q59A	Did	eat or drink	any .					
-1-	Unpasteuri	ised milk						
-2-	Unpasteurised yoghurt							
-3-	Unpasteurised cheese							
-4-	Other unpa	unpasteurised milk products						
		-1-	-2-	-3-	-4-			
		(74)	20/75	20/76	20/77			
SP								
Yes		1	1	1	1			
No		2	2	2	2			
Other (spe	ecify)	3	3	3	3			
*******NEW	QUESTION*	****						
 Q59B	What was t	the brand of	the					
	?							
-1-	Unpasteuri	ised milk						
-2-	Unpasteurised yoghurt							
-3-	Unpasteurised cheese							
-4-		Other unpasteurised milk products						
		-1-	-2-	-3-	-4-			
		(28-47)	(48-67)	23/8-27	(28-47)			

```
059C
         Where did ..... obtain the ....?
  -1-
         Unpasteurised milk
  -2-
        Unpasteurised yoghurt
  -3-
        Unpasteurised cheese
  -4-
        Other unpasteurised milk products
                    -1-
                                            -3-
                               -2-
                                                         -4-
                  (48-67) 24/8-27
                                           (28-47)
                                                       (48-67)
       ASK ALL
We now have a couple of questions about food preparation.
Q60
         Does your kitchen have separate chopping boards for..
         . . . .
  -1- Raw poultry
  -2-
        Other raw meats
  -3-
        All raw meats and poultry
  -4- Other foods such as vegetables, fruit and cooked food
                    -1-
                               -2-
                                            -3-
                                                          -4-
                    (68) (69)
                                      (70)
                                                         (71)
SP
                   1
Yes.....
                                 1
                                             1
                                                           1
No.....
                    2
                                 2
                                             2
                                                           2
Don't Know.....
                    3
                                 3
                                             3
                                                           3
       IF Q60(1) = 'No' OR Q60(1) = 'Don''t
know' OR Q60(2)='No' OR Q60(2)='Don''t know' OR Q60(3)='No' OR
Q60(3) = 'Don''t
know' OR Q60(4)='No' OR Q60(4)='Don''t know' ASK
```

Q61 Do you wash the board/s between use for raw meat and other foods

[DO NOT READ]

	Yes	• • • • • • • • • • • • • • • • • • • •	1			
	No		2	GO TO		
SKIPQ63	Don!+ Know		3	GO TO		
SKIPQ63	DOII C KIIOW			GO 10		
	ASK ALL					
Q62Z	How do you	wash your boards?				
	[MULTIPLE	RESPONSE - DO NOT	READ PRECODE LIST			
	Wipe them	with a damp cloth.	1			
	Rinse them	with clean water.	2			
	Wash them	with detergent and	l hot water3			
	Put them t	hrough dishwasher	cycle4			
	Other (spe	cify)	5			
			(8-27)		
	Specified	Other				
 263 sink	which of the following foods would you usually rinse in the					
	before coo	king e.g. under a	running tap? Would you r	inse		
		Raw Chicken	Raw Meat			
		25/28	(29)			
SP						
Yes	• • • • • • • • •	1	1			
No	• • • • • • • • • • • • • • • • • • • •	2	2			
Don't eve	r cook it	3	3			
 We are no	w going to a	sk some questions	about contact with	animals.		
We are no			about contact with			
	had		act with your own or othe			
	had animals in	any physical conta the last seven da	act with your own or othe	r people'		

	afterwards, touching things that the animals have used,.]						
	No					2	
	IF Q64='Y	es' ASK					
Q65A	What ani	mals	. had cont	act with?	Were they.	• • •	
-1- birds	Pets - d	ogs (incl	uding work	ing dogs),	puppies,	cats, kitt	ens or
-2-	Chicken	or other	poultry				
-3-	Pigs/swi:	ne					
-4-	Cattle (cows)					
-5-	Sheep						
-6-	Other an	imals					
		-1-	-2-	-3-	-4-	-5-	_
6-							
		(32)	(33)	(34)	(35)	(36)	
(37) S	P						
Yes		1	1	1	1	1	1
No		2	2	2	2	2	2
Don't kn	OW	3	3	3	3	3	3
	IF Q65A(1)='Yes' A	SK				
kittens	or birds'						
******N	EW QUESTION	****					
	IF Q65A(6)='Yes' A	SK				
 Q65ОТН	Please s	pecify ot	her animal	S	(38-57)	
	ASK ALL						
Q65B another	Were the	at	your home	or at anot	ther location	on? If at	

location, where were they?

```
-1-
         Pets - dogs (including working dogs), puppies, cats, kittens or
birds
  -2-
        Chicken or other poultry
  -3-
        Pigs/swine
  -4-
        Cattle (cows)
  -5-
        Sheep
  -6- Other animals
                  -1-
                          -2-
                                   -3-
                                           -4-
                                                    -5-
6-
                  (58)
                          25/59 25/60
                                           25/61
                                                    25/62
25/63 SP
At home.....
                  1
                           1
                                    1
                                             1
                                                     1
                                                              1
                           2
                                     2
                                             2
                                                      2
                                                               2
Other (specify)...
                  2
         Were the .... sick?
Q65C
  -1-
         Pets - dogs (including working dogs), puppies, cats, kittens or
birds
  -2-
        Chicken or other poultry
  -3-
        Pigs/swine
  -4-
        Cattle (cows)
  -5-
        Sheep
  -6-
        Other animals
                          -2- -3-
                  -1-
                                           -4-
                                                    -5-
6-
                         (69)
                  (68)
                                   (70) \qquad (71)
                                                   (72)
(73) SP
                                             1
Yes....
                  1
                           1
                                     1
                                                      1
                                                              1
                            2
                                     2
                                             2
                                                      2
                                                               2
No.....
                  2
Q65D
        What type of illness did the [....] have?
  -1-
        Pets - dogs (including working dogs), puppies, cats, kittens or
birds
  -2-
        Chicken or other poultry
  -3-
        Pigs/swine
  -4-
        Cattle (cows)
  -5-
        Sheep
  -6-
        Other animals
                          -2- -3-
                                           -4-
                                                     -5-
                  -1-
6-
```

```
28/8-27 (28-47) (48-67) 29/8-27 (28-47) (48-
67)
065E
        Was the contact with the [....] occupational? (part of .....
job)
        Pets - dogs (including working dogs), puppies, cats, kittens or
  -1-
birds
  -2-
       Chicken or other poultry
  -3-
        Pigs/swine
  -4-
       Cattle (cows)
  -5-
        Sheep
  -6-
       Other animals
                        -2- -3-
                 -1-
                                        -4-
                                                 -5-
6-
                                (70)
                 (68)
                      (69)
                                        (71)
                                                (72)
(73) SP
                                 1
Yes..... 1
                         1
                                          1
                                                  1
                                                           1
                          2
                                  2
                                           2
                                                           2
No....
                                                   2
                 2
Q66 How long .... been working with or in physical contact with.
         . . . .
  -1-
        Pets - dogs (including working dogs), puppies, cats, kittens or
birds
  -2-
       Chicken or other poultry
  -3-
       Pigs/swine
  -4-
       Cattle (cows)
  -5-
        Sheep
  -6- Other animals
                 -1-
                         -2-
                                -3-
                                         -4-
                                                 -5-
6-
                 (74)
                     (75) (76) (77)
                                                (78)
(79) SP
Less than 1 month.
                 1
                         1
                                  1
                                          1
                                                  1
                                                          1
2-3 months.....
                          2
                                  2
                                          2
                                                  2
                                                           2
                 2
4-12 months.....
                 3
                          3
                                  3
                                          3
                                                  3
                                                          3
                          4
                                  4
                                          4
                                                  4
                                                          4
Over 1 year.....
                 4
SKIPNEXT CONTINUE
```

	_				
These	questions are about water supply and consumption.				
	-				
Q67Z home?	Which of the following are sources of water supply to				
	[READ LIST]				
	MP				
	A) Town supply1				
	B)Private bore / spring water2				
	C) Tanker truck water3				
	D)Roof / rain water4				
	E)Creek / stream water5				
	F) Don't know6				
	Other (specify) 7				
	(29-48)				
	Specified Other				
	IF Q67Z=' <b)private bore="" spring="" water="">' ASK</b)private>				
 Q68A	Do you know if the private bore / spring water is treated or				
	filtered?				
	Yes1				
	No2				
	Don't know3				
	- IF Q68A='Yes' ASK				
Q68B	Is the private bore or spring water				
	[READ LIST - MULTI-RESPONSE]				
	MP				
	Chlorinated1				
	Boiled2				
	Treated with UV				
	Treated but not sure how4				
	Filtered5				

	Don't know6
	ASK ALL IF Q67Z=' <c) tanker="" truck="" water="">' ASK</c)>
Q69A	Do you know if the tanker / truck water is treated or filtered?
	Yes
	IF Q69A='Yes' ASK
 Q69B	Is the tanker/truck water [READ LIST - MULTI-RESPONSE]
	MP Chlorinated
	ASK ALL IF Q67Z=' <d)roof rain="" water="">' ASK</d)roof>
 Q70A	Do you know if the roof / rain water is treated or filtered?
	Yes
	IF Q70A='Yes' ASK
	Is the roof / /rain water

[READ LIST - MULTI-RESPONSE]

	MP
	Chlorinated1
	Boiled2
	Treated with UV3
	Treated but not sure how4
	Filtered5
	Don't know6
	ASK ALL
	IF Q67Z=' <e)creek stream="" water="">' ASK</e)creek>
Q71A	Do you know if the creek / stream water is treated or filtered?
	Yes1
	No2
	Don't know3
	IF Q71A='Yes' ASK
 Q71B	Is the creek / stream water
	[READ LIST - MULTI-RESPONSE]
	MP
	Chlorinated1
	Boiled2
	Treated with UV3
	Treated but not sure how4
	Filtered5
	Don't know6
	ASK ALL
	IF Q67Z=7 ASK
 072a	Do you know if the other main source of drinking water is
z,zn treated	
	filtered?

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	res	
	No2	
	Don't know3	
	IF Q71A='Yes' ASK	
	~	
		_
Q72B	Is the other main source of drinking water	
	[READ LIST - MULTI-RESPONSE]	
	- MP	
	Chlorinated1	
	Boiled	
	Treated with UV	
	Treated but not sure how4	
	Filtered5	
	Don't know6	
		_
	ASK ALL	
		_
Q73Z	Which of the following is the main source of water supply to	
	work/ preschool/school?	
	[READ LIST]	
	MP	
	A) Town supply1	
	B)Private bore / spring water2	
	C) Tanker truck water	
	D)Roof / rain water4	
	E)Creek / stream water5	
	F)Other main source of drinking water6	
	G) Don't know7	
	Other (specify) 8	
	(50-69)	
	Specified Other	
		_
	<pre>IF Q73Z='<b)private bore="" spring="" water="">' ASK</b)private></pre>	
		_
Q74A	Do you know if the private bore / spring water is treated or filtered?	

	Yes
	No2
	Don't know3
	IF Q68A='Yes' ASK
Q74B	Is the private bore or spring water
	[READ LIST - MULTI-RESPONSE]
	MP
	Chlorinated1
	Boiled2
	Treated with UV3
	Treated but not sure how4
	Filtered5
	Don't know6
	ASK ALL
	IF Q73Z=' <c)tanker truck="" water="">' ASK</c)tanker>
	IF Q752- CC/Tanker Cruck water/ ASK
 Q75A	Do you know if the tanker / truck water is treated or filtered?
	Yes1
	No2
	Don't know3
	IF Q74A='Yes' ASK
	Is the tanker/truck water
Q / JB	
	[READ LIST - MUTLI-RESPONSE]
	MP
	Chlorinated1
	Boiled2
	Treated with UV3
	Treated but not sure how4
	Filtered5

	Don't know6
	ASK ALL IF Q73Z=' <d)roof rain="" water="">' ASK</d)roof>
 Q76A	Do you know if the roof / rain water is treated or filtered?
	Yes
	IF Q76A='Yes' ASK
Q76B	Is the roof / /rain water [READ LIST - MULTI-RESPONSE]
	MP Chlorinated
	ASK ALL IF Q73Z=' <e)creek stream="" water="">' ASK</e)creek>
Q77A	Do you know if the creek / stream water is treated or filtered?
	Yes
	IF Q77A='Yes' ASK
 Q77B	Is the creek / stream water

[READ LIST - MULTI-RESPONSE]

	ľ	MP
	Chlorinated	1
	Boiled	2
	Treated with UV	3
	Treated but not sure how	4
	Filtered	5
	Don't know	6
	ASK ALL	
	IF Q73Z=8 ASK	
Q78A treated or	Do you know if the other main source of drinking t	water is
	filtered?	
	Yes	1
	No	2
	Don't know	3
	IF Q78A='Yes' ASK	
 Q78B	Is the other main source of drinking water	
	[READ LIST - MULTI-RESPONSE]	
	ľ	MP
	Chlorinated	1
	Boiled	2
	Treated with UV	3
	Treated but not sure how	4
	Filtered	5
	Don't know	6
	ASK ALL	
 079	In the last 7 days did was bettled water for	or drinking?
Q13	In the last 7 days, did use bottled water for	or armiking;

	Yes
	IF Q79='Yes' ASK
Q80	Was bottled water the only drinking water source?
	Yes
	ASK ALL
Q81	In the last 7 days, did drink any water from untreated supplies that would not normally drink from? We mean
	of your home, work or school. For example, at a bach or on a camping trip.
	Yes
	IF Q81='Yes' ASK
Q82	Were these untreated water supplies? [READ LIST]
	MP A) Town supply
	E)Creek / stream water5 G)Don't know6

These las participa	t few questions are about activities that may have ted
in.	
Q83 swimming	participated in any activity at an indoor or outdoor
	pool or spa, in the last seven days?
	Yes1
	No2
	Don't know3
	IF Q83='Yes' ASK
	-
Q84	Was the pool or spa
	MP
	A)A public swimming pool /spa1
	B)A home swimming pool / spa2
	C) Another pool / spa e.g. hotel, motel, school3
 Q85	What are the names and locations of the pools and spas
visited?	
	(If more than one, please describe each)
	(8-27)
	ASK ALL
Q86A in the	participated in any of the following outdoor activities
	last 7 days?
	[IF REQUIRED EXPLAIN - swimming includes playing, paddling and
	splashing around]

- -1-Outdoor freshwater swimming, including rivers and lakes
- -2-Outdoor sea water swimming
- Other water activities e.g. sailing, kayaking, fishing -3-

	-1-	-2-	-3-
	(29)	(30)	(31)
SP			
Yes	1	1	1
No	2	2	2
Don't know	3	3	3

Q86B Was the [....] after heavy rainfall?

