

Appendices

Appendix 1: Definitions and glossary of terms

Acceptable Daily Intake (ADI) – The ADI for humans is defined as an estimate of the amount of a chemical that can be ingested daily over a lifetime without appreciable risk to health (WHO 2009a).

ADIs are set using information obtained from toxicological studies, including data from studies on various laboratory animals. From these studies, a No Observable Effect Level (NOEL) is established. The NOEL is the highest dose level that produces no observable toxic effect in the most sensitive test species and is expressed in milligrams per kilogram of body weight per day.

The ADI is derived by applying a safety factor to the NOEL. The safety factor takes into consideration the nature of the effect, differences between laboratory test animals and humans, and genetic variation in the human population. If any information on exposure in humans is available, usually from short to mid-term, this will be used to set the ADI. The unit for the ADI is milligrams per kilogram of body weight per day.

The ADIs for agricultural and veterinary chemicals, as set by the Office of Chemical Safety, were used in this survey. The ADIs used in this report are listed in Table A14.1 of Appendix 14. The body masses used for each age-gender category to compare the ADIs with the estimated daily intakes are listed in Appendix 8.

Adequate Intake (AI) – The AI is the average daily nutrient intake level based on observed or experimentally determined approximations or estimates of nutrient intake by group/s of apparently healthy people that are assumed to be adequate. AIs are set when there is insufficient evidence to set an EAR (NHMRC 2006).

Consumer – A respondent in a National Nutrition Survey who reports consuming a particular food within the previous 24 hours.

Estimated Average Requirement (EAR) – The EAR is a daily nutrient level estimated to meet the requirements of half the healthy individuals in a particular life stage and gender group used to assess population intakes (NHMRC, 2006).

Exposure – The amount of an agricultural or veterinary residue or contaminant that is ingested by a person as part of the diet (via food, beverages and drinking water).

Intake – The amount of a nutrient that is ingested by a person as part of the diet (via food, beverages and drinking water).

Limit of Detection (LOD) – The LOD is the lowest concentration of a specific chemical that can be qualitatively detected using a specified laboratory method and/or item of laboratory equipment (i.e. its presence can be detected but not quantified).

Limit of Quantification (LOQ) – The LOQ is the lowest concentration of a specific chemical that can be detected and quantified, with an acceptable degree of certainty, using a specified analytical method and/or item of laboratory equipment.

Limit of Reporting (LOR) – The LOR is the lowest concentration level that the laboratory reports analytical results.

Maximum Residue Limit (MRL) – The MRL is the highest concentration of a chemical residue that is legally permitted or accepted in a food or animal feed based on Good Agricultural Practices. Food and animal feed complying with respective MRLs are considered to be safe for consumption. However, exceedance of an MRL by any single food commodity does not necessarily mean that the food is unsafe because the contribution to exposure by the food must be seen in the context of contributions to exposure by other foods in the diet.

Although MRLs are not direct health measures, the toxicology of the chemical is taken into consideration when setting the MRLs. Note that for a pesticide, MRLs will vary among the various crops for which it is approved because of factors relating to the nature of the crop, including different Good Agricultural Practices. MRLs are not recommended and the use of a pesticide not approved where the resulting residues from all foods may lead to exposures exceeding the ADI.

Generally, specific MRLs are not set for processed foods because MRLs are enforced on raw commodities. For foods such as vegetables, fruits, meat and fish that undergo little processing before consumption, the MRL for the commodity can suffice for the food as consumed. In the case of a mixed food, the applicable MRL is calculated from the combined proportionate quantities of the ingredients of the mixed food and the MRLs that apply to these ingredients.

The MRLs allowed for residues in foods sold in Australia are listed in the Food Standards Code.

Margin of Exposure (MOE) - Ratio of the No Observed Effect Level (NOEL) or benchmark dose lower confidence limit (BMDL) for the critical effect to the theoretical, predicted or estimated exposure. The calculation usually involves a reference point value (also called a point of departure) derived from the hazard assessment that is then divided by an estimate of human dietary exposure to give a dimensionless ratio that is the MOE.

Mean – Arithmetic mean.

National foods – Those foods that are distributed nationwide and therefore not expected to show regional variation, such as breakfast cereals, tea, coffee, soft drink and canned fruit.

Provisional Maximum Tolerable Daily Intake (PMTDI) – A PMTDI is a reference value established to indicate a safe level of intake of a contaminant in food which is not known to accumulate in the body (WHO, 2009a).

The PMTDIs used in this report are listed in Table A15.1 of Appendix 15.

Provisional Tolerable Daily Intakes (PTDI) and Provisional Tolerable Weekly Intakes (PTWI) – The PTDI/PTWI are permissible human daily/weekly exposures to those contaminants unavoidable associated with the consumption of otherwise wholesome and nutritious food (WHO 2001c).

The tolerable intake is referred to as “provisional” as there is often a lack of data on the consequences of human exposure at low levels and new data may result in changes to the tolerable intake.

The method for calculating a PTDI/PTWI for a contaminant is similar to that used for calculating an ADI for a pesticide. A No Observable Effect Level (NOEL) is set and the PTDI/PTWI is derived from the NOEL using a safety factor. In many cases, there is human epidemiological information, usually occupational exposure data, on which NOELs can be based. Because NOELs are generally based on human data, a lower safety factor than commonly used for food additives is therefore normally applied.

Tolerable levels are recommended by the Joint FAO/WHO Expert Committee on Food Additives.

The PTDIs and PTWIs used in this report are listed in Table A15.1 of Appendix 15.

Provisional Tolerable Monthly Intake – A PTMI is an end-point value which provides an indication of the amount of chemical that can be consumed on a monthly basis without appreciable risk. PTMIs are established for contaminants in food which are known to accumulate in the body (WHO, 2009a).

The PTMIs used in this report are listed in Table A15.1 of Appendix 15.

Regional foods – Those foods that may be expected to show regional variation of residue, contaminant or nutrient levels. These foods included fresh fruit and vegetables, red meat, chicken, eggs, bread and other bakery goods, wine and some dairy foods.

Respondent – Any person included in a NNS, irrespective of whether they are reported consuming a particular food of interest or not.

Upper Level of Intake (UL) – The UL is the highest average daily nutrient intake level likely to pose no adverse health effects to almost all individuals in the general population. As intake increases above the UL, the potential risk of adverse effects increases (NHMRC 2006).

Appendix 2: Foods sampled in the 23rd ATDS

Alcoholic beverages

Beer, full strength (N)

Wine, red (R)

Wine, white (R)

Beverages

Coffee, espresso (N)

Coffee, instant (N)

Juice, fruit (N)

Soft Drink (N)

Soy Beverage, full fat (N)

Tea (N)

Water, bottled, still (N)

Water, tap (R)

Cereal and cereal products

Biscuits, savoury (N)

Biscuits, sweet, plain (N)

Bread, fancy (R)

Bread, multigrain (R)

Bread, white (R)

Breakfast cereals, mixed grains (N)

Breakfast cereals, single grain (N)

Cake, chocolate, iced (N)

Oats, rolled (N)

Pasta (N)

Rice, white, long grain (N)

Condiments

Sauce, tomato (N)

Savoury sauce, non tomato (N)

Dairy

Cheese, cheddar, full fat (R)

Ice cream, full fat, vanilla (N)

Milk, full fat (R)

Yogurt, fruit, full fat (R)

Eggs

Eggs (R)

Fats and oils

Butter (N)

Margarine, monounsaturated (N)

Oil, canola and olive (N)

Fruit

Apples (R)

Bananas (R)

Coconut, desiccated (N)

Dried apricots (N)

Grapes (R)

Kiwifruit (R)

Mango (N)

Nectarine (R)

Orange (R)

Peach, natural juice (N)

Pear, natural juice (N)

Pineapple, canned in natural juice (N)

Strawberries (R)

Sultanas (N)

Tomatoes, canned (N)

Tomatoes, raw (R)

Watermelon (R)

Infant food and beverages

Infant cereal, mixed (N)

Infant dessert, milk based (N)

Infant dinner (N)

Infant formula (N)

Meat and meat products

Bacon (N)

Beef, minced, lean (R)

Chicken breast (R)

Chicken mince (R)

Ham, sliced delicatessen style (N)

Lamb chops, loin (R)

Liver pate (chicken) (N)

Sausages, beef (R)

Nuts and legumes

Almonds (N)

Baked Beans in tomato sauce (N)

Peanut butter (N)

Seafood/seafood products

Fish fillets, battered from takeaway (R)

Fish portions, frozen from supermarket (N)

Prawns, cooked (R)

Tuna, canned in brine (N)

Snack foods

Potato Crisps (N)

Sugar/Confectionary

Chocolate, milk (N)

Honey (N)

Sugar, white (N)

Takeaway/fast food

Hamburger (R)

Pie, meat, individual size (N)

Pizza, meat and vege topping (N)

Vegetables

Avocados (R)

Beans, green, raw (R)

Beetroot, canned (N)

Broccoli (R)

Cabbage (R)

Capsicum (R)

Carrots (R)

Cauliflower (R)

Celery (R)

Cucumber (R)

Lettuce (R)

Mushrooms (R)

Onions (R)

Peas, frozen (N)

Potato (R)

Pumpkin (R)

Sweetcorn, kernels, frozen (N)

Notes:

• N = National Food. Three retail samples make up each composite sample, 8-12 composite samples of each food.

• R = Regional Food. Three retail samples make up each composite sample, 4 composite samples of each food.

Appendix 3: Food preparation instructions

GENERAL INSTRUCTIONS:

Boiling water

Except where other instructions are provided, 'boiling water' means that the food is to be boiled in 'unsalted' tap water.

Washing

Foods are to be washed in accordance with local practice and the food concerned.

Mix

When the preparation instruction states 'mix' or 'mix thoroughly', then the sample should be pureed in a laboratory grade mixer or ground finely by hand until the sample is homogenous and comprises only very fine particles. Liquids such as milk or soft drink can simply be stirred in a glass or stainless steel vessel. Do not allow mixed samples to sit and potentially separate out before decanting into the sample container.

Cooking, Frying, Grilling

In the case of samples of meat, it is imperative that typical cooking behaviour be followed. For example, meat that is fried will exude fat. As the fried food is removed from the fry pan some fat will remain in the fry pan and some will remain on the cooked meat product. The fat remaining in the fry pan is to be discarded and only the fat on the cooked food is to be included for analysis.

Microwaving

The time required for microwaving will depend upon the power of the microwave. Broccoli, beans, peas and spinach are required to be cooked by microwave. The following procedure is proposed:

1. Place 900 grams of broccoli, peas, beans or spinach into a glass/ pyrex cooking dish that has a fitted lid and add one third of a cup of water.
2. Place in 650-Watt microwave on high power setting for 7 minutes. Higher power microwaves should have the setting adjusted to medium or the time of cooking reduced as necessary. It may also be necessary to stir the vegetables during cooking to ensure even heat distribution.
3. Remove from microwave and allow to cool before handling.

Gloves

Gloves are to be worn whenever the food being prepared could come into contact with hands.

The food preparation gloves to be used such as Ansell latex gloves (subject to allergy concerns) or nitrile not containing lubricant.

Equipment

- Stainless steel knives
- Wooden cutting board (good quality, smooth, crack free)
- Stainless steel utensils (i.e. fry pans, spatulas, etc.).
- Glass/Pyrex equipment can also be used.
- For the purposes of mixing liquids, a large stainless steel or Pyrex receptacle such as a jug or bowl is to be used.
- Laboratory mixer with stainless steel or glass vessel.
- Laboratory grade storage containers suitable for long term freezing without leaching.
- Plastic bags for enclosing sample containers.

Washing of Equipment

The analytical laboratory or preparation facility is to determine the detergent to be used in the washing of food preparation equipment. The detergent chosen should not interfere with the analyses for the analytes of interest.

Handling Purchases in Food Preparation Facility

Each purchase as provided by the purchasing officer should arrive in separate packaging. Purchases from each jurisdiction will be in lots of three. Each purchase will represent a primary sample. Unprocessed, raw foods such as steak and chicken fillets will be in separate packages clearly labelled with the name of the food and date of purchase. Manufactured packaged foods will be labelled clearly with the date of purchase.

Keeping Samples Separate

Care must be taken to ensure no mixing between the three groups of samples. This means careful cleaning of utensils between the three preparation procedures. To ensure accuracy and to keep food samples separate, the procedure for preparing one sample in readiness for analysis should be completed and all utensils cleaned thoroughly before the preparation of the next sample is started.