- -1-Outdoor freshwater swimming, including rivers and lakes
- -2-Outdoor sea water swimming
- Other water activities e.g. sailing, kayaking, fishing -3-

	-1-	-2-	-3-
	(32)	(33)	(34)
SP			
Yes	1	1	1
No	2	2	2

- 086C When participated in [....] Were there livestock such as sheep, cattle or other farm animals in the area?
 - -1-Outdoor freshwater swimming, including rivers and lakes
 - -2-Outdoor sea water swimming
 - Other water activities e.g. sailing, kayaking, fishing -3-

	-1-	-2-	-3-
	(35)	(36)	(37)
SP			
Yes	1	1	1
No	2	2	2

Q86D What was the type, location and name of the $[\ldots]$ site. (*) See

Interviewer note below.

[NOTE - For outdoor fresh or sea water .swimming. establish whether

the site was a public pool, private pool, sea, river or lake]

lake]	[NOTE - Fo	or fishing,	establish	whether site	was sea,	river or
rave]	[NI○TE = Ec	or other wa	tor activit	ies e.g. kay	zakina / sa	ilina
				., sea, river		TTTIIG,
	escabilish	whether 31	te was poor	., sea, livel	or rake,	
-1-	Outdoor fr	reshwater s	wimming, in	cluding rive	ers and lak	es
-2-	Outdoor se	ea water sw	imming			
-3-	Other wate	er activiti	es e.g. sai	ling, kayaki	ng, fishin	g
		-1-		-2-		-3-
		(38-57)	(58-77)		32/8-27
	IF Q86A(3)=	='Yes' ASK				
Q87		oned that .	partic	cipated in ot	her water	
activities		+1				
	wnat were	these acti	vities?			
					(20 47)	
					(28-47)	
	ASK ALL					
Q88A	In the las	st 7 days,	have	touched, wit	h ha	nds, any
of the						
	following	substances				
1						
-1-	Coil					
	Soil		lo o o o lo V			
-2-	Sand (e.g.	. sand box,				
-2- -3-	Sand (e.g. Human poo	(example f	rom changin			
-2- -3- -4-	Sand (e.g. Human poo Sewage, st	(example f	rom changin	l water		
-2- -3-	Sand (e.g. Human poo Sewage, st	(example fagnant wat	rom changin er or flood ncluding pe	l water et faeces	4	-
-2- -3- -4-	Sand (e.g. Human poo Sewage, st	(example f tagnant wat compost, i -1-	rom changing er or flood ncluding per -2-	l water et faeces -3-	-4- (52)	-5- (52)
-2- -3- -4- -5-	Sand (e.g. Human poo Sewage, st	(example fagnant wat	rom changin er or flood ncluding pe	l water et faeces	-4- (52)	-5- (53)
-2- -3- -4- -5-	Sand (e.g. Human poo Sewage, st Manure or	(example fagnant wat compost, i -1- (49)	rom changing er or flood ncluding per -2- (50)	water et faeces -3- (51)	(52)	(53)
-2- -3- -4- -5- SP Yes	Sand (e.g. Human poo Sewage, st Manure or	(example fragnant wat compost, i -1- (49)	rom changiner or flood ncluding pe -2- (50)	l water et faeces -3- (51)	(52) 1	(53) 1
-2- -3- -4- -5-	Sand (e.g. Human poo Sewage, st Manure or	(example fagnant wat compost, i -1- (49)	rom changing er or flood ncluding per -2- (50)	water et faeces -3- (51)	(52)	(53)

Q88B	How and where did the contact happen with the ?
	[Note to Interviewer - Establish under what circumstance the
contact	
	occurred.
	For example, contact with sand could have occurred while at
the	
	seaside or from a private or public sandpit. Contact with soil
could	
	have occurred while gardening.]
-1-	Soil
-2-	Sand (e.g. sand box, beach)
-3-	Human poo (example from changing nappies)
-4-	Sewage, stagnant water or flood water
-5-	Manure or compost, including pet faeces
	-12345-
	(54-73) 33/8-27 (28-47) (48-67) 34/8-
27	
• • • • • • • • • • • • • • • • • • • •	
	During the last 7 days, were flies a problem in your kitchen or
food	
	preparation area?
	Yes1
	No2
	Don't know3

We have reached the end on the survey. On behalf of ESR I would like to thank $\,$

you for taking part in this important study. If you have any questions or concerns you can contact Dr Rob Lake at ESR on 03-3516019 or email rob.lake(at)esr.cri.nz

My name is %INAME% and if you have any queries about this survey you can ring

my supervisor Pania Brown on (09)-373-8711.

[*CO:*]

Source Assigned Campylobacteriosis in New Zealand Study (SACNZS)

APPENDIX F: MULTIVARIATE ANALYSIS DETAILS

Multivariate analysis

The aim of the multivariate analysis is to determine which risk factors or combination of multiple risk factors are of most importance on the outcome (i.e. being a case or not). Multiple statistical techniques were used to determine which risk factors were of most importance, in order to guide which variables should be included in the multivariate models. The variables inserted into the final multivariate models were also guided by expert knowledge of the epidemiology of campylobacteriosis. To determine the most appropriate multivariate model we compare the AIC and residual deviance of several multivariate models built.

The statistical techniques used in this analysis, to determine risk factors of importance, include step-wise logistic regression, LASSO and random forests. These techniques are described below, along with their results.

Step-wise logistic regression

Step-wise regression is an approach for determining the 'best' model by the addition or removal of variables from the base model, resulting in a reduction in the AIC. The AIC provides an estimate of the models quality based on both the goodness of fit of the model and its simplicity. Generally, the resulting model only contains variables which have a significant effect (at the 5% level) on the response (i.e. being a case or control).

The step-wise procedure begins with an initial model, normally either the full saturated model containing all covariates or the null model containing no covariates, for simplicity. Covariates are then removed or added and the AIC recalculated. If the removal or addition of certain covariates results in a reduction of the AIC then that model becomes the current model and the procedure of removal or addition of other covariates and re-calculation of the AIC is repeated. When there is very little to no change in the AIC, the model provided is considered 'best'. However, it must be kept in mind that not all models are explored as this is not practically possible, especially when the number of covariates is large. For this dataset there are 275 covariates to explore, meaning the total number of models to be checked, if all were checked, is $2^{275} = 6.1 \times 10^{82}$. Therefore, it is possible that the model selected as the best may not actually be the best choice of model.

The step-wise regression technique is easy to implement, interpret and understand, but suffers from several disadvantages. Firstly, a logistic regression (also known as a logit) model requires no missing data for the variables inserted into the model. If there is missing data, then the model simply omits the individual from the dataset (which reduces the degrees of freedom available). If there is a large amount of missing data then this approach will discard a large amount of information. Ideally before implementing a logistic regression model one should remove any covariates that are highly correlated with one another. This is because having multiple variables which are highly correlated with one another in the model can cause inflated coefficients (thus inflated odds ratios). In practice, when the dataset is large, removing all highly correlated covariates can be difficult. Thus, any results achieved using the step-wise regression technique on this data set must be interpreted with caution due to multicollinearity.

There is also the problem that some of the questions perfectly separate the cases from controls (i.e. all cases may answer yes whereas all the controls may answer no). This is indicated by the large number (25) of Fisher Scoring iterations. We would expect this value

to be less than 10 in the case of little separation. Separation results in incorrect estimates of the coefficients and large standard errors which produce large p-values close to 1. This approach should only be used as a guide as to which variables may be important and will be compared with other modeling techniques and expert advice regarding campylobacteriosis.

Before carrying out the step-wise procedure those questions from the survey which had more than 25% of the data missing were omitted. Questions where only a single answer was provided (e.g. everyone answered 'no' to the question and no one answered 'yes') were also removed. For the remaining 275 questions, observations which had missing data were omitted. This left a dataset which had 365 observations, 175 cases and 314 controls (less than 40% of the full dataset).

Forward step-wise results

A forward step-wise procedure was carried out first, beginning with the null model containing no covariates. Variables were inserted into the model and if they provided a reduction in the AIC they were retained. With the forward step-wise procedure once a covariate has been included in the model it is not removed. Variables are continually added to the model until no improvement in the AIC value can be seen. The model with the lowest AIC value is then considered the "best" model. The model considered best according to this procedure had an AIC of 130, residual deviance of 0 on 423 degrees of freedom and included the covariates

```
Case ~ chicken_grill + q6b_wash_hands + q21_chicken + q15c_chick_pieces + q19d + q23b_water_roof + q15i_list___3 + child_age_group + q14a_indirect_contact + q23_bottled_water + q20a + q15h_meat_handled__6+ q7b_work__1 + q23c_water_source___7 + q23c_water_source___1 + q26_flies + q15h_meat_handled__4 + q15f_beef_pieces + q17_dinners + q22a_sheep__2 + q22a_other_animal_sick + q22a_pets_contact + q6a_dairy_animals__3 + q16_options_not_meat__2 + q24b_other_water__1 + beef_buy_frozen + q24a_pool_type__3 + chicken_bbq + q15c_chick_deli + lamb_bbq + q16_options_chicken__1 + q16_options_meat__4 + q15f_pork_saus + q15f_beef_chop + beef_buy_fresh + q15_meat_consumption + q15a_meat_type__5 + q11b_treatment_4weeks + q15f_beef_mince + q20_wash_board_list + chick_froze + q15c_chick_other + q21_meat + q16_options_meat__6 + q22a_pets__2 + q15i_list__4 + q6a_poultry__1 + q23e_bottled_water_only + q15c_chick_kebabs
```

Note that the variable naming used here is based on the variable field names provided in the survey.

The variables of most importance are likely to enter the model first as they explain the largest amount of the variation in the response. The table below shows the first 20 variables to enter the model and the corresponding reduction in the AIC and residual deviance. This model should be compared in terms of its fit with other multivariate models based on the other statistical methods of variable importance and expert knowledge.

```
Step Df Deviance Resid. Df Resid. Dev
                                                   635.7778 637.7778
1
                                             487
                          NA
2
          + chicken_grill -1 47.734509
                                             486
                                                   588.0433 592.0433
3
         + q6b_wash_hands -4 48.628118
                                             482
                                                   539.4152 551.4152
4
             + q21_chicken -2 26.871364
                                             480
                                                   512.5438 528.5438
5
      + q15c_chick_pieces -1 23.868099
                                             479
                                                   488.6757 506.6757
6
                   + q19d -2 28.511098
                                             477
                                                   460.1646 482.1646
                                             476
                                                   440.4742 464.4742
7
        + q23b_water_roof -1 19.690439
8
          + q15i_list___3 -1 14.665135
                                             475
                                                   425.8090 451.8090
        + child_age_group -4 23.245380
                                             471
                                                   402.5637 436.5637
10 + q14a_indirect_contact -2 13.984389
                                             469
                                                   388.5793 426.5793
   + q23_bottled_water -1 11.928819
                                             468
                                                   376.6504 416.6504
```

```
12
                   + q20a -2 12.848741
                                             466
                                                   363.8017 407.8017
13 + q15h_meat_handled___6 -1 9.916363
                                             465
                                                   353.8853 399.8853
           + q7b_work___1 -1 9.406304
                                             464
14
                                                   344.4790 392.4790
15 + q23c_water_source_
                                             463
                        7 -1 10.349216
                                                   334.1298 384.1298
16 + q23c_water_source___1 -1 18.186913
                                             462
                                                   315.9429 367.9429
17
              + q26_flies -2 13.102864
                                             460
                                                   302.8400 358.8400
18 + q15h_meat_handled___4 -1 10.061546
                                             459
                                                   292.7785 350.7785
19
       + q15f_beef_pieces -1 9.838414
                                             458
                                                   282.9401 342.9401
20
                                             457
            + q17_dinners -1 12.517461
                                                   270.4226 332.4226
```

For quick reference those variable names not fully obvious from the naming are as follows: q19d = using separate chopping boards for other foods such as fruit and veg, q20a = washing boards between use with meat and veg, q21_chicken = rinsing raw chicken before cooking, q16_options_not_meat_2 = having a vegetarian snack at a fast food place, q24b_other_water_1 = participating in other water activities e.g. sailing, kayaking, fishing, q21 meat = rinsing raw meat before cooking.

Mixed step-wise results

Unlike the forward step-wise approach, where once a variable has been added to the model it is not removed, the mixed step-wise approach allows a variable in the model to be removed if it results in an improvement in the AIC. Any model can be used as the initial model to start the procedure. Use of the full saturated model as the initial starting point does not yield a model with an improved AIC or residual deviance over that reached by the forwards approach. However, allowing the model received from the forwards approach as the initial starting point for this approach allows for a slightly improved model compared to that shown above by the removal of the covariates beef_grill and q15c_chick_deli (see below).

```
Step Df Deviance Resid. Df Resid. Dev AIC

1 NA NA 423 5.608263e-06 130

2 - q15h_meat_handled__6 1 1.560651e-07 424 5.452198e-06 128

3 - q7b_work__1 1 5.168325e-08 425 5.400514e-06 126
```

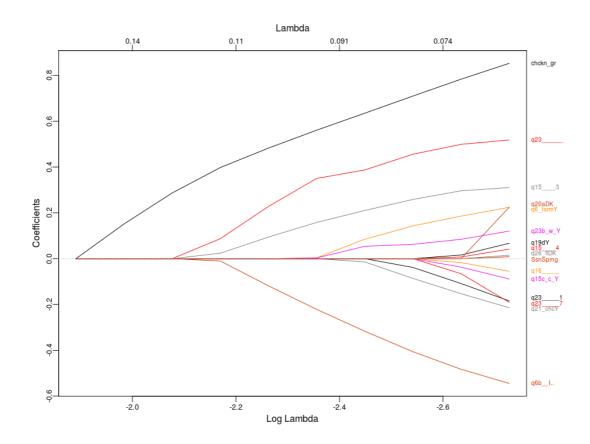
Least Absolute Shrinkage and Selection Operator (LASSO) approach

The step-wise logistic regression approach involves using ordinary least squares to fit a linear model that contains a subset of the covariates in the dataset. Rather than selecting a certain subset of covariates to include in the model, the LASSO approach allows a model that contains all p covariates, but shrinks some of the covariates coefficients towards zero. The shrinking of these coefficients to exactly zero makes the LASSO approach useful for selecting variables of importance and also helps overcome the difficulties of multicollinearity faced in the step-wise logistic regression approach. The LASSO approach however, does require the user to determine an appropriate tuning parameter λ , where $\lambda \geq 0$, which regulates the amount of shrinkage that will occur. A large value of λ implies a large amount of shrinkage will occur and thus a very large number of the coefficients in the model will be shrunk to zero. In contrast, when $\lambda = 0$ there is no penalty applied and the coefficients will be the same as those achieved by the logistic regression model (i.e. the ordinary least squares estimates). The choice of appropriate λ can be made by applying cross-validation techniques as carried out in the results section.

LASSO models allow for estimation of effect sizes (i.e. odds ratios and their 95% CIs). The estimates from the LASSO model tend to be biased to being more conservative than those obtained from the logistic regression modelling due to the shrinkage of many coefficients. Unfortunately, the LASSO approach, similarly to logistic regression, requires observations which have no missing data. So the dataset, with 177 cases and 314 controls, used for the step-wise logistic regression was also used here.

LASSO results

The R package glmnet was used to perform the LASSO analysis and visualisation was carried out using the plotmo package. A preliminary LASSO model was run where the model was constrained to only contain at most 20 variables of importance. The plot below shows the order in which coefficients became non-zero (i.e. the variable begins to have an effect on the outcome) and what their coefficient becomes for a range of different values of λ . Notice that λ is provided along the top of this plot, with larger values of λ are to the left (more shrinkage) and smaller values of λ on the right (less shrinkage). Recall that the larger λ the fewer coefficients that are non-zero. Therefore, looking at this plot it can be seen the first variable which enters the model is chickn grill (i.e. cooking chicken on the grill). This implies that cooking chicken on the grill appears to account for a larger amount of variation in the outcome than other variables. As λ increases, the effect size of the risk factor cooking chicken (i.e. coefficients on the plot) on the grill grows. Note that those covariates with positive coefficients can be considered as risk factors which have a negative impact, whereas those with negative coefficients can be considered as protective factors. This plot shows that q6b I (washing hands before meals if visually dirty) and q21 chchY (washing raw chicken before cooking) can be considered protective.



This approach detected 16 coefficients of importance. However, it should be considered if a smaller group of these coefficients is more appropriate. The choice of appropriate λ helps aids this decision. Cross-validation analysis suggests that the most appropriate value of λ (i.e. that which minimises the formulation of the LASSO) is 0.0210 with a conservative estimate λ_{1SE} (i.e. the minimum value of λ plus 1 standard error) of 0.0178. Both these values λ and λ_{1SE} fall outside the lower bound of our plot. Therefore, this suggests that all 16 variables determined to be of importance should be retained in the model.

Given the small value of λ it is unsurprising that the covariates of importance found here are a similar subset to those identified as entered the step-wise logistic regression method first.

Random forest classification

Random forests are a classification method based on classification trees, which are often used for prediction purposes. A classification tree is constructed by first determining a root node, that is calculating which variable best predicts the response. The root node variable is chosen based on a measure of impurity. A variable is considered as impure if it does not perfectly separate the data into the categories of the response. A popular measure of impurity is the Gini index. Once the root node is decided, the other variables in the dataset can then be used to split the data into smaller subsets, for which the impurity measure can be re-calculated. This procedure is repeated until no further decrease in the Gini impurity index occurs.

Classification trees often lack accuracy and are unstable with respect to small changes in the data. The random forest technique was introduced to make use of the classification trees, but help improve the predictive accuracy and account for the instability through averaging. A random forest involves taking a bootstrapped sample (with replacement) from the dataset many times and for each bootstrap sample creating a classification tree. The results from a large number of classification trees can then be combined, to provide prediction or determine the variables of most importance. Determining variables of most importance can be done by assessing the mean decrease in accuracy or the mean decrease in Gini impurity measure. The disadvantage to using random forests over a technique such as logistic regression or LASSO is that a random forest is a non-parametric approach for which we do not calculate effect sizes (i.e. odds ratios). However, unlike logistic regression the models more easily take into consideration possible interactions and assessment of which interactions of variables are of most importance can be done.

Random forests can be implemented in R using two different approaches. The first is through the R package randomForest created by A. Liaw and M. Wiener (2002), which is the standard package used by many. The disadvantages of the randomForest package are that splits in trees are often favoured by variables with a large number of categories or numerical variables (not a big concern with our data) and that the dataset used must be complete (i.e. no missing data). Therefore, we again made use of the dataset used with the logistic regression and LASSO modeling with this package.

Another R package for implementing random forests called the party package, created by Strobl et. al (2008), allows for the incorporation of missing data and accounts for the splitting problem observed in the randomForest package. However, at this point in time the party package does not have a means of calculating the importance measure for groups of variables, so that the most important interactions could be determined.

In this analysis, the party package was used to provide a random forest model where missing data were taken into consideration. The most important individual variables were determined by calculating the mean decrease in accuracy. Since it is not possible to determine the most important interactions using the party package at this time, the randomForest package was used to determine the most important individual variables and interactions. The results for the two approaches were then compared.

cforest variable importance implementation

A total of 1000 trees were incorporated in the random forest (very little difference was seen in most important covariates when using 1000 trees in comparison to 2000 trees). The top 20 variables of most importance in terms of their mean decrease in accuracy are tabulated below. It is encouraging to see that a similar subset of variables is considered important by this approach, which incorporates all the data, in comparison to the step-wise logistic regression and LASSO techniques.

Variable	Mean decrease in accuracy
q6b_wash_hands	0.002306

Variable	Mean decrease in accuracy
q6_farm	0.002278
q23a_water_source4	0.001958
q15i_list3	0.001734
q14_contact	0.001614
q6_farm_yes	0.001598
q15i	0.001508
q14a_close_contact	0.001493
q23b_water_roof	0.001408
q23b_treat_meth_roof4	0.001373
q23c_water_source7	0.001337
chicken_grill	0.001308
q14a_other_contact	0.001305
q15h_meat_handled4	0.001254
q15i_list4	0.001215
q23a_water_source1	0.001208
q14a_indirect_contact	0.00117
chick_fresh	0.001156
q25_compost	0.001149
q15h_meat_handled6	0.001118

randomForest variable importance implementation

A total of 500 trees were included in the implementation of randomforest (less variation occurred in importance due to the smaller sample size used with the randomForest package). Below is the tabulation of the mean decrease in accuracy and mean decrease in Gini impurity index for the top 20 variables. A similar subset of important variables can be seen here in comparison to cforest, LASSO and step-wise logistic regression.

Variable	MDA	MD.Gini
chicken_grill	27.33	7.609
q20a	16.11	2.559
q6b_wash_hands	14.25	5.169
q15h_meat_handled4	11.85	1.677
child_age_group	10.86	2.33
q15i_list4	10.77	1.994
q15h_meat_handled5	10.28	1.603
q15i_list3	10.13	2.166
q6_farm_yes	9.86	1.927
location	9.417	1.15
q26_flies	9.009	1.404
Season	8.978	3.399
q16_other_food2	8.911	1.316
q23b_treat_meth_roof4	8.704	1.475

Variable	MDA	MD.Gini
q16_other_food1	8.573	1.502
chick_fresh	8.025	1.086
q11b_treatment_name	7.731	3.779
q23b_water_roof	7.407	1.265
q23c_water_source7	7.096	1.021
q16_options_chicken1	6.950	1.196

A group importance measure based on a weighted average of the Gini impurity index was calculated to see if any potential interactions were flagged as important. However, what can be seen from the table below is that some of our main effects (in particular chicken cooked on the grill) have such a large effect on the outcome that any signal of an important interaction is lost. Therefore, expert opinion was required to determine appropriate interaction terms (if any) for our multivariate models.

group.imp	interactions
8.191	chicken_grill q15f_pork_burger
8.191	q15f_pork_burger chicken_grill
8.182	chicken_grill q22a_cattle_sick
8.182	q22a_cattle_sick chicken_grill
8.173	chicken_grill q23b_treat_meth_bore2
8.173	q23b_treat_meth_bore2 chicken_grill
8.164	chicken_grill q15g_lamb_source4
8.164	q15g_lamb_source4 chicken_grill
8.155	chicken_grill q23d_treat_meth_bore24
8.155	q23d_treat_meth_bore24 chicken_grill
8.146	chicken_grill q23b_water_private_bore
8.146	q23b_water_private_bore chicken_grill
8.146	chicken_grill q6a_dairy_animals2
8.146	q6a_dairy_animals2 chicken_grill
8.146	chicken_grill q23d_treat_meth_bore22
8.146	q23d_treat_meth_bore22 chicken_grill
8.137	chicken_grill q22a_pigs_contact
8.137	q22a_pigs_contact chicken_grill
8.128	chicken_grill q15f_beef_offal
8.128	q15f_beef_offal chicken_grill

Building and comparing multivariate models

Choice of model

Several models based on the above results and expert opinion about the epidemiology of campyloabcteriosis were constructed. These models were then compared using AIC, BIC, and residual deviance along with their degrees of freedom. A preliminary model was constructed based on the covariates considered important by the LASSO. Variables which

were considered important according to the random forest approach were then added. Questions which were nested within other questions in the model were then removed (e.g. direct, indirect and other contact are nested inside the question did you have contact with someone who had gastroenteritis). This resulted in a model which was still very much overparameterised. Expert opinion and the guidance provided by the univariate analysis allowed us to reduce this model further. The removal of variables not considered to be of interest and the addition of other variables seen to have a large effect in the univariate analysis resulted in the model found in the main body of this report.

Having decided on the appropriate model it was run on the full dataset and odds ratios, population attributable fractions and their confidence intervals estimated.