Table A3.1 – Food preparation instructions

Food	Preparation Instructions
Apples	Remove core and stem (do not peel)
Avocados	Remove peel and stone and any black bits
Bacon	Remove rind and dry fry
Baked beans	Include sauce
Bananas	Remove skin
Beans, green	Top and tail, remove string if necessary and microwave until just cooked
Beef, minced	Dry fry until thoroughly browned, do not scrape pan
Beetroot, canned	Drain and discard liquid
Bread (all)	Include a proportional quantity of crust
Broccoli	Remove stalk and microwave
Cabbage	Remove outer leaves and boil in unsalted tap water
Cake, chocolate iced	Include a proportional quantity of icing
Capsicum	Remove core, stalk and seeds
Carrots	Top and tail, rinse if unblemished, otherwise peel and remove blemishes. Boil in unsalted tap water
Cauliflower	Remove stalk and leaves, chop and microwave
Celery	Trim off leaves and base of stalk
Chicken breast	Grill and discard fat in grill tray
Chicken mince	Dry fry, do not scrape pan
Coffee, instant	Make up as directed on label using tap water
Cucumber	Top and tail
Eggs	Hard boil in unsalted tap water and remove shell
Fish portions, frozen from supermarket	Bake according to the instructions on the packaging
Grapes	Remove stalks
Infant cereal, mixed	Prepare in accordance with the instructions on the label

Food	Preparation Instructions
Infant formula	Make up using tap water according to manufacturer's directions
Kiwifruit	Remove peel
Lamb chops, loin	Grill. When cooked, cut all the meat away from the bone and trim off excess fat. Discard the fat in the grill tray
Lettuce	Remove any shrivelled outer leaves and roots and rinse
Mango	Remove skin and stone
Mushrooms	Wash and wipe dry with paper towel
Nectarine, fresh	Remove stone. Do not peel
Oats, rolled	Add 600ml tap water per 100g oats. Simmer until cooked. Cool
Onions	Remove peel
Oranges	Remove peel
Pasta	Boil in tap water according to the instructions on the packaging (do not add salt)
Peaches, canned in natural juice	Include a representative proportion of juice
Pears, shelf stable in natural juice	Include a representative proportion of juice
Peas, frozen	Microwave, discard liquid
Pie, meat	If uncooked, bake according to instructions and cool
Pineapple, canned	Include a representative proportion of juice
Pizza, meat and vegetable topped	If uncooked, cook according to instructions and cool
Potatoes	Wash, peel and boil in unsalted tap water
Prawns, cooked	Remove shell (if necessary) and devein if very large
Pumpkin	Wash thoroughly, leave unpeeled and boil in unsalted tap water. When cooked, remove the skin and seeds
Rice, white, long grain	Boil in tap water according to the instructions on the packaging (do not add salt)
Sausages, beef	Dry fry, discard fat in pan

Food	Preparation Instructions
Strawberries	Wash and remove leaves and stalks
Sweetcorn kernels, frozen	Microwave, discard liquid
Tea	Brew using one teabag per 250 mls of tap water. Wait 5 minutes for the tea to infuse. Do not add milk
Tomatoes, canned	Include a representative proportion of juice
Tuna, canned in brine	Drain
Watermelon	Remove skin and seeds

Appendix 4: Summary of Analytical Methods – Agricultural and veterinary chemicals

Table A4.1 – Analytical methods used and limits of reporting

Analyte screen	Analytical Method [^]	Limit of reporting [†] (mg/kg)
Organochlorine pesticides, organophosphorus pesticides, synthetic pyrethroid pesticides, carbamates, fungicide residues, herbicide residues, acaracide and IGR residues and PCBs	Homogenised food samples were mixed with acetonitrile/water. Pesticide residues were extracted into acetonitrile phase by salting out with dry magnesium sulphate. Acetonitrile extract is then further cleaned up by dispersing SPE with PSA sorbent or passing through a serial of SPE cartridges. Chemical residues in clean-up extract were determined by Gas/Liquid chromatography with MS detector and where appropriate confirmed by ECD/NPD/PFPD detections.	<0.005 - <0.1
Antimicrobial residues	A measured portion of blended food was dispersed into EDTA McIlvaine buffer and subsequently extracted with acetonitrile. The extract was concentrated and reconstituted in mobile phase, then filtered for LC/MS analysis. Quantitative and confirmatory analysis was performed using HPLC-MS/MS.	<0.0003-<0.005
AMPA, glufosinate, glyphosate	Glyphosate and related residues were extracted from plant material by sonication in an aqueous solution. Extracted residue was then derivatised by FMOC (9-fluorenylmethyl chloroformate) in borate buffer. Quantitative and confirmatory analysis was performed simultaneously by LC/MS/MS using external calibration	<0.01-<0.05

Analyte screen	Analytical Method [^]	Limit of reporting [†] (mg/kg)
Dithiocarbamates	Dithiocarbamates are analysed as a family by decomposing them using acidified stannous chloride. The carbon disulfide released is determined by an internal standard procedure using head-space gas chromatography and a sulfur-specific flame photometric detector.	<0.1

Note: For the agricultural and veterinary chemicals analysed, the limit of detection (LOD) is equal to the LOR in most instances. For some agricultural and veterinary chemicals, the LOR is equal to two times the LOD or five times the LOD depending on the matrix analysed.

[†] The limit of reporting (LOR) varies and is dependent on the type of food matrix tested. The values presented in the table above are the range for each analyte for the food types analysed.

[^] The descriptions of the analytical methods have been provided by Symbio Alliance.

Appendix 5: Summary of Analytical Methods – Contaminants

Table A5.1 – Analytical methods used and limits of reporting

Analyte	Analytical method [^]	Limit of reporting [†] (mg/kg)
Aflatoxins	Extraction into methanol/water. Quantitative and confirmatory analysis was performed using HPLC-MS/MS.	<1-<2
Aluminium	Microwave digestion with ultra pure nitric acid and determined by ICP-AES.	0.01-1
Total arsenic	Microwave digestion with ultra pure nitric acid and determined by ICP-MS.	0.0005-0.025
Inorganic arsenic		<0.05*
Cadmium		0.0001-0.005
Lead		0.0001-0.005
Strontium		0.001-0.1
Total mercury	Total mercury: Sample was digested by microwave digester with ultra pure nitric acid and determined by ICP-MS.	0.025 [†]
Methylmercury and inorganic mercury	Freeze-dried sample was digested by enzyme in buffer solution. Separation and quantitation of mercury species in enzyme extract was performed by ion chromatography followed by the determination by ICP/MS.	

Note: For all contaminants, the limit of detection (LOD) is equal to the LOR.

[†] The LOR varies and is dependent on the type of food matrix tested. The values presented in the table above are the range for each analyte for the food types analysed.

[^] The descriptions of the analytical methods have been provided by Symbio Alliance.

* Inorganic arsenic, methylmercury and inorganic mercury were only analysed for in some fish and shellfish matrices.

Appendix 6: Summary of Analytical Methods – Nutrients

Table A6.1 – Analytical methods used and limits of reporting

Analyte	Analytical method [^]	Limit of reporting [†] (mg/kg)
Calcium	Microwave digestion with ultra pure nitric acid and determined by ICP-AES.	0.1-10
Iron		0.01-1
Potassium		0.2-20
Chromium	Microwave digestion with ultra pure nitric acid and determined by ICP-AES and ICP- MS.	0.0005-0.025
Cobalt		0.0001-0.005
Copper		0.0005-0.025
Manganese		0.0005-0.025
Molybdenum		0.0001-0.005
Selenium		0.0005-0.025
Zinc		0.0005-0.025
Fluoride		Samples were mixed with calcium hydroxide solution in crucibles and dried at 80°C overnight. Once dried, samples were ashed for five hours at 600°C. Ashed material was acidified and diluted to appropriate volume. Fluoride content was quantified using a fluoride selective probe.

Note: For all nutrients, the limit of detection (LOD) is equal to the LOR.

[†] The limit of reporting varies and is dependent on the type of food matrix tested. The values presented in the table above are the range for each analyte for the food types analysed.

[^] The descriptions of the analytical methods have been provided by Symbio Alliance.

Appendix 7: Agricultural and veterinary chemicals, contaminants and nutrients tested for in the 23rd ATDS

Table A7.1 – Agricultural and veterinary residues tested for in the 23rd ATDS

* Denotes substances that were not detected in all foods analysed

Carbamates	p,p Dicofol
Aldicarb	Dieldrin
Carbaryl	Endrin*
Carbofuran*	Endosulfan-alpha
Fenoxycarb*	Endosulfan-beta
Methomyl	Endosulfan sulphate
Pirimicarb*	Heptachlor*
Thiodicarb*	Oxychlorane*
	Pentachloroaniline*
Chlorinated Organic Pesticides	Pentachlorophenyl Methyl*
Acetamiprid*	Tetradifon*
Aldrin*	
Alpha-HCH*	Fungicides
Beta-HCH*	2-Phenylphenol
Delta-HCH*	Azoxystrobin
Lindane*	Benalaxyl*
Chlordane (cis/trans)*	Bitertanol*
o,p DDD*	Boscalid
o,p DDE*	Bupirimate*
o,p DDT*	Captafol*
p,p DDD*	Captan
p,p DDE*	Carbendazim
p,p DDT*	Chlorothalonil

Cyproconazole*

Cyprodinil*

Dichlofluanid*

Dicloran*

Difenoconazole*

Dimethomorph*

Diphenylamine

Dithiocarbamate as CS2

Fenarimol*

Fludioxonil*

Flusilazole*

Flutriafol*

Guazatine

HCB*

Hexaconazole*

Imazalil

Iprodione

Kresoxim Methyl*

Metalaxyl*

Myclobutanil

Paclobutrazol*

Penconazole*

Prochloraz

Procymidone

Propiconazole*

Pyrimethanil

Quintozene*

Tebuconazole*

Toclophos Methyl*

Triadimefon*

Triadimenol*

Uniconazole*

Vinclozolin*

Herbicides

2,4-D

Alachlor*

Ametryn*

Amitrole*

Atrazine*

Bromoxynil*

Butoxydim

Carfentrazone-ethyl*

Chlormequat*

Chlorpropham

Chlorsulfuron*

Chlorthal Dimethyl*

Clethodim*

Clodinafop-propargyl*

Clopyralid*

Dicamba*

Dicolfop-methyl*

Diflufenican*

Diquat*

Diuron*

Ethephon*

Fenoprop*
Fenoxaprop-P-ethyl*
Flamprop-M-methyl*
Fluazifop (FA)*
Fluroxypyr*
Glufosinate*
Glyphosate
Haloxypop
Hexazinone*
Iodosulfuron-methyl
Isoproturon*
Linuron*
MCPA*
Methabenzthiazuron*
Metolachlor*
Metosulam*
Metosulfuron-methyl*
Metribuzin*
Oxyfluorfen*
Paraquat*
Pendimethalin*
Picloram*
Propyzamide*
Sethoxydim*
Simazine*
Tebuthiuron*
Tebutryn
Tralkoxydim*

Triasulfuron*
Triclopyr
Trifluralin*

Organophosphorus pesticides

Acephate*
Azamethiphos*
Azinphos-ethyl*
Azinphos-methyl*
Bromophos-ethyl*
Carbophenothion*
Cadusafos*
Chlorfenapyr*
Chlorfenvinphos (cis/tran)*
Chlorpyrifos
Chlorpyrifos-methyl
Coumaphos*
Demeton-S-methyl*
Diazinon*
Dichlorvos*
Dimethoate
Ethion*
Ethoprophos*
Fenamiphos*
Fenchlorphos*
Fenitrothion
Fenthion*
Heptachlor epoxide*

Malathion*
Methacrifos*
Methamidophos
Methidathion*
Mevinphos*
Monocrotophos*
Omethoate
Parathion*
Parathion-methyl*
Phorate*
Phosalone*
Phosmet*
Pirimiphos-methyl
Profenofos*
Prothiofos*
Terbufos*
Trichlorfon*
Vamidothion*

Synthetic pyrethroids

Allethrin
Bifenthrin
Bioresmethrin*
Cyfluthrin*
Cyhalothrin*
Cypermethrin*
Deltamethrin*
Fenvalerate*

Flumethrin*
Permethrin
Phenothrin*

Synergist

Piperonyl butoxide*

Other

AMPA*
Bromopropylate*
Buprofezin*
Clofentezine*
Demeton-S-methyl sulfoxide*
Demeton-S-methyl sulphone*
Diflubenzuron*
Disulfoton*
Famphur*
Fenbutatin Oxide
Fipronil*
Fipronil Sulfenyl*
Fipronil Sulphone*
Fipronil Trifluoromethyl*
Fluvalinate-tau*
Fonofos*
Hexythiazole*
Imidacloprid
Indoxacarb*
Methoprene*

Methoxychlor*	Pyriproxyfen*
Mirex*	Spinosad
PCB 1254*	Tebufenpyrad
PCB 1260*	Triflumuron*
Propargite	

Table A7.2 – Contaminants tested for in the 23rd ATDS

Aluminium	Inorganic mercury
Arsenic (total)	Methylmercury
Arsenic (inorganic)	Strontium
Cadmium	Vanadium
Lead	
Mercury (total)	

Table A7.3 – Nutrients tested for in the 23rd ATDS

Calcium	Iron
Chromium	Manganese
Cobalt	Molybdenum
Copper	Potassium
Fluoride	Selenium
Zinc	

Appendix 8: Estimating dietary exposures

How the dietary modelling was conducted

To estimate dietary exposure, the amount of a particular chemical in each food is multiplied by the amount of food consumed and summed over all foods (Equation 1).

Equation 1: Dietary exposure calculation

$$\text{Dietary Exposure} = \text{food chemical concentration} \times \text{food consumption amount}$$

For the 23rd ATDS, dietary modelling was conducted using the computer program DIAMOND (Dietary Modelling of Nutritional Data), which was designed to automate dietary exposure calculations. DIAMOND multiplied the chemical concentration for each food consumed in national nutrition surveys with the amount of that food that each survey respondent consumed to estimate each individual's exposure to that chemical from each food. Once this had been completed for all foods determined as containing a particular chemical, the total amount of the chemical consumed from all foods was summed for each individual. Population statistics (e.g. mean and 90th percentile exposures) for each age-gender group were derived from the individual ranked exposures.

The use of DIAMOND for dietary modelling brings many benefits. DIAMOND enables the dietary exposure assessments to be conducted using actual diets, as recorded in national nutrition surveys, in place of the 'average' diets which were used prior to the 19th ATDS. This means that dietary exposure is calculated for each individual in the survey before mean dietary exposure results are derived for each age-gender group. The use of specific food consumption data greatly improves the reliability and accuracy of the dietary exposure estimates and takes account of the different eating patterns of consumers.

Once dietary exposure to the chemical from the total diet had been estimated, this is compared to relevant reference health standards to assess the potential risk to human health. The comparison of the estimated dietary exposures with reference health standards is discussed in further detail from page 28 of the report.

Population groups assessed

Dietary exposures to agricultural and veterinary chemicals and contaminants were estimated for:

- 9 month old infants
- children aged 2-5 years
- children aged 6-12 years
- children aged 13-16 years
- general population 17 years and above

Dietary exposure assessments were conducted for children as they generally have higher exposures because they consume more food on a kilogram body weight basis compared to adults. Table A8.1 shows the number of individuals in each age group assessed.

Table A8.1: Number of respondents and average body weight for each age group assessed for agricultural and veterinary residues and contaminants

Age	No. Of Respondents	Average Body Weight (kg)
9 months		8.9
2-5 years [▫]	1,178	18
6-12 years [▫]	2,090	36
13-16 years [▫]	1,219	61
17 years & above*	11,129	74

* derived using the Australian 1995 National Nutrition Survey

▫ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey

The population groups assessed for nutrients differed to those for agricultural and veterinary chemicals and contaminants. For nutrients, the population groups assessed were:

- 9 month old infants
- children aged 2-3 years (males and females)
- children aged 4-8 years (males and females)
- children aged 9-13 years (males and females)
- children aged 14-16 years (males and females)
- 17-18 years (males and females)
- 19-29 years (males and females)
- 30-49 years (males and females)
- 50-69 years (males and females)
- 70 years and above (males and females)

Table A8.2 shows the number of individuals in each age group assessed.

These population groups correlate with reference health standards for ages 1 to 18 years, except that children aged 1 year were not assessed. The 1995 Australian National Nutrition Survey (1995 NNS) only reported an adult's age in five year increments above 19 years of age (e.g. 20-24 years, 25-29 years etc). Therefore the cut-points between age groups in the 1995 NNS do not correlate with the age cut-points assigned to the reference health standards for nutrients (e.g. 19-30 years, 31-50 years etc). For the purposes of dietary modelling, respondents were assigned the midpoint of the 1995 NNS range (e.g. for the age range 20-24, respondents were assigned the age of 22, and so on). Using this approach, the reference health standard used for a 22 year old would be the one assigned to the 19-30 year age category.

Table A8.2: Number of respondents and average body weight for each age-gender group assessed for nutrients

Age	Gender	No. Of Respondents	Average Body Weight (kg)
9 months			8.9
2-3 years€	Male	278	16
	Female	275	15
4-8 years€	Male	779	24
	Female	741	24
9-13 years€	Male	763	44
	Female	730	46
14-16 years€	Male	472	65
	Female	449	60
17-18 years*	Male	130	74
	Female	148	62
19-29 years*	Male	1,014	80
	Female	1,189	65
30-49 years*	Male	2,080	84
	Female	2,317	68
50-69 years*	Male	1,442	83
	Female	1,577	70
70 years & above*	Male	545	77
	Female	687	65

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

Food consumption data

The dietary exposure assessment uses food consumption data from two Australian National Nutrition Surveys: the 2007 Australian Children's Nutrition and Physical Activity Survey (2007 NNS) for children aged 2-16 years, and the 1995 NNS for those aged 17 years and above.

In the 1995 NNS, most respondents completed only one 24-hour recall. In contrast, in the 2007 NNS, all respondents completed two 24-hour recalls. The different survey design has some implications for interpreting the dietary exposure assessments reported in this ATDS for agricultural and veterinary chemicals and contaminants. Where a chemical is present in only a small number of foods, using two 24-hour recalls will give a more realistic estimate of long-term dietary exposure, particularly long-term high exposure. In general, using two 24-hour recalls leads to an increased number of consumers of a food and higher estimates of dietary exposure to that chemical.

The 2007 NNS was conducted over a seven month time period, from February to August 2007, which means that foods largely available only in summer will not be fully represented. This may have a minor effect on estimations of dietary exposure to chemicals found in spring and summer fruits and vegetables.

Sampling weights are only applied in DIAMOND to the data from the 2007 NNS as this survey used survey techniques that deliberately over-sampled some sectors of the population. Data from the 1995 NNS are unweighted. The lack of use of sampling weights with the 1995 NNS is not expected to have a significant effect on the dietary exposure estimates from this survey as the survey sample was broadly reflective of the overall Australian population at that time.

Neither the 1995 NNS nor the 2007 NNS examined children aged below two years of age. Therefore a model diet was constructed to allow the dietary exposure assessments to be conducted for infants aged nine months.

Construction of the model diet for 9 month old infants

By the age of 9 months, most infants will be consuming a mixed diet and will be exposed to food chemicals from a range of foods in addition to human breast milk or infant formula. To enable food chemical exposures for 9 month old infants to be estimated, a model diet was constructed (Appendix 12). The model diet was based on recommended energy intakes, mean body weight and the proportion of milk and solid foods in the diet for a 9 month old infant, and 2007 NNS data on foods consumed by a two year old child. The recommended energy intake for a 9 month old boy (FAO, 2004) at the 50th percentile weight (WHO, 2007a) was used as the basis for the model diet. Boys' weights were used as boys tend to be heavier than girls at the same age and therefore have higher energy and food requirements. The body weight of a 50th percentile 9 month old boy was 8.9 kg.

It was assumed that 50% of energy intake was derived from infant formula and 50% from solids and other fluids (Hitchcock *et al.*, 1986). The patterns of consumption of a two year old child from the 2007 NNS survey were scaled down and used to determine the 50% solid and other fluids portion of the 9 month old infants diet. Certain foods such as nuts, tea, coffee and alcohol, were removed from the diet since nuts are not recommended for infants because of choking risk (NHMRC, 2001) and coffee and alcohol are unsuitable for infant consumption (ACT Community Care, 2000). Consumption of breakfast cereals was assumed to be in the form of either infant cereal or a single grain breakfast cereal. The mixed grain breakfast cereals that were sampled in this survey included light muesli products and bran based cereals. Bran is not recommended in the diet of infants due to the potential interference with the absorption of minerals (The Children's Hospital at Westmead, 2008) and to the immaturity of the infant gut (H.J Heinz, 2010a). Consequently, mixed grain breakfast cereals were excluded from the model infant diet. Since cow's milk is not recommended as the main milk source for children aged less than 12 months of age (H.J

Heinz, 2010b; NHMRC, 2003), all milk consumption was assumed to be in the form of infant formula.

As the model diet is based on mean food consumption amounts only, a distribution of food consumption could not be derived and hence, a distribution of food chemical exposures was used instead. The 90th percentile dietary exposure to agricultural and veterinary chemical residues and contaminants and the 95th percentile intakes for nutrients were estimated using the equations shown in Table A8.3. For nutrients, the ratio between the mean and the 95th percentile intakes for the other age-gender groups (a ratio of around 1:2) was used to estimate the 95th percentile intakes for infants. Exposures were then compared to relevant reference health standards. There is no equivalent method for deriving the 5th percentile dietary intake of nutrients for infants, and hence this information could not be calculated. Since a distribution of food consumption was not available for infants, the proportion of the population group with dietary nutrient intakes outside of reference health standards could not be calculated.

An alternative method of estimating high intakes of nutrients was also developed. This involved using the recommended energy intake for a 9 month old boy (FAO 2004) at the 99th percentile body weight (WHO 2007a) as the basis for a second model diet (11.4 kg). All other assumptions and methodology were as per the model diet for the 50th percentile body weight infant.

Table A8.3: Equations used to estimate high dietary exposures for 9 month old infants

Chemical type	Equation used to estimate high exposure
Agricultural and veterinary chemicals Contaminants	90 th percentile exposure = mean exposure x 2*
Nutrients	95 th percentile intake = mean intake x 2* Nutrient intake for a 99 th percentile body weight 9 month old infant (11.4 kg)

* (WHO, 1985)

Dietary modelling approach for this study

For population groups aged 17 years and above, the estimated dietary exposures to agricultural and veterinary chemical residues and contaminants were derived from a single day 24-hour recall of food consumption from the 1995 NNS. For nutrients however, the estimated nutrient intakes were adjusted based on the information collected on both days of the 1995 NNS.

For children aged 2-16 years, estimated dietary exposures to agricultural and veterinary chemicals and contaminants were derived using the average of the food consumption data from the two 24-hour recalls in the 2007 NNS survey. Estimated nutrient intakes were adjusted based on the food consumption from both days of the 2007 NNS survey (Equation 2).

Due to the different methodologies used to derive the data from the two nutrition surveys, caution should be applied when comparing exposure estimates for children and adults. Despite the different approaches used, all age groups are presented in a combined format.

Second day adjustment method for nutrient intakes

The range of nutrient intakes from respondents is broader based on a single day of food consumption data than the range of usual intakes if these were measured over many days, as the latter reduces the variation in day to day intakes within each person. Because nutrients are widespread in foods and almost all survey respondents will have a nutrient intake on any given day, it is possible to apply a statistical adjustment to estimate usual, longer-term nutrient intake, even when only a subset of respondents participated in more than one day of food recalls. Using adjusted intakes provides better information for risk characterisation purposes as it facilitates comparison with the reference health standards, which describe requirements over the long-term and are expressed as values per day for convenience only. Adjusted nutrient intakes are reported in this ATDS.

To calculate usual daily nutrient intakes, more than one day of food consumption data is required. Information for a second (non-consecutive) day of food consumption was collected from approximately 10% of 1995 NNS respondents and 100% of 2007 NNS respondents. An adjustment was made to each respondent's nutrient intake based on the first day of food consumption data from the 1995 NNS/2007 NNS, using the calculation described in Equation 2. For more information on the methodology of adjusting for second day intakes, see the Technical Paper on the National Nutrition Survey: Confidentialised Unit Record File (ABS, 1998).