Population attributable fraction (PAF)

The number of terms used to describe attributable measures is perhaps the largest of any concept in epidemiology, with many authors often providing no exact definition for their measure used and very few providing confidence intervals. The current study has used the adjusted population attributable fraction for case-control studies described by Bruzzi *et al.* [1] defined as:

$$PAF = \frac{P_e (RR - 1)}{1 + P_e (RR - 1)},$$

Where P_e is the probability of exposure in the population to the risk factor being considered for removal. This value under a case-control study is estimated based on the probability of exposure to the risk factor in the control group, under the assumption that the control group is representative of the population that is not diseased (this assumption should only be made if the disease under consideration is rare in the population) and RR represents the relative risk, which Bruzzi $et\ al.$ suggests replacing with an adjusted odds ratio calculated from a logistic regression model. Note that the PAF as a percentage can be obtained by simply multiplying the value calculated by 100. Bruzzi $et\ al.$ calculated confidence intervals for the PAF based on the delta method. Due to a lack of R package for implementing confidence interval calculation for this adjusted PAF bootstrapped confidence intervals were calculated, where 1000 bootstrap samples are taken from the dataset. These allow both the uncertainty in the probability of exposure (as controls are resampled) and uncertainty in the relative risk from the odds ratio (as cases are resampled).

The PAF can take on values between $-\infty$ and 1. A negative value for the PAF suggests that the risk factor been considered from the population has a protective effect, whereas a positive PAF represents a harmful exposure (PAF of 0 suggests no effect). As an example of interpreting the PAF say the PAF is 0.5. This suggests that a maximum of 50% of the cases of campylobacteriosis in the population can be attributed to the risk factor being considered. If the PAF were -1 this would suggest that if the exposure was removed then the number of cases would be expected to increase by 100% (i.e. double).

References

1. Bruzzi P, Green SB, Byar DP, et al. 1985. Estimating the population attributable risk for multiple risk factors using case-control data. *American Journal of Epidemiology* 122(5): 904-14.

APPENDIX G: MICROBIOLOGY AND WHOLE GENOME SEQUENCING PROCEDURES

Sample processing: human samples

The participating diagnostic laboratories were:

- Labtests Auckland
- North Shore Hospital
- Middlemore Hospital
- Auckland Hospital
- MedLab Central

Each laboratory (apart from MedLab Central) took a charcoal swab from the remaining faecal sample of a sample giving a positive result, either by plate culture (Middlemore, North Shore) or polymerase chain reaction (PCR) direct test (Labtests, Auckland). The original sample was usually a faecal sample, but other sample types (blood, tissue etc.) were not excluded. For these other types of sample, a swab from a positive culture plate was supplied by the laboratory. Medlab Central provided a swab taken from several *Campylobacter* colonies with identical morphology appearing on each positive culture plate.

The swabs were stored by the laboratory at refrigeration temperature for up to a week before sending to ESR. Swabs were identified by the NHI number accompanying the notification. In most cases, the submitting laboratory number was also supplied, in case follow-up was needed.

Samples from the participating laboratories were sent to ESR where they were cultured on modified Cefoperazone Charcoal Deoxycholate agar (mCCDA) plates and in Bolton Broth and incubated at 42°C in a microaerobic atmosphere (85% N₂, 10% CO₂, 5% O₂) for two days. If growth was successful on the plates, then a single colony resembling *Campylobacter* species was subcultured to Blood Agar (BA) and incubated microaerobically at 42°C for 2 days before DNA preparations were made. If no growth occurred from direct plating, the broth was subcultured to a mCCDA plate. The plate was incubated in a microaerobic atmosphere, 42°C for approximately 48 hours.

Samples were batched into groups of 40 at the ESR PHL, with labortories sending once per week (on Mondays to arrive Tuesday). This assumed that refrigerated storage for up to a week before sending to the PHL results in very few losses⁷. Swabs received by Massey from MedLab Central were all processed for isolate recovery, as current. In the event of a public holiday falling on a Monday, swabs were sent on the following day.

Swabs received by ESR from which isolates were recovered were from every second notified case, and those cases were interviewed by the Public Health Units involved.

Each week, on a Monday, a list of the NHI numbers for each second case (i.e., the cases created in REDCap) at ARPHS and every case from MCPHS were supplied to the ESR PHL, so that isolates supplied by laboratories, arriving on Tuesday mornings, could be identified for recovery from the charcoal swabs. Some isolates were recovered from cases

⁷ Unpublished work by Massey indicates that holding charcoal swabs refrigerated for up to a week results in only very small loss in recovery, and their experience with swabs provided from MidCentral and Whanganui is that recovery is >90%.

that were not able to be contacted for interview, or declined – the number of these were monitored.

Recovered isolates at ESR were checked for species using PCR (see below).

Residual broths and other materials were disposed of according to normal medical disposal procedures in the laboratory for biohazardous materials (double "yellow" bag-lined "Biohazard Yellow Bin" supplied by Interwaste).

Sample processing: source samples

Poultry

Campylobacter isolates were supplied (as swabs from colonies on a culture plate) by the poultry industry from laboratories conducting National Microbiological Database testing. Isolates were recovered using the same methods as for processing the human faecal samples.

Ruminants (cattle, sheep)

Samples of each animal type were pooled in sets of four and the pooled samples screened for *Campylobacter* spp. by inoculating into Bolton's broth and incubation at 37°C for four hours followed by 42°C microaerobically for 44 hours. After incubation the broth was subcultured onto mCCDA agar and incubated microaerobically at 42°C for two days. Single colonies resembling *Campylobacter* species were subcultured to BA and incubated microaerobically at 42°C for 2 days before DNA preparations were made.

Recovered isolates at ESR were checked for species using PCR (see section 5d below).

Residual broths and other materials were disposed of according to normal medical disposal procedures in the laboratory for biohazardous materials (double "yellow" bag-lined "Biohazard Yellow Bin" supplied by Interwaste).

Isolates and storage

It was assumed that a total of ~850 *Campylobacter* isolates from humans would be obtained by ESR from the approximately 1100 human clinical samples submitted, and 450 *Campylobacter* isolates would be obtained from source samples. Freezer space for the preservation of these isolates required a minimum of four racks of freezer space (freezer boxes with 100 tubes, and freezer racks with 16 placements), or one quarter of a standard -80°C freezer. Both ESR and mEpiLab had access to enough freezer space to store the entire collection and duplicate sets were stored in both locations.

A complete set of isolates was held by both ESR and Massey. Periodic shipments of frozen isolates were made from ESR to Massey during the course of the project.

A single set of isolates was sent to Massey approximately every second months for WGS

- 1. First week of May 2018
- 2. First week of July 2018
- 3. First week of September 2018
- 4. First week of November 2018
- 5. First week of February 2019
- 6. Last week of March 2019

Conditions of transport (WGS)

- Samples were isolates frozen at -80°C in glycerol broth (heavy inoculum into the glycerol is essential)
- In preparation for couriering, plenty of slicka pads/freezer blocks were frozen in the -80°C freezer
- In the chilly bin, completely the box of cultures was completely encased with slicka pads/freezer blocks
- A covering letter to Massey was enclosed describing the number of samples enclosed
- Overnight courier to Massey

Costs for storage of isolates at ESR was covered by the annual isolate storage allocation in the ESR-MPI core contract.

Species determination

The method is suitable for the detection of thermotolerant *Campylobacter* species (*C. jejuni, C. coli, C. lari and C. upsaliensis*) in enrichment broths or from isolated colonies on enrichment plates. In addition to detecting the presence of a thermotolerant *Campylobacter*, this PCR will also determine if it is *C. jejuni* and/or *C. coli*, the species most prevalent in human cases of campylobacteriosis.

Details of the genes targeted by the PCR are as follows. Note that they have not been found in organisms other than *Campylobacter* species.

Bacteria Detected	Target gene	Gene Function
Thermotolerant Campylobacter species	23S rRNA gene	protein synthesis
C. jejuni	IpxA gene	Encodes enzyme acyltransferase which catalyses biosynthesis of lipid A. Lipid A is required for formation of lipopolysaccharides, which are a major constituent of the outer membrane of Gram-negative bacteria.
C. coli	ceuE gene	Encodes the lipoprotein component of a protein- binding transport system involved in iron acquisition

Primers:

Primer Reference:		Sequence:
O0238	LpxA forward	5'-CCGAGCTTAAAGCTATGATAGTGGAT-3'
O0239	LpxA reverse	5'-TCTACTACAACATCGTCACCAAGTTGT-3'
O0240	Therm forward	5'-AAATTGGTTAATATTCCAATACCAACATTAG-3'
O0241	Therm reverse	5'-GGTTTACGGTACGGGCAACATTAG-3'
O0242	CeuE forward	5'-CATGCCCTAAGACTTAACGATAAAGTT-3'
O0243	CeuE reverse	5'-GATTCTAAGCCATTGCCACTTGCTAG-3'

Whole genome sequencing (WGS)

Obtaining DNA for genomic sequencing

The following minimum QC requirements of gDNA for library preparation procedures were applied:

- Non-degraded DNA, as visualised on a 0.8% agarose gel (a single clean large MW band should be visible, with little or no smearing). A photo of each gel should be provided for QC checking.
- <10% of total nucleic acid from RNA.
- Total protein must be <10% of the concentration of total nucleic acid.
- DNA concentration measurements will be accurately determined using Qubit.
- gDNA will be extracted using a modified protocol from the Qiagen mini DNA spin column kits.
- Although labour intensive, manual extraction is feasible for 1050 isolates.

Genome sequencing

Genomic Libraries were prepared using the Illumina Nextera XT kit, in conjunction with the Illumina indexing kits. The Massey Genome Service (MGS) used both MiSeq and HiSeq sequencing technology.

Based on current application of WGS for *C. jejuni* in mEpiLab the aim was to achieve approximately x50 average genomic coverage and good quality contig assembly, high N50s and approximately 75% of the total genome in fewer than 25 contigs. Both MiSeq and HiSeq technology were deployed to produce outcomes of suitable quality for this project. The advantage of MiSeq (despite the higher cost per sample) is that weekly sequencing runs can be carried out to generate data, and these could be checked steadily over the course of the project to avert and minimise the impact of any problems associated with library preparation. In addition, HiSeq technology allowed samples to be accumulated for larger scale sequencing runs carried out every 2–3 months.

Bioinformatic analysis

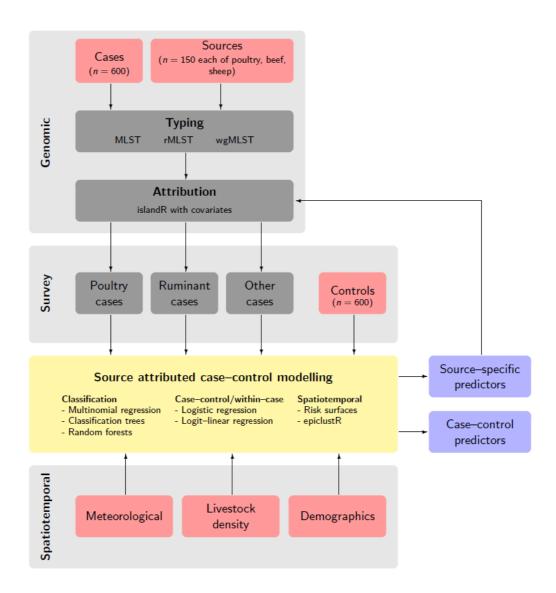
The raw read data generated by the genome sequencing was aligned and annotated into sequences suitable for phylogenetic and genomics analysis. This is a rapidly developing field and there are a number of bioinformatics pipelines that can be used to align, assemble and annotate the sequence data. The most appropriate method available when the data became available was applied, using either custom in-house approaches and/or approaches developed by others. For example, the Nullarbour pipeline⁸ contains a suite of tools that take raw read data and output sequence quality data, SNP profiles, and virulence and resistance gene content. Genome Profiler developed by "EpiLab bioinformatician Dr Ji Zhang [1] for producing whole genome MLST profiles was also used. The outputs of these analyses provided data for source attribution and other genomic analyses (e.g. resistance profiling).

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⁸ https://github.com/tseemann/nullarbor

Analysis

An outline of the analysis plan is provided below.



References

- 1. Zhang J, Halkilahti J, Hänninen M-L, et al. 2015. Refinement of whole-genome multilocus sequence typing analysis by addressing gene paralogy. *Journal of Clinical Microbiology* 53(5): 1765-1767.
- 2. Wilson DJ, Gabriel E, Leatherbarrow AJH, et al. 2008. Tracing the source of campylobacteriosis. *PLoS Genetics* 4(9): e1000203-e1000203.
- 3. Mughini Gras L, Smid JH, Wagenaar JA, et al. 2012. Risk factors for campylobacteriosis of chicken, ruminant, and environmental origin: a combined case-control and source attribution analysis. *PLoS One* 7(8): e42599.
- 4. Mughini Gras L, Smid JH, Wagenaar JA, et al. 2013. Increased risk for *Campylobacter jejuni* and *C. coli* infection of pet origin in dog owners and evidence for genetic association between strains causing infection in humans and their pets. *Epidemiology and Infection* 141(12): 2526-35.

APPENDIX H: CASE INTERVIEW RESULTS BY WEEK

Table 27. Cases created, and result of contact attempts by week, Auckland

Case Interviews ARPHS	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or	Cases interviewed	Cases with interview and isolate
Week 1	19	2	1	other reason 6	10	7
12–18 March 2018	10	-	·	ŭ	10	,
Week 2 19–25 March 2018	19	3	0	8	8	6
Week 3 26 March – 1 April 2018	10	1	0	6	3	2
Week 4 2–8 April 2018	15	1	1	8	5	4
Week 5 9–15 April 2018	14	0	0	7	7	5
Week 6 16–22 April 2018	15	0	1	6	8	7
Week 7 23–29 April 2018	14	2	0	5	7	4
Week 8 30 April – 6 May 2018	18	0	4	3	11	10
Week 9 7–13 May 2018	17	3	3	2	9	6
Week 10 14–20 May 2018	12	3	0	5	4	3
Week 11 21–27 May 2018	13	4	4	2	3	3
Week 12 28 May – 3 June 2018	17	1	1	2	13	11
Week 13 4–10 June 2018	10	1	3	0	6	5
Week 14 11–17 June 2018	12	0	2	3	7	4
Week 15 18–24 June 2018	21	3	1	2	15	12
Week 16 25 June – 1 July 2018	12	0	0	1	11	10
Week 17 2–8 July 2018	13	1	4	2	6	6
Week 18 9–15 July 2018	16	3	2	4	7	3
Week 19 16–22 July 2018	19	1	7	1	10	7

Week 20 23–29 July 2018	15	0	5	3	7	5
Week 21 30 July – 5 August 2018	9	0	1	2	6	3
Week 22 6–12 August 2018	13	4	3	1	5	3
Week 23 13–19 August 2018	13	1	2	1	9	9
Week 24 20–26 August 2018	10	2	0	2	6	6
Week 25 27 August – 2 September 2018	22	1	7	3	11	7
Week 26 3–9 September 2018	18	1	3	1	13	8
Week 27 10–16 September 2018	17	0	4	1	12	11
Week 28 17–23 September 2018	19	2	7	2	8	6
Week 29 24–30 September 2018	19	2	4	3	10	9
Week 30 1–7 October 2018	20	1	7	4	8	6
Week 31 8–14 October 2018	15	3	4	0	8	7
Week 32 15–21 October 2018	22	0	3	6	13	9
Week 33 22–28 October 2018	22	1	0	5	16	13
Week 34 29 October – 4 November 2018	27	4	4	5	14	12
Week 35 5–11 November 2018	27	2	8	1	16	11
Week 36 12–18 November 2018	24	1	5	4	14	13
Week 37 19–25 November 2018	29	1	3	6	19	16
Week 38 26 November – 2 December 2018	33	2	8	3	20	15
Week 39 3–9 December 2018	61	2	9	10	40	30
Week 40 10–16 December 2018	42	3	5	6	28	22
Week 41 17–23 December 2018	35	2	3	5	25	22
Week 42 24–30 December 2018	21	3	4	7	7	5

Total Auckland	1076	91 (8%)	165 (15%)	222 (21%)	598 (56%)	
25 February – 3 March 2019 Week 52 4–11 March 2019	23	2	3	4	14	10
2019 Week 51	18	2	4	4	8	3
Week 50 18–24 February	13	5	1	3	4	3
Week 49 11–17 February 2019	18	0	2	7	9	3
February 2019 Week 48 4–10 February 2019	17	3	1	4	9	3
Week 47 28 January – 3	21	2	2	7	10	5
Week 46 21–27 January 2019	36	3	8	10	15	13
Week 45 14–20 January 2019	26	0	4	10	12	8
Week 44 7–13 January 2018	47	5	4	10	28	17
Week 43 31 December 2018 – 6 January 2019	38	2	3	9	24	17

Case Interviews - MCPHS

Table 28. Cases created, and result of contact attempts by week, Manawatū-Whanganui

Case Interviews MCPHS	Cases created in REDCap	Cases declined	Cases not eligible	Cases unable to be contacted or other reason	Cases interviewed	Cases with interview and isolate
Week 1 12–18 March 2018	10	2	1	2	5	2
Week 2 19–25 March 2018	2	0	2	0	0	0
Week 3 26 March – 1 April 2018	7	2	2	2	1	1
Week 4 2–8 April 2018	4	0	1	0	3	2
Week 5 9–15 April 2018	6	1	0	1	4	3
Week 6 16–22 April 2018	5	1	0	0	4	4
Week 7 23–29 April 2018	4	1	0	0	3	2
Week 8 30 April – 6 May 2018	5	0	0	0	5	5
Week 9 7–13 May 2018	11	2	1	1	7	6
Week 10 14-20 May 2018	9	1	0	0	8	5
Week 11 21–27 May 2018	5	1	1	1	2	2
Week 12 28 May – 3 June 2018	1	0	0	0	1	1
Week 13 4–10 June 2018	9	1	0	3	5	4
Week 14 11–17 June 2018	4	0	1	0	3	3
Week 15 18–24 June 2018	6	0	0	0	6	6
Week 16 25 June – 1 July 2018	5	0	0	0	5	4
Week 17 2–8 July 2018	10	0	2	0	8	8
Week 18 9–15 July 2018	2	0	0	0	2	1
Week 19 16–22 July 2018	4	0	0	1	3	2
Week 20 23–29 July 2018	5	0	2	1	2	1
Week 21 30 July – 5 August 2018	6	2	1	1	2	1

Week 22 6–12 August 2018	6	1	0	0	5	5
Week 23 13–19 August 2018	2	0	1	1	0	0
Week 24 20–26 August 2018	7	0	2	0	5	2
Week 25 27 August – 2 September 2018	5	0	1	2	2	2
Week 26 3–9 September 2018	5	0	0	0	5	5
Week 27 10–16 September 2018	8	0	0	0	8	6
Week 28 17–23 September 2018	7	1	0	0	6	5
Week 29 24–30 September 2018	4	0	0	1	3	2
Week 30 1–7 October 2018	4	0	0	1	3	3
Week 31 8–14 October 2018	11	0	2	1	8	8
Week 32 15–21 October 2018	7	0	2	1	4	3
Week 33 22–28 October 2018	11	0	0	2	9	9
Week 34 29 October – 4 November 2018	9	0	1	1	7	6
Week 35 5–11 November 2018	7	1	2	1	3	3
Week 36 12–18 November 2018	12	1	3	0	8	7
Week 37 19–25 November 2018	13	0	2	4	7	4
Week 38 26 November – 2 December 2018	12	0	0	3	9	8
Week 39 3–9 December 2018	20	2	2	2	14	13
Week 40 10–16 December 2018	13	1	1	2	9	9
Week 41 17–23 December 2018	8	1	0	0	7	6
Week 42 24–30 December 2018	9	5	0	1	3	3
Week 43 31 December 2018 – 6 January 2019	15	4	0	4	7	6
Week 44 7–13 January 2018	16	4	0	2	10	10

Week 45 14–20 January 2019	14	3	0	1	10	10
Week 46 21–27 January 2019	2	1	1	0	0	0
Week 47 28 January – 3 February 2019	6	2	1	0	3	3
Week 48 4–10 February 2019	7	1	0	0	6	5
Week 49 11–17 February 2019	6	1	0	0	5	5
Week 50 18–24 February 2019	6	1	0	0	5	4
Week 51 25 February – 3 March 2019	5	0	0	3	2	1
Week 52 4–11 March 2019	10	2	2	0	6	5
Total Manawatū- Whanganui	387	46 (12%)	39 (10%)	44 (12%)	258 (67%)	
Study Tolerance	100%	10%	5%		85%	

APPENDIX I: UNIVARIATE RISK FACTOR ANALYSES

	Cases	N=666)	Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Gastric treatment in 4 weeks prior?						
N	556/664	83.7	540/600	90.0	Reference	
Υ	101/664	15.2	60/600	10.0	1.84	(1.29,2.65)
Gastro treatment taken?						
No gastro drugs	556/656	84.8	540/600	90.0	Reference	
Eno	0/656	0.0	1/600	0.2		
Gaviscon	10/656	1.5	8/600	1.3	1.22	(0.47,3.26)
Lansoprazole	1/656	0.2	3/600	0.5	0.45	(0.02,3.66)
Lanzole	4/656	0.6	0/600	0.0		
Losec	22/656	3.4	9/600	1.5	2.91	(1.35,6.81)
Mylanta	1/656	0.2	4/600	0.7	0.34	(0.02,2.35)
Omeprazole	52/656	7.9	14/600	2.3	4.14	(2.29,7.96)
Pantoprazole	7/656	1.1	3/600	0.5	2.25	(0.61,10.61)
Peptisoothe syrup	0/656	0.0	1/600	0.2		
Quick-ese	1/656	0.2	7/600	1.2	0.19	(0.01,1.09)
Ranitidine	1/656	0.2	3/600	0.5	0.29	(0.01,2.26)
Zantac	0/656	0.0	1/600	0.2		
Other	1/656	0.2	6/600	1.0	0.16	(0.01,0.95)
Chemotherapy?						
N	658/662	99.4	598/600	99.7	Reference	
Υ	4/662	0.6	1/600	0.2	4.81	(0.7,94.92)
Cyclosporine?						

	Cases (N=666)		Controls	(N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
N	661/663	99.7	598/600	99.7	Reference	
N	0/663	0.0	0/600	0.0	Undefined	
Methotrexate?						
N	656/663	98.9	591/600	98.5	Reference	
Υ	5/663	0.8	6/600	1	0.97	(0.27,3.32)
Prednisone?						
N	644/663	97.1	581/600	96.8	Reference	
Υ	16/663	2.4	17/600	2.8	0.82	(0.4,1.67)
Radiation?						
N	658/659	99.9	597/600	99.5	Reference	
Υ	1/659	0.2	2/600	0.3	0.48	(0.02,5.14)
Chronic Illness?						
N	619/663	93.4	590/600	98.3	Reference	
Υ	36/663	5.4	10/600	1.7	3.43	(1.73,7.44)
Type of chronic illness?						
Crohn's diseases	2/663	0.3	1/600	0.2	2.13	(0.2,46.61)
Irritable bowel syndrome	12/663	1.8	5/600	0.8	1.98	(0.72,6.32)
Ulcerative colitis	2/663	0.3	1/600	0.2	2.16	(0.2,47.33)
Stomach or oesophagus problems	3/663	0. 5	0/600	0.0	Undefined	
Other	17/663	2.6	4/600	0.7	3.83	(1.38,13.52)
Travel within NZ last 7 days?						
N	541/664	81.5	499/600	83.2	Reference	
Υ	123/664	18.5	101/600	16.8	1.1	(0.82,1.49)
Travel overseas last 7 days?						
N	647/664	97.4	588/600	98.0	Reference	

	Cases	(N=666)	Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	17/664	2.6	12/600	2.0	1.31	(0.62,2.88)
Contact with someone with gastro symp	toms?					
N	491/665	73.8	539/600	89.83	Reference	
DK	84/665	12.6	12/600	2		
Υ	90/665	13.5	49/600	8.17	1.96	(1.35,2.87)
Close contact with someone with gastro	symptoms (i.e. same house	ehold)?				
N	519/654	79.36	565/600	94.17	Reference	
DK	84/654	12.84	12/600	2		
Υ	51/654	7.8	23/600	3.83	2.28	(1.38,3.87)
Other contact with someone with gastro	symptoms (i.e. different h	ousehold?)				
N	537/655	81.98	565/600	94.17	Reference	
DK	84/655	12.82	12/600	2		
Υ	34/655	5.19	23/600	3.83	1.58	(0.91,2.78)
Indirect contact with someone with gast	ro symptoms?					
N	541/648	83.49	560/600	93.33	Reference	
DK	87/648	13.43	14/600	2.33		
Υ	20/648	3.09	26/600	4.33	0.78	(0.42,1.43)
Did you eat meat?						
N	37/666	5.56	57/600	9.5	Reference	
Υ	617/666	92.64	543/600	90.5	1.75	(1.13,2.75)
Did you eat						
Poultry	527/654	80.58	491/600	81.83	0.92	(0.69,1.24)
Beef	400/654	61.16	391/600	65.17	0.77	(0.6,0.97)
Lamb	165/654	25.23	170/600	28.33	0.83	(0.64,1.07)

	Cases	Cases (N=666)		s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Pork	254/654	38.84	283/600	47.17	0.67	(0.54,0.85)
Other	33/654	5.05	30/600	5	0.84	(0.84,1.42)
Did you eat chicken cooked at home?						
N	127/543	23.39	109/531	20.53	Reference	
Υ	416/543	76.61	422/531	79.47	0.85	(0.63,1.14)
Chicken burger?						
N	442/481	91.89	492/531	92.66	Reference	
Υ	37/481	7.69	38/531	7.16	1.14	(0.70,1.86)
Chicken deli?						
N	452/484	93.39	512/531	96.42	Reference	
Υ	30/484	6.2	16/531	3.01	2.8	(1.5,5.4)
Chicken fillets?						
N	366/503	72.76	390/531	73.45	Reference	
Υ	135/503	26.84	140/531	26.37	1.01	(0.76,1.35)
Chicken kebabs?						
N	453/480	94.38	504/531	94.92	Reference	
Υ	25/480	5.21	26/531	4.90	1.04	(0.57,1.87)
Chicken mince?						
N	460/477	96.44	519/531	97.74	Reference	
Υ	15/477	3.14	11/531	2.07	1.68	(0.75,3.84)
Chicken nuggets?						
N	447/481	92.93	480/531	90.40	Reference	
Υ	31/481	6.44	50/531	9.42	0.62	(0.38,1.01)
Chicken offal?						
N	465/476	97.69	523/531	98.50	Reference	