Equation 2: Second day nutrient adjustment method

$$\text{Adjusted value} = x + (x_1 - x) * (S_b/S_{obs})$$

Where:

x is the group mean for the Day 1 sample

x_1 is the individual's Day 1 intake

S_b is the between person standard deviation; and

S_{obs} is the group standard deviation for the Day 1 sample

The age-gender groups used to calculate the second day adjusted nutrient intakes were as outlined in Table A8.4. The age-gender groups used for adjusting nutrient intakes were selected based on the need for sufficient people with a second day of food consumption data to enable a robust adjustment to be made.

Table A8.4: Age-gender groups used to calculate second day adjusted nutrient intakes

Survey	Age Group	Gender	
		Male	Female
2007 NNS	2-3 years	✓	✓
	4-8 years	✓	✓
	9-13 years	✓	✓
	14-16 years	✓	✓
1995 NNS	14-34 years	✓	✓
	35 years & above	✓	✓

Respondents versus consumers

Estimates of dietary exposure can be calculated for all survey respondents or only for those who reported consuming a food containing the chemical on the day of the survey ('consumers'). This study reports exposure estimates for 'consumers'.

Due to the methodology used to calculate nutrient intakes, all respondents in the 1995 NNS and 2007 NNS are consumers of nutrients. The contaminants (with the exception of methylmercury) investigated in this study are also distributed across a wide range of foods and are frequently consumed by all members of the population.

The number of respondents in each age-gender group is provided in Table A8.1 and Table A8.2.

Food mapping

There were three types of mapping used for this study:

1. Direct mapping – where the ATDS foods were directly matched to the same food and to similar foods from the 1995 NNS and 2007 NNS (e.g. the ATDS food 'apples' was mapped to the 1995 NNS food 'apple, red, raw, unpeeled' and 'quince, stewed, unsweetened', using the assumption that the food chemicals present in apples are the same in all pome fruits).
2. Mapping using 'factors' – used where the ATDS food is in a different form to that consumed in the 1995 NNS or 2007 NNS (e.g. the ATDS food 'coffee, instant' was analysed in its hydrated (or ready-to-drink) form but some respondents in the 1995 NNS reported consuming dry instant coffee powder). The food consumption amount reported in the 1995 NNS or 2007 NNS is multiplied by a 'factor' to convert the food to the same form as analysed in the ATDS (e.g. 2 grams of instant coffee powder was converted to 226 grams of ready-to-drink black instant coffee).
3. Recipes – used where a food consumed in the 1995 NNS or 2007 NNS is composed of more than one analysed ATDS food (e.g. the 1995 NNS food ;fruit drink, orange,

ready-to-drink; is made up of the ATDS foods 'sugar, white', 'water, tap' and 'juice, orange').

Using a 'best fit' approach and the methods listed above, approximately 4,400 1995 NNS foods and 4,000 2007 NNS foods were matched to the 92 ATDS foods sampled. Dietary exposure results in this report have been presented in terms of the group of foods that the ATDS food represents, rather than as the individual ATDS food itself (e.g. the ATDS food 'apples' is referred to as 'apples and quinces' in the dietary exposure assessments). Details of the ATDS foods and the 1995 NNS and 2007 NNS foods that they represent are provided in Appendix 13.

Appendix 9: Concentrations of agricultural and veterinary chemicals in foods

Table A9.1 – Concentrations of agricultural and veterinary chemicals in foods (mg/kg), sorted by food

Notes on Table:

Results are derived from composite samples.
Pesticides are only listed where they were detected.
'nd' mean less than the limit of detection.
'Mean' results have been rounded to two significant figures.

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
Almonds	Piperonyl butoxide	4	2	0.04
Apples	Captan	8	6	0.048
	Carbendazim	8	3	0.10
	Chlorpyrifos	8	5	0.065
	Diphenylamine	8	1	0.69
	Dithiocarbamate	8	6	0.10
	Iprodione	8	0	0.65
	Propargite	8	5	0.12
	Tebufenpyrad	8	7	0.012
Avocados	Piperonyl butoxide	8	7	0.013
	Pirimiphos-methyl	8	7	0.007
Bacon		4	4	No detections
Baked beans		4	4	No detections
Bananas		8	8	No detections
Beans, green, raw	Boscalid	8	7	0.0048
	Methomyl	8	7	0.0023
Beef, minced, lean		8	8	No detections
Beer, full strength		4	4	No detections
Beetroot, canned		4	4	No detections

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
Biscuits, savoury	Chlorpyrifos-methyl	4	3	0.020
	Piperonyl butoxide	4	1	0.062
	Pirimiphos-methyl	4	3	0.014
Biscuits, sweet, plain	Fenitrothion	4	2	0.038
	Piperonyl butoxide	4	1	0.065
	Iodosulfuron-methyl	4	3	0.013
Bread, fancy	Chlorpyrifos-methyl	8	7	0.010
	Piperonyl butoxide	8	7	0.015
	Carbendazim	8	7	0.0018
Bread, multigrain	Chlorpyrifos-methyl	12	9	0.024
	Piperonyl butoxide	12	10	0.032
	Pirimiphos-methyl	12	10	0.012
	Glyphosate	12	10	0.016
Bread, white	Chlorpyrifos-methyl	12	10	0.023
	Piperonyl butoxide	12	10	0.025
Breakfast cereal, mixed grain	Chlorpyrifos	4	1	0.004
	Piperonyl butoxide	4	1	0.017
	Procymidone	4	1	0.058
Breakfast cereal, single grain	Piperonyl butoxide	4	1	0.29
	Triclopyr	4	2	0.021
Broccoli	Dithiocarbamate	8	2	0.47
Butter		4	4	No detections
Cabbage	Dithiocarbamate	8	4	0.28
Cake, chocolate, iced		4	4	No detections
Capsicum	p,p Dicofol	8	1	0.056
	Dimethoate	8	6	0.11

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
	Methamidophos	8	5	0.059
	Omethoate	8	7	0.0069
	Piperonyl butoxide	8	7	0.0063
	Carbendazim	8	7	0.0013
	Imidacloprid	8	7	0.0024
Carrots		10	10	No detections
Cauliflower	Dithiocarbamate	8	2	0.18
Celery	Iprodione	8	7	0.0066
	Azoxystrobin	8	7	0.0015
	Guazatine	8	5	0.011
	Dithiocarbamate	8	6	0.13
Cheese, cheddar		10	10	No detections
Chicken breast	Methomyl	10	9	0.0012
	Nicarbazin	10	7	0.21
Chicken mince	Nicarbazin	10	7	0.13
Chocolate, milk		4	4	No detections
Coconut, dessicated		4	4	No detections
Coffee, espresso		4	4	No detections
Coffee, instant		4	4	No detections
Cucumber	Chlorothalonil	8	7	0.011
	Chlorpyrifos	8	7	0.0034
	Iprodione	8	6	0.037
	Carbendazim	8	6	0.010
	Methomyl	8	7	0.0039
Dried apricots	Captan	4	2	0.077
	Carbendazim	4	3	0.0025
	Dithiocarbamate	4	0	0.16

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
Eggs	Nicarbazin	10	9	0.009
Fish fillets, battered		10	10	No detections
Fish portions, frozen		4	4	No detections
Grapes	Dimethoate	8	7	0.010
	Iprodione	8	7	0.0086
	Pyrimethanil	8	7	0.0091
	Dithiocarbamate	8	6	0.039
Ham, sliced		4	4	No detections
Hamburger	Chlorpyrifos-methyl	8	6	0.013
	Piperonyl butoxide	8	6	0.029
	Aldicarb	8	6	0.004
Honey		4	4	No detections
Ice cream, full fat, vanilla		4	4	No detections
Infant cereal, mixed		4	4	No detections
Infant dessert, milk based		4	4	No detections
Infant dinner		4	4	No detections
Infant formula		4	4	No detections
Juice, fruit	Carbendazim	4	3	0.0058
Kiwifruit	Carbaryl	8	7	0.029
Lamb chops, loin		10	10	No detections
Lettuce	Chlorothalonil	8	7	0.22
	Dimethoate	8	7	0.028
	Permethrin	8	7	0.14
	Prochloraz	8	7	0.096
	Boscalid	8	7	0.0051
	Imidacloprid	8	6	0.019

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
	Methomyl	8	7	0.003
	Spinosad	8	7	0.011
Liver pate (chicken)	Nicarbazin	4	2	0.17
Mango	Carbendazim	4	2	0.025
Margarine, monounsaturated	Boscalid	4	3	0.032
Milk, full fat		16	16	No detections
Mushrooms	2-Phenylphenol	8	7	0.0063
	Piperonyl butoxide	8	6	0.10
	Allethrin	8	7	0.0038
	Carbendazim	8	5	0.021
Nectarine	Bifenthrin	8	5	0.018
	Dimethoate	8	7	0.0068
	Iprodione	8	1	0.30
	Propargite	8	6	0.035
	Tebufenpyrad	8	7	0.007
Oats, rolled		4	4	No detections
Oil, canola and olive		4	4	No detections
Onions		8	8	No detections
Orange	Imazalil	8	3	0.054
	Iprodione	8	7	0.0095
	2,4 -D	8	7	0.002
	Carbendazim	8	7	0.0016
Pasta		4	4	No detections
Peach, natural juice	Iprodione	4	3	0.019
Peanut butter		4	4	No detections
Pear, natural juice		4	4	No detections
Peas, frozen		4	4	No detections

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
Pie, meat	Chlorpyrifos-methyl	4	3	0.015
Pineapple, canned in natural juice	Haloxfop	4	3	0.0043
Pizza, meat and vegetable topping	Chlorpyrifos-methyl	4	3	0.016
	Aldicarb	4	3	0.0063
Potato		12	12	No detections
Potato crisps	Chlorpropham	4	3	0.089
Prawns		8	8	No detections
Pumpkin	Dieldrin	8	7	0.0051
	Piperonyl butoxide	8	7	0.0075
Rice, white, long grain		4	4	No detections
Sauce, tomato		4	4	No detections
Sausages, beef	Allethrin	10	9	0.0028
Savoury sauce, non tomato	Carbendazim	4	3	0.0058
	Fenbutatin oxide	4	3	0.09
	Iodosulfuron-methyl	4	3	0.011
Soft drink		4	4	No detections
Soy beverage, full fat		4	4	No detections
Strawberries	Captan	8	3	0.25
	p,p Dicofol	8	7	0.0076
	Dimethoate	8	7	0.015
	Iprodione	8	3	0.20
	Myclobutanil	8	7	0.012
	Pyrimethanil	8	4	0.20
	Fenbutatin oxide	8	7	0.033
	Methomyl	8	6	0.020
Sugar, white		4	4	No detections

Food	Residue	No. of analyses	No. of 'nd' results	Mean (nd=0)
Sultanas		4	4	No detections
Sweetcorn, kernels, frozen		4	4	No detections
Tea		4	4	No detections
Tomatoes, canned		4	4	No detections
Tomatoes, raw	Endosulfan-alpha	8	7	0.016
	Endosulfan-beta	8	7	0.012
	Endosulfan sulphate	8	7	0.0023
Tuna, canned in brine		4	4	No detections
Water, bottled		4	4	No detections
Water, tap		8	8	No detections
Watermelon		8	8	No detections
Wine, red	Captan	8	4	0.049
	Carbendazim	8	5	0.018
Wine, white	Captan	8	2	0.089
	Carbendazim	8	5	0.013
Yoghurt, fruit, full fat	Propargite	8	7	0.0086
	Carbendazim	8	7	0.008

Table A9.2 – Concentrations of agricultural and veterinary chemicals in foods (mg/kg), sorted by chemical

Notes on Table:

Results are derived from composite samples.
 Chemicals are only listed where there were detections.
 'nd' mean less than the limit of detection.
 'Mean' results have been rounded to two significant figures.

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
2-Phenylphenol	Mushrooms	8	7	0.0063
Aldicarb	Pizza, meat and vegetable topping	4	3	0.0063
Allethrin	Mushrooms	8	7	0.0038
	Sausages, beef	10	9	0.0028
Azoxystrobin	Celery	8	7	0.0015
Bifenthrin	Nectarine	8	5	0.018
Boscalid	Beans, green, raw	8	7	0.0048
	Lettuce	8	7	0.0051
	Margarine, monounsaturated	4	3	0.032
Captan	Apples	8	6	0.048
	Dried apricots	4	2	0.077

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
	Strawberries	8	3	0.25
	Wine, red	8	4	0.049
	Wine, white	8	2	0.089
Carbaryl	Kiwifruit	8	7	0.029
Carbendazim	Apples	8	3	0.10
	Bread, fancy	8	7	0.0018
	Capsicum	8	7	0.0013
	Cucumber	8	6	0.01
	Dried apricots	4	3	0.0025
	Juice, fruit	4	3	0.0058
	Mango	4	2	0.025
	Mushrooms	8	5	0.021
	Orange	8	7	0.0016
	Savoury sauce, non tomato	4	3	0.0058
	Wine, red	8	5	0.018
	Wine, white	8	5	0.013
	Yoghurt, fruit, full fat	8	7	0.008
Chlorpropham	Potato crisps	4	3	0.089
Chlorothalonil	Cucumber	8	7	0.011
	Lettuce	8	7	0.22
Chlorpyrifos	Apples	8	5	0.065

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
Chlorpyrifos-methyl	Breakfast cereal, mixed grain	4	1	0.004
	Cucumber	8	7	0.0034
	Biscuits, savoury	4	3	0.02
	Bread, fancy	8	7	0.01
	Bread, multigrain	12	9	0.024
	Bread, white	12	10	0.023
	Hamburger	8	6	0.013
	Pie, meat	4	3	0.015
	Pizza, meat and vegetable topping	4	3	0.016
Dieldrin	Pumpkin	8	7	0.0051
Dimethoate	Capsicum	8	6	0.11
	Grapes	8	7	0.01
	Lettuce	8	7	0.028
	Nectarine	8	7	0.0068
	Strawberries	8	7	0.015
Diphenylamine	Apples	8	1	0.69
Dithiocarbamate	Apples	8	6	0.10
	Broccoli	8	2	0.47
	Cabbage	8	4	0.28
	Cauliflower	8	2	0.18
	Celery	8	6	0.13
	Dried apricots	4	0	0.16

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
Endosulfan sulphate	Grapes	8	6	0.039
	Tomatoes, raw	8	7	0.0023
Endosulfan-alpha	Tomatoes, raw	8	7	0.016
Endosulfan-beta	Tomatoes, raw	8	7	0.012
Fenbutatin oxide	Savoury sauce, non tomato	4	3	0.09
	Strawberries	8	7	0.033
Fenitrothion	Biscuits, sweet, plain	4	2	0.038
Glyphosate	Bread, multigrain	12	10	0.016
Guazatine	Celery	8	5	0.011
Haloxfop	Pineapple, canned in natural juice	4	3	0.0043
Imazalil	Orange	8	3	0.054
Imidacloprid	Capsicum	8	7	0.0024
	Lettuce	8	6	0.019
Iodosulfuron-methyl	Biscuits, sweet, plain	4	3	0.013
	Savoury sauce, non tomato	4	3	0.011

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
Iprodione	Apples	8	0	0.65
	Celery	8	7	0.0066
	Cucumber	8	6	0.037
	Grapes	8	7	0.0086
	Nectarine	8	1	0.30
	Orange	8	7	0.0095
	Peach, natural juice	4	3	0.019
	Strawberries	8	3	0.20
Methamidophos	Capsicum	8	5	0.059
Methomyl	Beans, green, raw	8	7	0.0023
	Chicken breast	10	9	0.0012
	Cucumber	8	7	0.0039
	Lettuce	8	7	0.003
	Strawberries	8	6	0.02
Myclobutanil	Strawberries	8	7	0.012
Nicarbazin	Chicken breast	10	7	0.21
	Chicken mince	10	7	0.13
	Eggs	10	9	0.009
	Liver pate (chicken)	4	2	0.17
Omethoate	Capsicum	8	7	0.0069
p,p Dicofol	Capsicum	8	1	0.056

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)	
Permethrin	Strawberries	8	7	0.0076	
	Lettuce	8	7	0.14	
Piperonyl butoxide	Almonds	4	2	0.04	
	Avocados	8	7	0.013	
	Biscuits, savoury	4	1	0.062	
	Biscuits, sweet, plain	4	1	0.065	
	Bread, fancy	8	7	0.015	
	Bread, multigrain	12	10	0.032	
	Bread, white	12	10	0.025	
	Breakfast cereal, mixed grain	4	1	0.017	
	Breakfast cereal, single grain	4	1	0.29	
	Capsicum	8	7	0.0063	
	Mushrooms	8	6	0.10	
	Pumpkin	8	7	0.0075	
	Prochloraz	Lettuce	8	7	0.096
	Procymidone	Breakfast cereal, mixed grain	4	1	0.058
Propargite	Apples	8	5	0.12	
	Nectarine	8	6	0.035	
	Yoghurt, fruit, full fat	8	7	0.0086	

Chemical	Food	No. of analyses	No. of 'nd' results	Mean (nd=0)
Pyrimethanil	Grapes	8	7	0.0091
	Strawberries	8	4	0.2
Spinosad	Lettuce	8	7	0.011
Tebufenpyrad	Apples	8	7	0.012
	Nectarine	8	7	0.007
Triclopyr	Breakfast cereal, single grain	4	2	0.021

Appendix 10: Concentrations of contaminants in foods

Table A10.1 – Concentrations of aluminium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	0	3.5	3.5	3.4	3.4	3.1	4.2
Apples	8	2	0.25	0.28	0.26	0.26	<LOR	0.54
Avocados	8	7	0.024	0.90	0	1.0	<LOR	0.19
Bacon	4	0	0.73	0.73	0.56	0.56	0.41	1.4
Baked beans	4	0	0.46	0.46	0.46	0.46	0.21	0.71
Bananas	8	8	0	0.10	0	0.10	<LOR	<LOR
Beans, green, raw	8	0	0.83	0.83	0.87	0.87	0.39	1.2
Beef, minced, lean	8	0	1.4	1.4	0.67	0.67	0.29	4.1
Beer, full strength	4	1	0.080	0.093	0.082	0.082	<LOR	0.16
Beetroot, canned	4	1	0.39	0.42	0.26	0.26	<LOR	1.1

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, savoury	4	0	4.1	4.1	4.2	4.2	2.5	5.5
Biscuits, sweet, plain	4	0	1.9	1.9	1.6	1.6	1.2	3.3
Bread, fancy	8	0	41.2	41.2	2.8	2.8	1.5	309.0
Bread, multigrain	12	0	2.8	2.8	2.7	2.7	1.4	4.1
Bread, white	12	0	2.3	2.3	2.2	2.2	1.2	4.5
Breakfast cereal, mixed grain	4	0	3.2	3.2	2.9	2.9	2.7	4.2
Breakfast cereal, single grain	4	0	2.2	2.2	2.2	2.2	1.7	2.9
Broccoli	8	0	0.84	0.84	0.78	0.78	0.33	1.7
Butter	4	3	0.027	0.78	0	1.0	<LOR	0.11
Cabbage	8	7	0.076	0.16	0	0.10	<LOR	0.61
Cake, chocolate, iced	4	0	107.6	107.6	87.9	87.9	61.7	192.9
Capsicum	8	5	0.17	0.23	0	0.10	<LOR	0.71
Carrots	10	6	0.14	0.20	0	0.10	<LOR	0.69
Cauliflower	8	5	0.17	0.23	0	0.10	<LOR	1.0
Celery	8	0	1.4	1.4	0.71	0.71	0.32	6.6
Cheese, cheddar	10	0	0.65	0.65	0.52	0.52	0.21	1.4
Chicken breast	10	7	0.15	0.22	0	0.1	<LOR	1.1

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chicken mince	10	1	1.4	1.4	0.92	0.92	<LOR	4.0
Chocolate, milk	4	0	5.5	5.5	4.1	4.1	2.7	11.2
Coconut, dessicated	4	2	0.32	0.82	0.087	1.0	<LOR	1.1
Coffee, espresso	4	3	0.012	0.050	0	0.050	<LOR	0.050
Coffee, instant	4	0	0.26	0.26	0.21	0.21	0.15	0.46
Cucumber	8	5	0.064	0.13	0	0.1	<LOR	0.27
Dried apricots	4	0	5.9	5.9	5.1	5.1	3.9	9.6
Eggs	10	9	0.027	0.12	0	0.10	<LOR	0.27
Fish fillets, battered	10	0	18.9	18.9	1.4	1.4	0.25	84.5
Fish portions, frozen	4	0	24.9	24.9	23.6	23.6	14.61	37.9
Grapes	8	0	0.53	0.53	0.51	0.51	0.24	0.88
Ham, sliced	4	0	2.9	2.9	3.2	3.2	1.6	3.7
Hamburger	8	0	2.8	2.8	3.0	3.0	1.5	3.7
Honey	4	0	0.88	0.88	0.86	0.86	0.42	1.4
Ice cream, full fat, vanilla	4	3	0.14	0.22	0	0.10	<LOR	0.58
Infant cereal, mixed	4	2	0.25	0.30	0.12	0.17	<LOR	0.75
Infant dessert, milk based	4	1	0.16	0.19	0.20	0.20	<LOR	0.25

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant dinner	4	0	0.52	0.52	0.46	0.46	0.12	1.0
Infant formula	4	0	0.29	0.29	0.24	0.24	0.18	0.53
Juice, fruit	4	0	0.13	0.13	0.11	0.11	0.09	0.21
Kiwifruit	8	0	2.2	2.2	1.8	1.8	1.2	5.0
Lamb chops, loin	10	1	0.90	0.91	0.56	0.56	<LOR	2.8
Lettuce	8	2	1.0	1.1	0.70	0.70	<LOR	2.4
Liver pate (chicken)	4	0	1.3	1.3	1.4	1.4	0.67	1.7
Mango	4	4	0	0.10	0	0.10	<LOR	<LOR
Margarine, monounsaturated	4	2	0.15	0.65	0.12	0.68	<LOR	0.37
Milk, full fat	16	12	0.017	0.054	0	0.05	<LOR	0.09
Mushrooms	8	3	0.20	0.24	0.21	0.21	<LOR	0.45
Nectarine	8	0	0.29	0.29	0.29	0.29	0.15	0.40
Oats, rolled	4	2	0.15	0.20	0.11	0.16	<LOR	0.36
Oil, canola and olive	4	1	0.077	0.33	0.073	0.13	0.057	0.16
Onions	8	5	0.10	0.16	0	0.10	<LOR	0.42
Orange	8	8	0	0.10	0	0.10	<LOR	<LOR

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Pasta	4	0	0.41	0.41	0.32	0.32	0.24	0.76
Peach, natural juice	4	4	0	0.1	0	0.1	<LOR	<LOR
Peanut butter	4	0	3.1	3.1	2.5	2.5	0.20	7.1
Pear, natural juice	4	3	0.016	0.091	0	0.1	<LOR	0.07
Peas, frozen	4	0	1.7	1.7	1.7	1.7	0.84	2.4
Pie, meat	4	0	1.9	1.9	1.9	1.9	1.6	2.1
Pineapple, canned in natural juice	4	2	0.13	0.18	0.12	0.17	<LOR	0.27
Pizza, meat and vegetable topping	4	0	2.1	2.1	1.9	1.9	1.6	3.0
Potato	12	7	0.14	0.20	0	0.10	<LOR	0.87
Potato crisps	4	0	2.4	2.4	2.6	2.6	1.7	2.9
Prawns	8	0	3.2	3.2	1.9	1.9	0.76	7.6
Pumpkin	8	7	0.036	0.12	0	0.1	<LOR	0.29
Rice, white, long grain	4	2	0.18	0.23	0.063	0.11	<LOR	0.59
Sauce, tomato	4	0	3.9	3.9	4.4	4.4	1.7	4.9
Sausages, beef	10	0	15.7	15.7	10	10	2.1	36.2
Savoury sauce, non tomato	4	0	1.9	1.9	1.7	1.7	0.33	4.1
Soft drink	4	2	0.075	0.10	0.046	0.071	<LOR	0.21