	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	9/476	1.89	7/531	1.32	1.65	(0.6,4.72)
Other type of chicken?						
N	459/483	95.03	516/531	97.18	Reference	
Υ	22/483	4.55	14/531	2.64	1.66	(0.84,3.4)
Chicken pate?						
N	472/478	98.74	521/531	98.12	Reference	
Υ	4/478	0.84	7/531	1.32	0.69	(0.18,2.35)
Chicken pieces?						
N	309/508	60.83	271/531	51.04	Reference	
Υ	197/508	38.78	259/531	48.78	0.67	(0.52,0.87)
Chicken sausages?						
N	464/480	96.67	519/531	97.74	Reference	
Υ	14/480	2.92	11/531	2.07	1.61	(0.71,3.73)
Whole chicken?						
N	378/486	77.78	391/531	73.63	Reference	
Υ	106/486	21.81	139/531	26.18	0.76	(0.56,1.03)
Did you eat chicken which was pink on the inside?						
N	413/442	93.44	471/482	97.72	Reference	
Υ	29/442	6.56	11/482	2.28	3.21	(1.6,6.87)
Did you eat chicken which was brought						
Cooked	44/459	9.59	101/527	19.17	0.45	(0.3,0.65)
Fresh	154/459	33.55	257/527	48.77	0.61	(0.47,0.8)
Frozen	56/459	12.2	90/527	17.08	0.62	(0.43,0.9)
Frozen then thawed	148/459	32.24	104/527	19.73	1.76	(1.3,2.37)

	Cases (N=666)		Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Other way	7/459	1.53	8/527	1.52	0.81	(0.26,2.41)
Did you eat chicken cook with a						
BBQ	37/666	5.56	20/600	3.33	1.77	(1.02,3.16)
Microwave	1/666	0.22	9/600	1.7	0.21	(0.03,0.81)
Grill	130/666	28.14	56/600	10.57	2.99	(2.13,4.24)
Did you eat poultry outside the home?						
N	390/652	59.82	412/600	68.67	Reference	
Υ	262/652	40.18	188/600	31.33	1.57	(1.23,2.00)
Did you eat chicken from						
Fast food/takeaway	128/652	19.63	99/600	16.5	1.27	(0.94,1.72)
Café/restaurant	92/652	14.11	62/600	10.33	1.59	(1.12,2.27)
Catered event	8/652	1.23	1/600	0.17	6.09	(1.08,114.5)
Social BBQ	16/652	2.45	7/600	1.17	1.91	(0.8,5.06)
Other social occasion (e.g. dinner at friends)	21/652	3.22	12/600	2.00	1.61	(0.79,3.43)
Somewhere else	39/652	5.98	14/600	2.33	2.67	(1.46,5.19)
Did you eat poultry that wasn't chicken?						
N	381/407	93.61	417/439	94.99	Reference	
Υ	25/407	6.14	20/439	4.56	1.37	(0.74,2.57)
Did you eat duck?						
N	401/404	99.26	423/437	96.8	Reference	
Υ	2/404	0.5	14/437	3.2	0.15	(0.02,0.56)
Did you eat duck brought						
Fresh	0/403	0	1/437	0.23	Undefined	
Frozen	0/403	0	0/437	0	Undefined	
Ready cooked	0/403	0	2/437	0.46	Undefined	

	Cases	Cases (N=666)		s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you eat goose?						
N	402/404	99.5	437/437	100	Reference	
Υ	1/404	0.25	0/437	0	Undefined	
Did you eat goose brought						
Fresh	0/403	0	0/437	0	Undefined	
Frozen	0/403	0	0/437	0	Undefined	
Ready cooked	0/403	0	0/437	0	Undefined	
Did you eat turkey?						
N	391/404	96.78	431/437	98.63	Reference	
Υ	12/404	2.97	6/437	1.37	2.24	(0.85,6.59)
Did you eat turkey brought						
Fresh	2/403	0.5	0/437	0	Undefined	
Frozen	0/403	0	0/437	0	Undefined	
Ready cooked	5/403	1.24	0/437	0	Undefined	
Did you eat beef cooked at home?						
N	345/654	52.75	278/600	46.33	Reference	
Υ	309/654	47.25	322/600	53.67	0.71	(0.57,0.9)
Beef burger?						
N	582/617	94.33	535/600	89.17	Reference	
Υ	25/617	4.05	65/600	10.83	0.33	(0.2,0.53)
Beef chop?						
N	593/610	97.21	588/600	98	Reference	
Υ	7/610	1.15	12/600	2	0.59	(0.21,1.5)
Beef deli?						
N	594/609	97.54	589/600	98.17	Reference	

	Cases	Cases (N=666)		s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	5/609	0.82	11/600	1.83	0.45	(0.14,1.28)
Beef mince?						
N	478/625	76.48	452/600	75.33	Reference	
Υ	137/625	21.92	148/600	24.67	0.82	(0.62,1.08)
Beef offal?						
N	595/607	98.02	599/600	99.83	Reference	
Υ	2/607	0.33	1/600	0.17	1.97	(0.19,42.76)
Beef pate?						
N	599/609	98.36	598/600	99.67	Reference	
Υ	0/609	0.00	1/600	0.17	Undefined	
Beef pieces?						
N	574/616	93.18	549/600	91.5	Reference	
Υ	33/616	5.36	51/600	8.5	0.59	(0.37,0.94)
Beef roast?						
N	577/608	94.9	578/600	96.33	Reference	
Υ	21/608	3.45	22/600	3.67	0.84	(0.45,1.58)
Beef sausage?						
N	532/614	86.64	550/600	91.67	Reference	
Υ	73/614	11.89	48/600	8	1.3	(0.87,1.94)
Beef steak?						
N	469/626	74.92	434/600	72.33	Reference	
Υ	148/626	23.64	166/600	27.67	0.76	(0.58,0.99)
Other type of beef?						
N	587/610	96.23	586/600	97.67	Reference	
Υ	13/610	2.13	14/600	2.33	0.9	(0.41,1.98)

	Cases	(N=666)	Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you eat beef which was pink in the middle?						
N	539/600	89.83	499/598	83.44	Reference	
Υ	61/600	10.17	99/598	16.56	0.55	(0.39,0.78)
Did you eat beef brought						
Cooked	11/666	1.65	35/600	5.83	0.25	(0.12,0.48)
Fresh	247/666	37.09	253/600	42.17	0.75	(0.59,0.95)
Frozen	39/666	5.86	87/600	14.5	0.35	(0.23,0.52)
Did you cook beef using a						
BBQ	32/595	5.38	33/598	5.52	0.98	(0.6,1.61)
Microwave	3/595	0.5	5/598	0.84	0.9	(0.24,3.31)
Grill	85/595	14.29	57/598	9.53	1.62	(1.14,2.33)
Did you eat beef brought outside the home?						
N	502/652	76.99	463/600	77.17	Reference	
Υ	150/652	23.01	137/600	22.83	0.94	(0.71,1.23)
Did you eat beef from a						
Fast food/takeaway	66/652	10.12	57/600	9.5	0.94	(0.64,1.38)
Cafe/restaurant	50/652	7.67	57/600	9.5	0.8	(0.53,1.21)
Catered event	6/652	0.92	2/600	0.33	2.44	(0.55,16.95)
Social BBQ	16/652	2.45	4/600	0.67	3.22	(1.16,11.36)
Other social occasion (e.g. dinner at friends)	11/652	1.69	11/600	1.83	0.99	(0.42,2.35)
Somewhere else	20/652	3.07	8/600	1.33	2.01	(0.9,4.92)
Did you eat lamb cooked at home?						
N	525/653	80.40	461/600	76.83	Reference	
Υ	128/653	19.60	139/600	23.17	0.77	(0.58,1.02)
Lamb burger?						

	Cases (N=666)		Controls	(N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
N	632/637	99.22	596/600	99.3	Reference	
Υ	1/637	0.16	4/600	0.67	0.25	(0.01,1.74)
Lamb chop?						
N	581/644	90.22	525/600	87.50	Reference	
Υ	60/644	9.32	75/600	12.50	0.67	(0.46,0.96)
Lamb deli?						
N	633/637	99.00	600/600	100.00	Reference	
Υ	0/637	0	0/600	0	Undefined	
Lamb mince?						
N	627/637	98.43	595/600	99.17	Reference	
Υ	6/637	0.94	4/600	0.67	1.58	(0.44,6.32)
Lamb offal?						
N	629/637	98.74	600/600	100.00	Reference	
Υ	4/637	62.79	0/600	0	Undefined	
Lamb pate?						
N	633/637	99.37	600/600	100.00	Reference	
Υ	0/637	0	0/600	0	Undefined	
Lamb pieces?						
N	623/636	97.96	578/600	96.33	Reference	
Υ	9/636	1.42	22/600	3.67	0.41	(0.17,0.87)
Lamb Roast?						
N	585/641	91.26	562/600	93.67	Reference	
Υ	52/641	8.11	38/600	6.33	1.2	(0.77,1.88)
Lamb sausage?						
N	627/638	98.28	592/600	98.67	Reference	

	Cases (N=666)		Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	7/638	1.10	8/600	1.33	0.77	(0.27,2.2)
Lamb steak?						
N	628/638	98.43	587/600	97.83	Reference	
Υ	6/638	0.94	13/600	2.17	0.5	(0.17,1.28)
Other type of lamb?						
N	626/638	98.12	595/600	99.17	Reference	
Υ	8/638	1.25	5/600	0.83	1.58	(0.52,5.3)
Did you eat lamb which was pink in the middle?						
N	617/632	97.63	577/600	96.17	Reference	
Υ	15/632	2.37	23/600	3.83	0.64	(0.32,1.25)
Did you eat lamb brought						
Cooked	1/666	0.15	4/600	0.67	0.27	(0.01,1.82)
Fresh	101/666	15.17	93/600	15.50	0.93	(0.68,1.28)
Frozen	14/666	2.10	47/600	7.83	0.24	(0.12,0.43)
Did you cook lamb using a						
BBQ	7/666	1	14/600	2	0.45	(0.17,1.11)
Microwave	1/666	0	0/600	0	Undefined	
Grill	42/666	6	19/600	3	2.12	(1.22,3.79)
Did you eat lamb brought outside the home?						
N	609/650	93.69	569/600	94.83	Reference	
Υ	41/650	6.31	31/600	5.17	1.29	(0.8,2.12)
Did you eat lamb from a						
Fast food/takeaway	14/650	2.15	9/600	1.50	1.55	(0.66,3.78)
Cafe/restaurant	11/650	1.69	15/600	2.50	0.72	(0.31,1.59)
Catered event	2/650	0.31	1/600	0.17	1.58	(0.15,34.7)

	Cases	(N=666)	Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Social BBQ	6/650	0.92	0/600	0		
Other social occasion (e.g. dinner at friends)	7/650	1.08	6/600	1.00	1.09	(0.36,3.47)
Somewhere else	3/650	0.46	2/600	0.33	1.42	(0.23,11.02)
Did you eat pork cooked at home?						
N	467/651	71.74	378/600	63.00	Reference	
Υ	184/651	28.26	222/600	37.00	0.62	(0.49,0.79)
Pork burger?						
N	617/622	99.20	598/600	99.67	Reference	
Υ	1/622	0.16	2/600	0.33	0.47	(0.02,5.00)
Pork chop?						
N	575/625	92.0	542/600	90.33	Reference	
Υ	47/625	7.52	58/600	9.67	0.72	(0.47,1.08)
Pork deli?						
N	599/625	95.84	572/600	95.33	Reference	
Υ	23/625	3.68	28/600	4.67	0.77	(0.43,1.36)
Pork mince?						
N	612/623	98.23	578/600	96.33	Reference	
Y	8/623	1.28	22/600	3.67	0.34	(0.14,0.75)
Pork offal?						
N	616/620	99.35	600/600	100	Reference	
Υ	1/620	0.16	0/600	0	Undefined	
Pork pate?						
N	617/620	99.51	600/600	100	Reference	
Y	0/620	0	0/600	0	Undefined	
Pork pieces?						