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Soy beverage, full fat	4	0	0.40	0.40	0.38	0.38	0.25	0.58
Strawberries	8	0	0.61	0.61	0.54	0.54	0.39	1.1
Sugar, white	4	4	0	1.0	0	1.0	<LOR	<LOR
Sultanas	4	0	8.2	8.2	8.1	8.1	6.7	10.1
Sweetcorn, kernels, frozen	4	3	0.043	0.12	0	0.1	<LOR	0.17
Tea	4	0	2.4	2.4	2.3	2.3	1.7	3.3
Tomatoes, canned	4	0	1.3	1.3	0.59	0.59	0.32	3.7
Tomatoes, raw	8	7	0.036	0.12	0	0.1	<LOR	0.29
Tuna, canned in brine	4	0	0.67	0.67	0.64	0.64	0.15	1.2
Water, bottled	4	3	0.074	0.082	0	0.01	<LOR	0.30
Water, tap	8	0	0.093	0.093	0.069	0.069	0.02	0.21
Watermelon	8	5	0.061	0.12	0	0.10	<LOR	0.30
Wine, red	8	0	0.46	0.46	0.44	0.44	0.22	0.84
Wine, white	8	0	0.55	0.55	0.54	0.54	0.40	0.80
Yoghurt, fruit, full fat	8	1	0.25	0.26	0.27	0.27	<LOR	0.39

Table A10.2 – Concentrations of arsenic (total) in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	4	0	0.025	0	0.025	<LOR	<LOR
Apples	8	6	0.0015	0.0053	0	0.005	<LOR	0.0069
Avocados	8	7	0.0015	0.023	0	0.025	<LOR	0.012
Bacon	4	0	0.015	0.015	0.013	0.013	0.0080	0.027
Baked beans	4	2	0.0052	0.0077	0.0051	0.0076	<LOR	0.010
Bananas	8	7	0.00088	0.0053	0	0.005	<LOR	0.0071
Beans, green, raw	8	8	0	0.005	0	0.005	<LOR	<LOR
Beef, minced, lean	8	0	0.013	0.013	0.012	0.012	0.0062	0.021
Beer, full strength	4	1	0.0036	0.0042	0.0038	0.0038	<LOR	0.0066
Beetroot, canned	4	0	0.014	0.014	0.014	0.014	0.0096	0.018

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, savoury	4	3	0.0027	0.021	0	0.025	<LOR	0.011
Biscuits, sweet, plain	4	3	0.0094	0.028	0	0.025	<LOR	0.038
Bread, fancy	8	4	0.013	0.025	0.0081	0.025	<LOR	0.037
Bread, multigrain	12	8	0.0059	0.023	0	0.025	<LOR	0.028
Bread, white	12	8	0.0065	0.023	0	0.025	<LOR	0.043
Breakfast cereal, mixed grain	4	4	0	0.025	0	0.025	<LOR	<LOR
Breakfast cereal, single grain	4	1	0.031	0.037	0.032	0.035	<LOR	0.060
Broccoli	8	7	0.0012	0.0056	0	0.005	<LOR	0.0094
Butter	4	4	0	0.025	0	0.025	<LOR	<LOR
Cabbage	8	7	0.00083	0.0052	0	0.005	<LOR	0.0066
Cake, chocolate, iced	4	2	0.0061	0.0086	0.0035	0.0060	<LOR	0.017
Capsicum	8	6	0.0013	0.0051	0	0.005	<LOR	0.0055
Carrots	10	4	0.0064	0.0084	0.0059	0.0059	<LOR	0.015
Cauliflower	8	6	0.0019	0.0057	0	0.005	<LOR	0.0095
Celery	8	4	0.0052	0.0077	0.0026	0.0051	<LOR	0.020
Cheese, cheddar	10	7	0.0022	0.020	0	0.025	<LOR	0.0084
Chicken breast	10	1	0.014	0.015	0.011	0.011	<LOR	0.040

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chicken mince	10	0	0.016	0.016	0.014	0.014	0.0051	0.043
Chocolate, milk	4	2	0.012	0.024	0.005	0.025	<LOR	0.037
Coconut, dessicated	4	3	0.0033	0.022	0	0.025	<LOR	0.013
Coffee, espresso	4	0	0.0048	0.0048	0.0043	0.0043	0.0038	0.0066
Coffee, instant	4	3	0.0014	0.0033	0	0.0025	<LOR	0.0057
Cucumber	8	4	0.0049	0.0074	0.0031	0.0056	<LOR	0.016
Dried apricots	4	0	0.041	0.041	0.027	0.027	0.026	0.084
Eggs	10	1	0.011	0.012	0.0096	0.0096	<LOR	0.032
Fish fillets, battered	10	0	3.9	3.9	2.5	2.5	0.42	13.1
Fish portions, frozen	4	0	0.80	0.80	0.84	0.84	0.60	0.93
Grapes	8	6	0.0016	0.0054	0	0.005	<LOR	0.0068
Ham, sliced	4	0	0.024	0.024	0.020	0.020	0.017	0.038
Hamburger	8	0	0.011	0.011	0.012	0.012	0.0055	0.015
Honey	4	3	0.016	0.035	0	0.025	<LOR	0.063
Ice cream, full fat, vanilla	4	4	0	0.005	0	0.005	<LOR	<LOR
Infant cereal, mixed	4	0	0.027	0.027	0.026	0.026	0.018	0.038
Infant dessert, milk based	4	0	0.011	0.011	0.011	0.011	0.0085	0.015

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant dinner	4	1	0.027	0.028	0.022	0.022	<LOR	0.064
Infant formula	4	3	0.00067	0.0025	0	0.0025	<LOR	0.0027
Juice, fruit	4	0	0.015	0.015	0.0085	0.0085	0.0033	0.040
Kiwifruit	8	5	0.0043	0.0074	0	0.005	<LOR	0.014
Lamb chops, loin	10	4	0.0094	0.011	0.0080	0.0080	<LOR	0.032
Lettuce	8	5	0.0033	0.0064	0	0.005	<LOR	0.012
Liver pate (chicken)	4	0	0.054	0.054	0.054	0.054	0.027	0.082
Mango	4	4	0	0.005	0	0.005	<LOR	<LOR
Margarine, monounsaturated	4	4	0	0.025	0	0.025	<LOR	<LOR
Milk, full fat	16	10	0.0013	0.0028	0	0.0025	<LOR	0.0042
Mushrooms	8	1	0.053	0.054	0.045	0.045	<LOR	0.16
Nectarine	8	4	0.0070	0.0095	0.0026	0.0051	<LOR	0.038
Oats, rolled	4	4	0	0.005	0	0.005	<LOR	<LOR
Oil, canola and olive	4	4	0	0.025	0	0.025	<LOR	<LOR
Onions	8	4	0.0069	0.0094	0.0036	0.0061	<LOR	0.020
Orange	8	6	0.0045	0.0083	0	0.005	<LOR	0.020

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Pasta	4	4	0	0.005	0	0.005	<LOR	<LOR
Peach, natural juice	4	3	0.0015	0.0052	0	0.005	<LOR	0.0059
Peanut butter	4	3	0.0015	0.020	0	0.025	<LOR	0.0060
Pear, natural juice	4	4	0	0.005	0	0.005	<LOR	<LOR
Peas, frozen	4	3	0.0028	0.0065	0	0.005	<LOR	0.011
Pie, meat	4	0	0.019	0.019	0.0076	0.0076	0.0072	0.053
Pineapple, canned in natural juice	4	3	0.0024	0.0062	0	0.005	<LOR	0.0097
Pizza, meat and vegetable topping	4	0	0.030	0.030	0.027	0.027	0.016	0.053
Potato	12	8	0.0042	0.0075	0	0.005	<LOR	0.019
Potato crisps	4	2	0.026	0.039	0.0032	0.025	<LOR	0.099
Prawns	8	0	1.4	1.4	0.71	0.71	0.49	6.5
Pumpkin	8	5	0.0043	0.0075	0	0.005	<LOR	0.015
Rice, white, long grain	4	0	0.088	0.088	0.082	0.082	0.070	0.12
Sauce, tomato	4	1	0.020	0.021	0.0089	0.0089	<LOR	0.061
Sausages, beef	10	2	0.019	0.020	0.019	0.019	<LOR	0.036
Savoury sauce, non tomato	4	1	0.015	0.016	0.016	0.016	<LOR	0.028
Soft drink	4	4	0	0.0025	0	0.0025	<LOR	<LOR

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Soy beverage, full fat	4	3	0.00079	0.0027	0	0.0025	<LOR	0.0031
Strawberries	8	5	0.0034	0.0065	0	0.005	<LOR	0.010
Sugar, white	4	4	0	0.025	0	0.025	<LOR	<LOR
Sultanas	4	0	0.025	0.025	0.027	0.027	0.0051	0.040
Sweetcorn, kernels, frozen	4	2	0.21	0.22	0.0047	0.0072	<LOR	0.85
Tea	4	4	0	0.0025	0	0.0025	<LOR	<LOR
Tomatoes, canned	4	3	0.0020	0.0058	0	0.005	<LOR	0.0081
Tomatoes, raw	8	6	0.0025	0.0062	0	0.005	<LOR	0.012
Tuna, canned in brine	4	0	1.1	1.1	1.1	1.1	0.72	1.5
Water, bottled	4	3	0.00022	0.00060	0	0.0005	<LOR	0.0009
Water, tap	8	6	0.00027	0.00064	0	0.0005	<LOR	0.0013
Watermelon	8	8	0	0.005	0	0.005	<LOR	<LOR
Wine, red	8	0	0.012	0.012	0.0087	0.0087	0.0035	0.029
Wine, white	8	0	0.0095	0.0095	0.0092	0.0092	0.0061	0.015
Yoghurt, fruit, full fat	8	1	0.0088	0.0094	0.0096	0.0096	<LOR	0.013

Table A10.3 – Concentrations of arsenic (inorganic) in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Fish fillets, battered	10	10	0	0.05	0	0.05	<LOR	<LOR
Fish portions, frozen	4	4	0	0.05	0	0.05	<LOR	<LOR
Prawns	8	8	0	0.05	0	0.05	<LOR	<LOR
Tuna, canned in brine	4	4	0	0.05	0	0.05	<LOR	<LOR

Table A10.4 – Concentrations of cadmium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	1	0.011	0.012	0.0060	0.0061	<LOR	0.032
Apples	8	8	0	0.001	0	0.001	<LOR	<LOR
Avocados	8	0	0.029	0.029	0.026	0.026	0.016	0.051
Bacon	4	2	0.00057	0.0011	0.00053	0.0010	<LOR	0.0012
Baked beans	4	0	0.0041	0.0041	0.0043	0.0043	0.0021	0.0058
Bananas	8	8	0	0.001	0	0.001	<LOR	<LOR
Beans, green, raw	8	5	0.00069	0.0013	0	0.001	<LOR	0.0025
Beef, minced, lean	8	7	0.00017	0.0010	0	0.001	<LOR	0.0014
Beer, full strength	4	4	0	0.0005	0	0.0005	<LOR	<LOR
Beetroot, canned	4	0	0.0089	0.0089	0.0083	0.0083	0.0057	0.014
Biscuits, savoury	4	0	0.014	0.014	0.012	0.012	0.010	0.021

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	1	0.0063	0.0075	0.0076	0.0076	<LOR	0.0098
Bread, fancy	8	2	0.0079	0.0091	0.0062	0.0062	<LOR	0.021
Bread, multigrain	12	1	0.019	0.019	0.013	0.013	<LOR	0.044
Bread, white	12	2	0.0089	0.0098	0.0064	0.0064	<LOR	0.025
Breakfast cereal, mixed grain	4	0	0.0089	0.0089	0.0086	0.0086	0.0065	0.012
Breakfast cereal, single grain	4	0	0.0099	0.0099	0.0093	0.0093	0.0061	0.015
Broccoli	8	0	0.0051	0.0051	0.0048	0.0048	0.0015	0.0080
Butter	4	4	0	0.0050	0	0.0050	<LOR	<LOR
Cabbage	8	3	0.00099	0.0014	0.0012	0.0012	<LOR	0.0029
Cake, chocolate, iced	4	0	0.025	0.025	0.025	0.025	0.020	0.032
Capsicum	8	0	0.0056	0.0056	0.0049	0.0049	0.0030	0.0091
Carrots	10	0	0.019	0.019	0.017	0.017	0.0041	0.047
Cauliflower	8	0	0.0034	0.0034	0.0034	0.0034	0.0010	0.0053
Celery	8	0	0.0072	0.0072	0.0056	0.0056	0.0021	0.021
Cheese, cheddar	10	7	0.00065	0.0041	0	0.005	<LOR	0.0029
Chicken breast	10	10	0	0.0010	0	0.0010	<LOR	<LOR
Chicken mince	10	8	0.00041	0.0012	0	0.0010	<LOR	0.0028

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chocolate, milk	4	0	0.042	0.042	0.023	0.023	0.017	0.10
Coconut, dessicated	4	0	0.019	0.019	0.017	0.017	0.013	0.030
Coffee, espresso	4	3	0.00028	0.00066	0	0.0005	<LOR	0.0011
Coffee, instant	4	4	0	0.0005	0	0.0005	<LOR	<LOR
Cucumber	8	2	0.0014	0.0017	0.0012	0.0012	<LOR	0.0043
Dried apricots	4	0	0.0033	0.0033	0.0032	0.0032	0.0017	0.0050
Eggs	10	8	0.00026	0.0011	0	0.0010	<LOR	0.0015
Fish fillets, battered	10	1	0.0036	0.0037	0.0035	0.0035	<LOR	0.0064
Fish portions, frozen	4	0	0.0054	0.0054	0.0056	0.0056	0.0045	0.0060
Grapes	8	7	0.00014	0.0010	0	0.0010	<LOR	0.0012
Ham, sliced	4	0	0.0037	0.0037	0.0037	0.0037	0.0026	0.0046
Hamburger	8	0	0.0052	0.0052	0.0041	0.0041	0.0026	0.010
Honey	4	4	0	0.005	0	0.005	<LOR	<LOR
Ice cream, full fat, vanilla	4	4	0	0.001	0	0.001	<LOR	<LOR
Infant cereal, mixed	4	0	0.0029	0.0029	0.0028	0.0028	0.0013	0.0047
Infant dessert, milk based	4	3	0.00050	0.0013	0	0.0010	<LOR	0.0020
Infant dinner	4	0	0.0029	0.0029	0.0030	0.0030	0.0011	0.0045

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant formula	4	3	0.00016	0.00053	0	0.0005	<LOR	0.0006
Juice, fruit	4	0	0.0011	0.0011	0.00087	0.00087	0.0008	0.0023
Kiwifruit	8	7	0.00015	0.0010	0	0.0010	<LOR	0.0012
Lamb chops, loin	10	8	0.00022	0.0010	0	0.0010	<LOR	0.0011
Lettuce	8	0	0.011	0.011	0.0035	0.0035	0.0024	0.037
Liver pate (chicken)	4	0	0.0060	0.0060	0.0054	0.0054	0.0036	0.0096
Mango	4	3	0.00029	0.0010	0	0.0010	<LOR	0.0012
Margarine, monounsaturated	4	4	0	0.0050	0	0.0050	<LOR	<LOR
Milk, full fat	16	14	0.000084	0.00052	0	0.00050	<LOR	0.0008
Mushrooms	8	1	0.0017	0.0018	0.0015	0.0015	<LOR	0.0034
Nectarine	8	1	0.0027	0.0028	0.0025	0.0025	<LOR	0.0061
Oats, rolled	4	0	0.0040	0.0040	0.0043	0.0043	0.0028	0.0047
Oil, canola and olive	4	4	0	0.0050	0	0.0050	<LOR	<LOR
Onions	8	0	0.012	0.012	0.0098	0.0098	0.0070	0.022
Orange	8	7	0.00022	0.0011	0	0.0010	<LOR	0.0017
Pasta	4	0	0.0075	0.0075	0.0084	0.0084	0.0043	0.0089

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Peach, natural juice	4	0	0.0017	0.0017	0.0017	0.0017	0.0014	0.0020
Peanut butter	4	0	0.027	0.027	0.027	0.027	0.018	0.037
Pear, natural juice	4	2	0.00069	0.0012	0.00069	0.0012	<LOR	0.0014
Peas, frozen	4	0	0.0018	0.0018	0.0017	0.0017	0.0016	0.0022
Pie, meat	4	0	0.0059	0.0059	0.0037	0.0037	0.0028	0.014
Pineapple, canned in natural juice	4	3	0.00027	0.0010	0	0.0010	<LOR	0.0011
Pizza, meat and vegetable topping	4	0	0.0099	0.0099	0.011	0.011	0.0050	0.013
Potato	12	0	0.033	0.033	0.026	0.026	0.0079	0.087
Potato crisps	4	0	0.11	0.11	0.11	0.11	0.089	0.12
Prawns	8	0	0.014	0.014	0.0073	0.0073	0.0025	0.070
Pumpkin	8	0	0.0023	0.0023	0.0021	0.0021	0.0011	0.0045
Rice, white, long grain	4	2	0.0036	0.0061	0.0025	0.0050	<LOR	0.0093
Sauce, tomato	4	0	0.015	0.015	0.015	0.015	0.0085	0.022
Sausages, beef	10	2	0.0017	0.0019	0.0016	0.0016	<LOR	0.0035
Savoury sauce, non tomato	4	0	0.0078	0.0078	0.0075	0.0075	0.0041	0.012
Soft drink	4	1	0.00087	0.0010	0.00057	0.00057	<LOR	0.0023
Soy beverage, full fat	4	0	0.0022	0.0022	0.0021	0.0021	0.0012	0.0033

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Strawberries	8	0	0.029	0.029	0.027	0.027	0.013	0.045
Sugar, white	4	3	0.00025	0.0040	0	0.0050	<LOR	0.0010
Sultanas	4	1	0.0051	0.0053	0.0015	0.0015	<LOR	0.017
Sweetcorn, kernels, frozen	4	0	0.0030	0.0030	0.0029	0.0029	0.0013	0.0049
Tea	4	3	0.00015	0.00052	0	0.0005	<LOR	0.0006
Tomatoes, canned	4	0	0.011	0.011	0.010	0.010	0.0059	0.017
Tomatoes, raw	8	1	0.0037	0.0038	0.0024	0.0024	<LOR	0.0088
Tuna, canned in brine	4	0	0.012	0.012	0.011	0.011	0.0093	0.015
Water, bottled	4	2	0.00012	0.00017	0.00012	0.00017	<LOR	0.0002
Water, tap	8	6	0.00007	0.00015	0	0.0001	<LOR	0.0005
Watermelon	8	4	0.0013	0.0018	0.00056	0.0011	<LOR	0.0070
Wine, red	8	1	0.0014	0.0014	0.0012	0.0012	<LOR	0.0029
Wine, white	8	0	0.0027	0.0027	0.0011	0.0011	0.0005	0.0075
Yoghurt, fruit, full fat	8	5	0.00043	0.0011	0	0.0010	<LOR	0.0012

Table A10.5 – Concentrations of lead in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.
 'nd' means result less than the limit of reporting (LOR).
 Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	1	0.0028	0.0040	0.0018	0.0036	<LOR	0.0073
Apples	8	0	0.0023	0.0023	0.0022	0.0022	0.0013	0.0038
Avocados	8	5	0.0015	0.0046	0	0.005	<LOR	0.0090
Bacon	4	0	0.011	0.011	0.011	0.011	0.0081	0.015
Baked beans	4	0	0.0049	0.0049	0.0051	0.0051	0.0028	0.0067
Bananas	8	7	0.00019	0.0011	0	0.001	<LOR	0.0015
Beans, green, raw	8	0	0.0062	0.0062	0.0045	0.0045	0.0026	0.014
Beef, minced, lean	8	0	0.013	0.013	0.0038	0.0038	0.0024	0.072
Beer, full strength	4	3	0.00029	0.00067	0	0.0005	<LOR	0.0012
Beetroot, canned	4	0	0.0023	0.0023	0.0022	0.0022	0.0021	0.0026

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, savoury	4	0	0.0066	0.0066	0.0061	0.0061	0.0036	0.010
Biscuits, sweet, plain	4	0	0.013	0.013	0.0066	0.0066	0.0060	0.031
Bread, fancy	8	0	0.046	0.046	0.018	0.018	0.0052	0.25
Bread, multigrain	12	1	0.0094	0.0099	0.0088	0.0088	<LOR	0.022
Bread, white	12	0	0.010	0.010	0.0085	0.0085	0.0058	0.020
Breakfast cereal, mixed grain	4	0	0.011	0.011	0.0099	0.0099	0.0074	0.019
Breakfast cereal, single grain	4	1	0.0054	0.0067	0.0057	0.0057	<LOR	0.010
Broccoli	8	0	0.0039	0.0039	0.0035	0.0035	0.0028	0.0059
Butter	4	2	0.0025	0.0050	0.00083	0.005	<LOR	0.0083
Cabbage	8	0	0.0037	0.0037	0.0032	0.0032	0.0013	0.0080
Cake, chocolate, iced	4	0	0.023	0.023	0.023	0.023	0.014	0.034
Capsicum	8	2	0.0020	0.0022	0.0020	0.0020	<LOR	0.0047
Carrots	10	0	0.0047	0.0047	0.0046	0.0046	0.0023	0.0086
Cauliflower	8	0	0.0027	0.0027	0.0025	0.0025	0.0012	0.0052
Celery	8	1	0.0038	0.0039	0.0037	0.0037	<LOR	0.0073
Cheese, cheddar	10	3	0.0030	0.0045	0.0036	0.0048	<LOR	0.0060
Chicken breast	10	0	0.0047	0.0047	0.0043	0.0043	0.0022	0.0088

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chicken mince	10	0	0.0052	0.0052	0.0030	0.0030	0.0020	0.017
Chocolate, milk	4	0	0.028	0.028	0.022	0.022	0.012	0.056
Coconut, dessicated	4	1	0.0095	0.011	0.0076	0.0076	<LOR	0.023
Coffee, espresso	4	0	0.042	0.042	0.033	0.033	0.0012	0.10
Coffee, instant	4	0	0.0018	0.0018	0.0015	0.0015	0.0009	0.0033
Cucumber	8	3	0.0014	0.0018	0.0017	0.0017	<LOR	0.0032
Dried apricots	4	0	0.025	0.025	0.024	0.024	0.020	0.030
Eggs	10	3	0.0019	0.0022	0.0022	0.0022	<LOR	0.0039
Fish fillets, battered	10	0	0.0055	0.0055	0.0049	0.0049	0.0024	0.010
Fish portions, frozen	4	0	0.0040	0.0040	0.0033	0.0033	0.0022	0.0072
Grapes	8	4	0.00095	0.0015	0.00033	0.001	<LOR	0.0035
Ham, sliced	4	0	0.014	0.014	0.011	0.011	0.010	0.025
Hamburger	8	0	0.0075	0.0075	0.0061	0.0061	0.0033	0.018
Honey	4	0	0.052	0.052	0.040	0.040	0.032	0.095
Ice cream, full fat, vanilla	4	1	0.0018	0.0020	0.0011	0.0011	<LOR	0.0049
Infant cereal, mixed	4	0	0.0031	0.0031	0.0030	0.0030	0.0013	0.0053
Infant dessert, milk based	4	1	0.0015	0.0017	0.0016	0.0017	<LOR	0.0028

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant dinner	4	0	0.0029	0.0029	0.0016	0.0016	0.0010	0.0076
Infant formula	4	1	0.0011	0.0013	0.0010	0.0010	<LOR	0.0025
Juice, fruit	4	0	0.00098	0.00098	0.00073	0.00073	0.0005	0.0019
Kiwifruit	8	5	0.0011	0.0017	0	0.001	<LOR	0.0045
Lamb chops, loin	10	0	0.0083	0.0083	0.0073	0.0073	0.0049	0.020
Lettuce	8	3	0.0055	0.0059	0.0020	0.0020	<LOR	0.031
Liver pate (chicken)	4	0	0.0066	0.0066	0.0068	0.0068	0.0047	0.0080
Mango	4	2	0.0014	0.0019	0.00077	0.0013	<LOR	0.0040
Margarine, monounsaturated	4	3	0.00025	0.0040	0	0.005	<LOR	0.0010
Milk, full fat	16	7	0.00070	0.00092	0.00055	0.00055	<LOR	0.0049
Mushrooms	8	0	0.0028	0.0028	0.0024	0.0024	0.0013	0.0050
Nectarine	8	0	0.0027	0.0027	0.0028	0.0028	0.0014	0.0038
Oats, rolled	4	0	0.0026	0.0026	0.0025	0.0025	0.0020	0.0034
Oil, canola and olive	4	4	0	0.005	0	0.005	<LOR	<LOR
Onions	8	4	0.0010	0.0015	0.00086	0.0014	<LOR	0.0024
Orange	8	3	0.0011	0.0015	0.0012	0.0012	<LOR	0.0025