	Cases	(N=666)	Controls	(N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
N	601/624	96.31	556/600	92.67	Reference	
Υ	20/624	3.21	44/600	7.33	0.39	(0.22,0.67)
Pork Roast?						
N	580/625	92.8	562/600	93.67	Reference	
Υ	42/625	6.72	38/600	6.33	1.00	(0.63,1.6)
Pork sausage?						
N	608/624	97.44	560/600	93.33	Reference	
Υ	13/624	2.08	40/600	6.67	0.27	(0.14,0.51)
Pork steak?						
N	601/620	96.94	574/600	95.67	Reference	
Υ	16/620	2.58	26/600	4.33	0.54	(0.28,1.01)
Other type of pork?						
N	581/627	92.66	555/600	92.50	Reference	
Υ	43/627	6.86	45/600	7.50	0.89	(0.57,1.38)
Did you eat pork which was pink in the middle?						
N	604/611	98.85	593/600	98.83	Reference	
Υ	7/611	1.15	7/600	1.17	1.00	(0.33,2.99)
Did you eat pork brought						
Cooked	16/666	2.40	30/600	5.00	0.46	(0.24,0.85)
Fresh	117/666	17.57	143/600	23.83	0.63	(0.47,0.83)
Frozen	14/666	2.10	39/600	6.50	0.29	(0.15,0.54)
Did you cook pork using a						
BBQ	10/666	1.50	21/600	3.50	0.42	(0.18,0.88)
Microwave	53/666	7.96	34/600	5.67	1.48	(0.94,2.34)
Grill	2/666	0.30	2/600	0.33	0.91	(0.11,7.73)

	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you eat pork brought outside the home?						
N	566/652	86.81	522/600	87.00	Reference	
Υ	86/652	13.19	78/600	13.00	1.02	(0.73,1.43)
Did you eat pork from a						
Fast food/takeaway	22/652	3.37	25/600	4.17	0.77	(0.42,1.39)
Cafe/restaurant	32/652	4.91	35/600	5.83	0.87	(0.52,1.44)
Catered event	3/652	0.46	2/600	0.33	1.16	(0.19,9.01)
Social BBQ	5/652	0.77	5/600	0.83	0.9	(0.24,3.3)
Other social occasion (e.g. dinner at friends)	13/652	1.99	7/600	1.17	1.74	(0.7,4.72)
Somewhere else	16/652	2.45	5/600	0.83	2.9	(1.11,8.99)
Did you eat a chicken meal/snack with vegetables or fruit?						
N	413/666	62.01	289/600	48.17	Reference	
Υ	253/666	37.99	311/600	51.83	0.52	(0.41,0.66)
Did you eat a chicken meal/snack with vegetables or fruit prepared at						
Home	208/666	31.23	266/600	44.33	0.52	(0.41,0.66)
Fast food/takeaway	49/666	7.36	29/600	4.83	1.39	(0.86,2.28)
Cafe/restaurant	29/666	4.35	25/600	4.17	1.12	(0.64,1.98)
Catered event	4/666	0.60	1/600	0.17	2.9	(0.41,57.67)
Social BBQ	4/666	0.60	2/600	0.33	1.37	(0.26,9.98)
Other social occasion (e.g. dinner at friends)	14/666	2.10	2/600	0.33	5.72	(1.57,36.8)
Did you eat a meat meal/snack that was not chicken with vegetables or fruit?						
N	397/666	59.61	318/600	53.00	Reference	

	Cases (N=666)		Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	269/666	40.39	282/600	47.00	0.67	(0.53,0.85)
Did you eat a meat meal/snack with vegetables/fruit prepared at						
Home	230/666	34.53	248/600	41.33	0.66	(0.52,0.84)
Fast food/takeaway	48/666	7.21	20/600	3.33	1.85	(1.08,3.28)
Cafe/resturant	28/666	4.20	20/600	3.33	1.27	(0.7,2.34)
Catered event	6/666	0.90	0/600	0	Undefined	
Social BBQ	11/666	1.65	5/600	0.83	1.61	(0.57,5.24)
Other social occasion (e.g. dinner at friends)	12/666	1.80	6/600	1	1.7	(0.64,4.99)
Did you eat a vegetarian meal or snack?						
N	187/666	28.08	212/600	35.33	Reference	
Υ	479/666	71.92	388/600	64.67	1.43	(1.12,1.82)
Did you eat a vegetarian meal or snack prepared at						
Home	432/666	64.86	355/600	59.17	1.29	(1.02,1.63)
Fast food/takeaway	33/666	4.95	13/600	2.17	2.19	(1.16,4.39)
Cafe/restaurant	37/666	5.56	19/600	3.17	2.02	(1.15,3.67)
Catered event	7/666	1.05	1/600	0.17	5.59	(0.97,105.26)
Social BBQ	9/666	1.35	5/600	0.83	1.41	(0.48,4.66)
Other social occasion (e.g. dinner at friends)	17/666	2.55	5/600	0.83	2.68	(1.04,8.3)
Somewhere else	38/666	5.71	15/600	2.50	2.05	(1.11,3.94)
Did you eat/drink raw milk products in the last 7 days?						
N	619/652	94.94	579/600	96.50	Reference	
Υ	28/652	4.29	13/600	2.17	1.76	(0.91,3.6)

	Cases	(N=666)	Controls	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you eat or drink raw						
Milk	27/661	4.08	10/592	1.69	2.11	(1.02,4.69)
Yoghurt	1/661	0.15	3/592	0.51	0.32	(0.02,2.52)
Cheese	0/661	0	3/592	0.51	Undefined	
Other product	0/661	0	1/592	0.17	Undefined	
Raw meat or poultry handled in household in the last 7 days						
I handled poultry meat	234/666	35.14	173/600	28.83	1.59	(1.23,2.06)
I handled other meat	211/666	31.68	161/600	26.83	1.38	(1.07,1.80)
I handled pet food	25/666	3.75	62/600	10.33	0.36	(0.22,0.58)
Someone else handled poultry meat	290/666	43.54	202/600	33.67	1.43	(1.12,1.83)
Someone else handled other meat	257/666	38.59	196/600	32.67	1.14	(0.89,1.46)
Did you handle kitchen items which had contact with raw meats or poultry?						
N	317/662	47.89	389/595	65.38	Reference	
Υ	306/662	46.22	200/595	33.61	2.19	(1.7,2.82)
DK	39/662	5.89	6/595	1.01		
Did you handle the following which had contact with raw meats or poultry?						
Knives	294/623	47.19	173/589	29.37	2.58	(1.99,3.35)
Chopping boards	290/623	46.55	177/589	30.05	2.41	(1.86,3.14)
Dish cloths	236/623	37.88	102/589	17.32	3.22	(2.43,4.3)
Plate/dish	243/623	39.00	114/589	19.35	2.94	(2.23,3.89)
Do you use separate chopping boards for raw poultry?						
N	391/656	59.60	383/600	63.83	Reference	

	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	246/656	37.5	216/600	36.00	1.16	(0.91,1.46)
Do you use separate chopping boards for raw meats that aren't poultry?						
N	317/655	48.40	348/600	58.00	Reference	
Υ	318/655	48.55	249/600	41.50	1.43	(1.14,1.81)
Do you use separate chopping boards for all meats?						
N	317/655	48.40	348/600	58.00	Reference	
Υ	318/655	48.55	249/600	41.50	1.43	(1.14,1.81)
Do you use separate chopping boards for vegetables?						
N	201/654	30.73	243/600	40.50	Reference	
Υ	434/654	66.36	355/600	59.17	1.48	(1.17,1.88)
Do you wash your boards between raw meat and other foods?						
N	19/567	3.35	16/535	2.99	Reference	
Υ	526/567	92.77	511/535	95.51	0.88	(0.44,1.76)
DK	22/567	3.88	8/535	1.50		
Do you wash your boards by						
Putting through dishwasher cycle	147/653	22.51	71/576	12.33	0.52	(0.03,3.72)
Rinsing with clean water	15/653	2.30	22/576	3.82	0.18	(0.01,1.38)
Washing with detergent and hot water	471/653	72.13	434/576	75.35	0.26	(0.01,1.85)
Wiping with damp cloth	4/653	0.61	1/576	0.17	Undefined	
Do you rinse raw chicken before cooking?						
N	475/660	71.97	328/600	54.67	Reference	
Υ	130/660	19.70	224/600	37.33	0.42	(0.32,0.55)

	Cases (N=666)	Controls	(N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Don't ever cook chicken	55/660	8.33	48/600	8.00	0.82	(0.54,1.26)
Do you rinse meat that is not chicken?						
N	537/661	81.24	413/600	68.83	Reference	
Υ	78/661	11.80	135/600	22.50	0.45	(0.33,0.62)
Don't ever cook meat that isn't chicken	46/661	6.96	52/600	8.67	0.71	(0.46,1.09)
Do you live or work on a farm or lifestyle block?						
N	492/663	74.21	568/600	94.67	Reference	
Υ	170/663	25.64	32/600	5.33	6.16	(4.13,9.45)
Home/work status?						
Don't live or work on a farm	496/664	74.70	568/600	94.67	Reference	
Live on a farm/lifestyle block	123/664	18.52	19/600	3.17	7.29	(4.49,12.49)
Work on a farm/lifestyle block	16/664	2.41	1/600	0.17	18.34	(3.65,333.68)
Live and work on a farm/lifestyle block	23/664	3.46	11/600	1.83	2.52	(1.21,5.55)
Do you work directly with animals, food, the outdoor environment, healthcare or early childhood centers?						
Yes, animal	62/531	11.67	17/485	3.51	3.71	(2.12,6.81)
Yes, food	26/531	4.90	30/485	6.19	0.81	(0.47,1.41)
Yes, outdoor environment	53/531	9.98	40/485	8.25	1.12	(0.72,1.75)
Yes, healthcare/rest home	20/531	3.77	34/485	7.01	0.62	(0.34,1.10)
Yes, early childhood center	10/531	1.88	8/485	1.65	1.29	(0.50,3.45)
Animals you have contact with at home or work						
Dairy	38/662	5.74	11/600	1.83	2.81	(1.44,5.93)
Meat production	61/662	9.21	20/600	3.33	2.89	(1.7,5.09)
Poultry	44/662	6.65	17/600	3.33	2.12	(1.19,3.93)

	Cases (N=666)		Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Other	67/662	10.12	17/600	3.33	3.7	(2.18,6.6)
Are you in contact with the following dairy animals at home/work?						
Cows	34/662	5.14	9/600	1.50	3.02	(1.47,6.86)
Goats	4/662	0.60	1/600	0.17	2.76	(0.39,54.96)
Sheep	3/662	0.45	2/600	0.33	1.22	(0.2,9.33)
Are you in contact with the following meat production animals at home/work?						
Beef	37/662	5.60	11/600	1.83	3.09	(1.58,6.54)
Sheep	38/662	5.74	11/600	1.83	2.95	(1.5,6.26)
Pig	4/662	0.60	4/600	0.67	0.97	(0.22,4.22)
Cattle	10/662	1.51	3/600	0.50	2.9	(0.87,13.14)
Goat	3/662	0.45	1/600	0.17	2.27	(0.28,46.69)
Are you in contact with the following poultry animals at home/work?						
Domestic poultry	41/662	6.19	16/600	2.67	2.13	(1.18,4.01)
Commercial poultry	1/662	0.15	0/600	0	Undefined	
Poultry processing	1/662	0.15	0/600	0	Undefined	
Other poultry	1/662	0.15	1/600	0.17	0.92	(0.04,23.37)
Have you had any contact with animals?						
N	243/666	36	253/600	42	Reference	
Υ	422/666	63	347/600	58	1.25	(0.99,1.58)
Did you have contact with						
Pets (i.e. dogs, cats, birds)	380/666	57.10	337/600	56.17	1.04	(0.82,1.31)
Chicken	85/666	12.76	21/600	3.50	3.73	(2.29,6.31)

	Cases (N=666) Controls (N			(N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Pigs	10/666	1.50	6/600	1.00	1.45	(0.52,4.38)
Cattle	72/666	10.81	18/600	3.00	3.6	(2.11,6.43)
Sheep	62/666	9.31	18/600	3.00	3.05	(1.79,5.43)
Other	50/666	7.51	30/600	5.00	1.54	(0.96,2.51)
Did you have contact with pets						
At home	341/666	51.20	245/600	40.83	1.57	(1.25,1.98)
Outside the home	61/666	9.16	92/600	15.33	0.53	(0.37,0.75)
Did you have occupational contact with pets?						
N	648/664	97.60	594/600	99.00	Reference	
Υ	16/664	2.41	6/600	1.00	2.42	(0.97,6.88)
Did you have contact with sick pets?						
N	643/664	96.84	587/600	97.83	Reference	
Υ	21/664	3.16	13/600	2.17	1.55	(0.77,3.23)
How long did you have contact with pets?						
No Contact	648/664	97.60	594/600	99.00	Reference	
< 1mth	2/664	0.30	0/600	0	Undefined	
2-3mth	1/664	0	0/600	0	Undefined	
>3-12mth	1/664	0	2/600	0.33	0.38	(0.02,5.20)
>1yr	12/664	1.81	4/600	0.67	3.00	(1,02.10.95)
Did you have contact with chickens						
At home	64/666	9.61	17/600	2.83	3.44	(2.01,6.19)
Outside the home	21/666	3.15	4/600	0.67	3.96	(1.46,13.86)
Did you have occupational contact with chickens?						
N	659/664	99.25	596/600	99.33	Reference	
Υ	5/664	0.15	4/600	0.67	0.96	(0.24,3.98)

	Cases ((N=666)	Control	s (N=600)		
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you have contact with sick chickens?						
N	665/666	99.85	599/600	99.83	Reference	
Υ	1/666	0.15	1/600	0.17	0.78	(0.03,19.85)
How long did you have contact with chicken?						
No Contact	581/586	99	579/583	99	Reference	
>3-12mth	2/586	0	0/583	0	Undefined	
>1yr	3/586	1	4/583	1	0.7	(0.13,3.29)
Did you have contact with pigs						
At home	5/666	0.75	3/600	0.50	1.54	(0.37,7.65)
Outside the home	5/666	0.75	3/600	0.50	1.36	(0.32,6.92)
Did you have occupational contact with pigs?						
N	666/666	100.00	599/600	99.83	Reference	
Υ	0/666	0	1/600	0.17	Undefined	
How long did you have contact with pigs?						
No Contact	656/656	100.00	594/595	99.83	Reference	
>1yr	0/656	0	1/595	0.17	Undefined	
Did you have contact with cattle						
At home	48/666	7.21	10/600	1.67	4.24	(2.17,9.12)
Outside the home	26/666	3.90	8/600	1.33	2.34	(1.07,5.67)
Did you have occupational contact with cattle?						
N	640/665	96.24	593/600	98.83	Reference	
Υ	25/665	3.76	7/600	1.17	2.91	(1.28,7.5)
Did you have contact with sick cattle?						
N	657/664	98.95	600/600	100.00	Reference	
Υ	7/664	1.05	0/600	0	Undefined	

	Cases	(N=666)	Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
How long did you have contact with cattle?						
No Contact	594/618	96.12	582/589	98.81	Reference	
< 1mth	1/618	0.16	0/589	0	Undefined	
2-3mth	2/618	0.32	0/589	0	Undefined	
>3-12mth	6/618	0.97	0/589	0	Undefined	
>1yr	15/618	2.43	7/589	1.19	1.96	(0.8,5.28)
Did you have contact with sheep						
At home	44/666	6.61	12/600	2.00	3.32	(1.77,6.69)
Outside the home	20/666	3.00	6/600	1.00	2.41	(1,6.75)
Did you have occupational contact with sheep?						
N	646/666	97.00	595/600	99.17	Reference	
Υ	20/666	3.00	5/600	0.83	3.09	(1.21,9.48)
Did you have contact with sick sheep?						
N	662/665	99.55	600/600	100	Reference	
Υ	3/665	0.45	0/600	0	Undefined	
How long did you have contact with sheep?						
No Contact	604/624	96.79	582/587	99	Reference	
< 1mth	2/624	0	0/595	0	Undefined	
2-3mth	1/624	0	0/587	0	Undefined	
>3-12mth	3/624	0	0/587	0	Undefined	
>1yr	14/624	2	5/587	1	2.38	(0.88,7.55)
Did you have contact with other animals						
At home	39/666	5.86	19/500	3.17	2.03	(1.16, 3.66)
Outside the home	13/666	1.95	11/600	1.83	0.92	(0.4, 2.15)

	Cases ((N=666)	Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Did you have occupational contact with other animals						
N	662/666	99.40	596/600	99.3		
Υ	4/666	0.60	4/600	0.67	0.79	(0.18, 3.43)
Did you have contact with sick other animals						
N	661/666	99.25	600/600	100		
Υ	5/666	0.75	0/600	0		
Did you use bottled water for drinking?						
N	410/662	61.93	334/600	55.67	Reference	
Υ	237/662	35.80	265/600	44.17	0.73	(0.58,0.93)
DK	15/662	2.27	1/600	0.17		
Is bottled water the only drinking source?						
N	594/646	91.95	531/597	88.94	Reference	
Υ	50/646	7.74	68/597	11.39	0.64	(0.43,0.94)
Does the water to your home come from						
Town supply	458/666	68.77	524/600	87.33	0.33	(0.24,0.44)
Private bore/spring water	28/666	4.20	7/600	1.17	3.33	(1.5,8.46)
Tanker truck	25/666	3.75	13/600	2.17	1.92	(0.97,3.97)
Roof/rain water	172/666	25.83	43/600	7.17	4.44	(3.11,6.44)
Creek/stream water	3/666	0.45	2/600	0.33	1.15	(0.18,8.97)
Other main source	4/666	0.60	4/600	0.67	0.78	(0.18,3.35)
Don't know	9/666	1.35	17/600	2.83	0.45	(0.19,1.02)
Is the private bore water to the home treated or filtered?						
N	643/666	96.55	597/600	99.50	Reference	

	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Υ	18/666	2.70	3/600	0.50	5.13	(1.7,22.22)
Did you drink private bore water to the home which was						
Chlorinated	0/661	0	1/600	0.17	Undefined	
Boiled	1/661	0.15	0/600	0	Undefined	
UV treated	3/661	0.45	1/600	0.17	3.22	(0.39,66.7)
Treated in another way	15/661	2.27	2/600	0.33	5.99	(1.65,38.46)
Is the tanker water to the home treated or filtered?						
N	642/666	96.40	587/600	97.83	Reference	
Υ	22/666	3.30	11/600	1.83	1.97	(0.95,4.34)
Did you drink tanker water to the home which was						
Chlorinated	6/664	0.90	0/598	0	Undefined	
Boiled	0/664	0	0/598	100.00	Undefined	
UV treated	1/664	0.15	0/598	0	Undefined	
Filtered	15/664	2.30	9/598	1.51	1.74	(0.76,4.23)
Treated in another way	2/664	0.30	1/598	0.17	1.82	(0.17,40.58)
Is the roof/rain water to the home treated or filtered?						
N	537/666	80.63	575/600	95.83	Reference	
Y	123/666	18.47	22/600	3.67	5.85	(3.71,9.62)
Did you drink roof/rain water to the home which was						
Chlorinated	3/660	0.45	0/597	0		
Boiled	3/660	045	0/597	0		
UV treated	14/660	2.12	4/597	0.67	3.26	(1.14,11.67)

	Cases (N=666) Controls (N=600)		(N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Filtered	113/660	17.12	18/597	3.02	6.54	(4,11.3)
Treated in another way	3/660	0.45	1/597	0.17	2.83	(0.35,57.95)
Is the creek/stream water to the home treated or filtered?						
N	665/666	99.85	600/600	100.00	Reference	
Υ	1/666	0.15	0/600	0	Undefined	
Did you drink water from an untreated supply you wouldn't normally in the last 7 days? (work, preschool/school)						
N	573/659	87	578/600	96	Reference	
Υ	62/659	9	20/600	3	2.98	(1.78,5.19)
DK	24/659	4	2/600	0		
Did you drink water from the following untreated supplies you wouldn't normally? (work, preschool/school)						
Town supply	2/642	0	1/598	0	1.64	(0.15,36.25)
Private bore/spring water	9/642	1	5/598	1	1.49	(0.5,4.97)
Tanker truck	3/642	0	5/598	1	0.69	(0.14,2.87)
Roof/rain water	36/642	6	5/598	1	6.62	(2.8,19.52)
Creek/stream water	5/642	1	2/598	0	1.79	(0.38,12.67)
Don't know	8/642	1	2/598	0	3.25	(0.79,21.88)
Did you swim in indoor or outdoor pool or spa?						
N	558/665	83.91	515/600	85.83	Reference	
Υ	106/665	15.94	85/600	14.17	1.09	(0.78,1.52)
Did you swim in						
Public swimming pool/spa	69/664	10.39	53/600	8.83	1.13	(0.76,1.67)

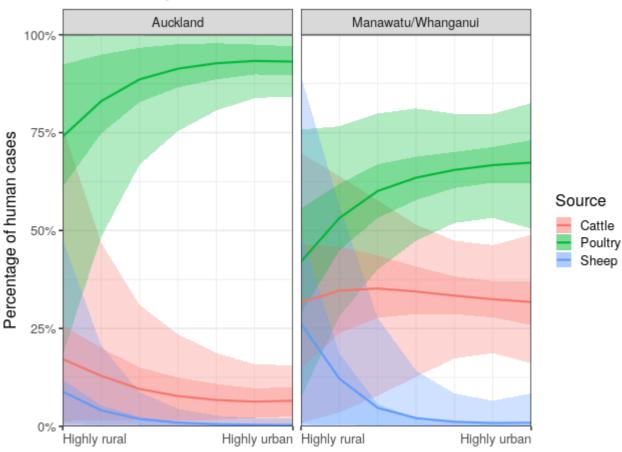
	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
Home swimming pool/spa	23/664	3.46	21/600	3.50	0.9	(0.49,1.68)
Other pool	18/664	2.71	15/600	2.50	1.15	(0.56,2.39)
Did you swim in seawater						
Yes	45/666	6.76	35/600	5.83	1.15	(0.72,1.85)
Yes after heavy rainfall	4/666	0.60	5/600	0.83	0.67	(0.16,2.55)
Yes in an area with livestock	0/666	0	2/600	0.33	Undefined	
No	615/666	92.34	565/600	94.17	0.77	(0.49,1.22)
Did you participate in any other water activities (e.g. sailing, kayaking, fishing)?						
Yes	20/666	3.00	14/600	2.33	1.23	(0.61,2.54)
Yes after heavy rainfall	1/666	0.15	1/600	0.17	0.66	(0.03,17.08)
Yes in an area with livestock	2/666	0.30	0/600	0	Undefined	
No	633/666	95.05	586/600	97.67	0.48	(0.24,0.9)
Did you swim in outdoor freshwater?						
Yes	21/666	3.15	12/600	2.00	1.31	(0.64,2.8)
Yes after heavy rainfall	1/666	0.15	1/600	0.17	0.73	(0.03,18.56)
Yes in an area with livestock	0/666	0	2/600	0.33	Undefined	
No	640/666	96.10	588/600	98.00	0.61	(0.29,1.21)
Did you have contact with compost?						
N	442/657	67.28	503/600	83.83	Reference	
Υ	201/657	30.59	97/600	16.17	2.36	(1.77,3.15)
Did you have contact with human poo?						
N	600/664	90.36	533/600	88.83	Reference	
Υ	52/664	7.83	62/600	10.33	0.74	(0.49,1.11)
Did you have contact with sand?						

	Cases (N=666)		Controls (N=600)			
	Counts	Percent	Counts	Percent	Adjusted Odds Ratio	95% Confidence Interval
N	525/664	79.07	447/600	74.50	Reference	
Υ	133/664	20.03	150/600	25.00	0.66	(0.49,0.88)
Did you have contact with sewage or flood waters?						
N	618/660	93.63	577/600	96.17	Reference	
Υ	34/660	5.15	22/600	3.67	1.31	(0.75,2.33)
Did you have contact with soil?						
N	358/662	54.08	244/600	40.67	Reference	
Υ	294/662	44.41	349/600	58.17	0.48	(0.38,0.61)
Did you have a problem with flies in food preparation areas?						
N	565/664	85.09	488/600	81.33	Reference	
Υ	72/664	10.84	112/600	18.67	0.53	(0.38,0.74)
Do you wash your hands before meals?						
Always	340/657	51.75	202/600	33.67	Reference	
Most of the time	243/657	36.99	213/600	35.50	0.62	(0.48,0.81)
Only if visibly dirty	37/657	5.63	133/600	22.17	0.13	(0.09,0.20)
Occasionally	32/657	4.87	48/600	8.00	0.30	(0.18,0.50)
Never	5/657	0.76	4/600	0.67	0.52	(0.13,2.26)

APPENDIX J: ADDITIONAL ATTRIBUTION

Figure 20. Source assigned cases, modelled attribution according to the rurality scale, by region

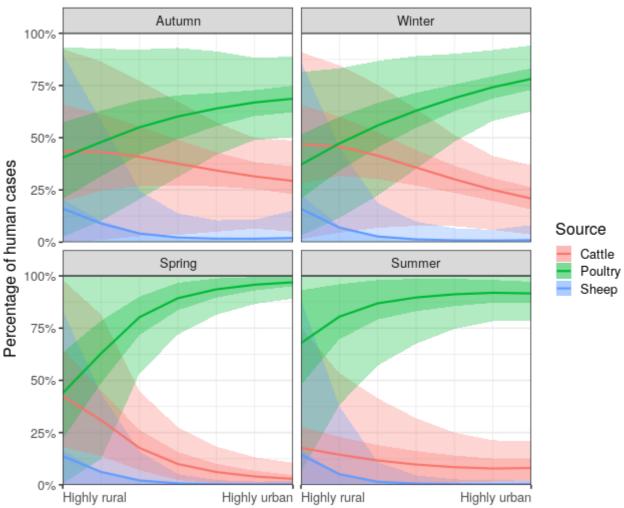
Attribution by location and urban/rural scale 2015



Note: For the line the wider band is 95% credible interval, darker band is 50% credible interval, and line is posterior median

Figure 21. Source assigned cases, modelled attribution according to the rurality scale, by season

Attribution by season and urban/rural scale 2015



Note: For the line the wider band is 95% credible interval, darker band is 50% credible interval, and line is posterior median

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