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Pasta	4	1	0.0057	0.0060	0.0042	0.0042	<LOR	0.015
Peach, natural juice	4	0	0.017	0.017	0.014	0.014	0.011	0.030
Peanut butter	4	0	0.0047	0.0047	0.0046	0.0046	0.0024	0.0070
Pear, natural juice	4	0	0.022	0.022	0.024	0.024	0.0077	0.032
Peas, frozen	4	0	0.0029	0.0029	0.0028	0.0028	0.0020	0.0041
Pie, meat	4	0	0.056	0.056	0.032	0.032	0.017	0.14
Pineapple, canned in natural juice	4	0	0.024	0.024	0.020	0.020	0.014	0.041
Pizza, meat and vegetable topping	4	0	0.0081	0.0081	0.0078	0.0078	0.0054	0.012
Potato	12	0	0.0037	0.0037	0.0023	0.0023	0.0011	0.011
Potato crisps	4	0	0.0039	0.0039	0.0041	0.0041	0.0028	0.0047
Prawns	8	0	0.010	0.010	0.0081	0.0081	0.0050	0.019
Pumpkin	8	0	0.0028	0.0028	0.0021	0.0021	0.0010	0.0075
Rice, white, long grain	4	1	0.0032	0.0034	0.0029	0.0029	<LOR	0.0070
Sauce, tomato	4	0	0.0030	0.0030	0.0031	0.0031	0.0020	0.0038
Sausages, beef	10	0	0.012	0.012	0.0054	0.0054	0.0038	0.057
Savoury sauce, non tomato	4	0	0.016	0.016	0.013	0.013	0.0070	0.031
Soft drink	4	3	0.0013	0.0017	0	0.0005	<LOR	0.0053

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Soy beverage, full fat	4	0	0.0033	0.0033	0.0027	0.0027	0.0013	0.0066
Strawberries	8	0	0.0031	0.0031	0.0023	0.0023	0.0015	0.0066
Sugar, white	4	4	0	0.005	0	0.005	<LOR	<LOR
Sultanas	4	0	0.013	0.013	0.014	0.014	0.0080	0.016
Sweetcorn, kernels, frozen	4	0	0.0033	0.0033	0.0020	0.0020	0.0015	0.0077
Tea	4	1	0.00074	0.00087	0.00085	0.00085	<LOR	0.0013
Tomatoes, canned	4	0	0.011	0.011	0.011	0.011	0.0074	0.014
Tomatoes, raw	8	5	0.00065	0.0013	0	0.001	<LOR	0.0014
Tuna, canned in brine	4	0	0.0032	0.0032	0.0028	0.0028	0.0019	0.0052
Water, bottled	4	3	0.00008	0.00016	0	0.0001	<LOR	0.0003
Water, tap	8	3	0.0059	0.0060	0.0010	0.0010	<LOR	0.018
Watermelon	8	2	0.0010	0.0013	0.0012	0.0012	<LOR	0.0020
Wine, red	8	0	0.0053	0.0053	0.0047	0.0047	0.0033	0.0085
Wine, white	8	0	0.013	0.013	0.013	0.013	0.0074	0.018
Yoghurt, fruit, full fat	8	0	0.0022	0.0022	0.0021	0.0021	0.0011	0.0043

Table A10.6 – Concentrations of inorganic mercury in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

Results for all other foods are assumed to be equal to the content of total mercury (See Table A10.7)

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Fish fillets, battered	10	0	0.015	0.015	0.016	0.016	0.0054	0.021
Fish portions, frozen	4	0	0.019	0.019	0.020	0.020	0.014	0.023
Prawns	8	0	0.012	0.012	0.011	0.011	0.0058	0.024
Tuna, canned in brine	4	0	0.0084	0.0084	0.0064	0.0064	0.0037	0.017

Table A10.7 – Concentrations of mercury (total) in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	2	0.0026	0.0051	0.0018	0.0050	<LOR	0.0066
Apples	8	2	0.0015	0.0018	0.0017	0.0015	<LOR	0.0027
Avocados	8	3	0.0038	0.0057	0.0023	0.0050	<LOR	0.013
Bacon	4	0	0.0040	0.0040	0.0030	0.0030	0.0017	0.0082
Baked beans	4	2	0.0009	0.0014	0.00056	0.0011	<LOR	0.0024
Bananas	8	2	0.0012	0.0014	0.0014	0.0014	<LOR	0.0019
Beans, green, raw	8	3	0.0013	0.0017	0.0015	0.0015	<LOR	0.0035
Beef, minced, lean	8	1	0.0016	0.0017	0.0017	0.0017	<LOR	0.0029
Beer, full strength	4	4	0	0.00050	0	0.00050	<LOR	<LOR
Beetroot, canned	4	1	0.0013	0.0015	0.0014	0.0014	<LOR	0.0024
Biscuits, savoury	4	2	0.0036	0.0061	0.0013	0.0050	<LOR	0.012

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	2	0.0027	0.0052	0.0016	0.0050	<LOR	0.0074
Bread, fancy	8	1	0.0061	0.0067	0.0066	0.0066	<LOR	0.010
Bread, multigrain	12	4	0.0035	0.0051	0.0029	0.0050	<LOR	0.010
Bread, white	12	3	0.0046	0.0058	0.0043	0.0051	<LOR	0.010
Breakfast cereal, mixed grain	4	3	0.0009	0.0047	0	0.0050	<LOR	0.0038
Breakfast cereal, single grain	4	3	0.0028	0.0066	0	0.0050	<LOR	0.011
Broccoli	8	1	0.0020	0.0021	0.0018	0.0018	<LOR	0.0047
Butter	4	1	0.0035	0.0047	0.0037	0.0056	<LOR	0.0065
Cabbage	8	4	0.0008	0.0013	0.00062	0.0011	<LOR	0.0019
Cake, chocolate, iced	4	1	0.0057	0.0059	0.0064	0.0064	<LOR	0.0098
Capsicum	8	3	0.0014	0.0017	0.0019	0.0019	<LOR	0.0026
Carrots	10	1	0.0027	0.0028	0.0022	0.0022	<LOR	0.0073
Cauliflower	8	2	0.0010	0.0013	0.0011	0.0011	<LOR	0.0019
Celery	8	1	0.0014	0.0016	0.0015	0.0015	<LOR	0.0026
Cheese, cheddar	10	4	0.0059	0.0079	0.0031	0.0050	<LOR	0.021
Chicken breast	10	3	0.0020	0.0023	0.0018	0.0018	<LOR	0.0073
Chicken mince	10	3	0.0020	0.0023	0.0017	0.0017	<LOR	0.0089

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chocolate, milk	4	0	0.0076	0.0076	0.0078	0.0078	0.0056	0.0094
Coconut, dessicated	4	2	0.0042	0.0067	0.0034	0.0059	<LOR	0.010
Coffee, espresso	4	1	0.0016	0.0017	0.00062	0.00062	<LOR	0.0052
Coffee, instant	4	3	0.00010	0.00050	0	0.00050	<LOR	0.0005
Cucumber	8	4	0.0023	0.0028	0.00060	0.0011	<LOR	0.013
Dried apricots	4	2	0.0041	0.0046	0.0036	0.0041	<LOR	0.0094
Eggs	10	0	0.0029	0.0029	0.0018	0.0018	0.0010	0.0091
Fish fillets, battered	10	0	0.15	0.15	0.14	0.14	0.031	0.39
Fish portions, frozen	4	0	0.10	0.10	0.10	0.10	0.042	0.15
Grapes	8	3	0.0014	0.0018	0.0017	0.0017	<LOR	0.0031
Ham, sliced	4	0	0.0041	0.0041	0.0024	0.0024	0.0022	0.0094
Hamburger	8	1	0.0025	0.0026	0.0018	0.0018	<LOR	0.006
Honey	4	1	0.0041	0.0053	0.0035	0.0052	<LOR	0.0094
Ice cream, full fat, vanilla	4	1	0.0057	0.0059	0.0022	0.0022	<LOR	0.018
Infant cereal, mixed	4	2	0.0011	0.0016	0.00094	0.0014	<LOR	0.0027
Infant dessert, milk based	4	2	0.0012	0.0017	0.00056	0.0011	<LOR	0.0038
Infant dinner	4	1	0.0020	0.0023	0.0016	0.0016	<LOR	0.0049

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant formula	4	2	0.00043	0.00070	0.00026	0.00051	<LOR	0.0012
Juice, fruit	4	3	0.00019	0.00056	0	0.00050	<LOR	0.0007
Kiwifruit	8	4	0.0010	0.0015	0.00051	0.0010	<LOR	0.0030
Lamb chops, loin	10	2	0.0029	0.0031	0.0020	0.0020	<LOR	0.013
Lettuce	8	3	0.0014	0.0018	0.0018	0.0018	<LOR	0.0030
Liver pate (chicken)	4	1	0.0015	0.0017	0.0019	0.0019	<LOR	0.0022
Mango	4	2	0.0009	0.0014	0.00077	0.0013	<LOR	0.0020
Margarine, monounsaturated	4	2	0.0020	0.0045	0.00060	0.0050	<LOR	0.0067
Milk, full fat	16	11	0.00023	0.00058	0	0.00050	<LOR	0.0011
Mushrooms	8	1	0.82	0.82	0.0026	0.0026	<LOR	6.5
Nectarine	8	2	0.0019	0.0022	0.0015	0.0015	<LOR	0.0058
Oats, rolled	4	1	0.0010	0.0012	0.0012	0.0012	<LOR	0.0015
Oil, canola and olive	4	4	0	0.0050	0	0.0050	<LOR	<LOR
Onions	8	1	0.0055	0.0056	0.0016	0.0016	<LOR	0.033
Orange	8	3	0.0013	0.0017	0.0013	0.0013	<LOR	0.0032
Pasta	4	3	0.00063	0.0014	0	0.0010	<LOR	0.0025

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Peach, natural juice	4	2	0.0022	0.0027	0.00078	0.0013	<LOR	0.0073
Peanut butter	4	3	0.0017	0.0055	0	0.0050	<LOR	0.0069
Pear, natural juice	4	2	0.0024	0.0029	0.00082	0.0013	<LOR	0.0078
Peas, frozen	4	0	0.0019	0.0019	0.0018	0.0018	0.0012	0.0027
Pie, meat	4	1	0.0029	0.0031	0.0029	0.0029	<LOR	0.0056
Pineapple, canned in natural juice	4	2	0.0010	0.0015	0.0010	0.0015	<LOR	0.0022
Pizza, meat and vegetable topping	4	1	0.0025	0.0028	0.0022	0.0022	<LOR	0.0057
Potato	12	3	0.0020	0.0023	0.0018	0.0018	<LOR	0.0083
Potato crisps	4	1	0.0052	0.0064	0.0058	0.0058	<LOR	0.0091
Prawns	8	0	0.042	0.042	0.040	0.040	0.019	0.092
Pumpkin	8	2	0.0015	0.0017	0.0017	0.0017	<LOR	0.0027
Rice, white, long grain	4	2	0.0023	0.0028	0.00093	0.00093	<LOR	0.0074
Sauce, tomato	4	0	0.0031	0.0031	0.0028	0.0028	0.0021	0.0048
Sausages, beef	10	1	0.0022	0.0023	0.0023	0.0023	<LOR	0.0047
Savoury sauce, non tomato	4	1	0.0019	0.0022	0.0017	0.0017	<LOR	0.0042
Soft drink	4	3	0.00014	0.00052	0	0.00050	<LOR	0.00057
Soy beverage, full fat	4	4	0	0.00050	0	0.00050	<LOR	<LOR

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Strawberries	8	3	0.00097	0.0013	0.0013	0.0013	<LOR	0.0021
Sugar, white	4	3	0.029	0.033	0	0.0050	<LOR	0.12
Sultanas	4	1	0.0039	0.0041	0.0021	0.0021	<LOR	0.011
Sweetcorn, kernels, frozen	4	2	0.0009	0.0014	0.00089	0.0014	<LOR	0.0019
Tea	4	3	0.00023	0.00060	0	0.00050	<LOR	0.0009
Tomatoes, canned	4	1	0.0010	0.0013	0.0012	0.0012	<LOR	0.0018
Tomatoes, raw	8	4	0.0011	0.0016	0.00054	0.0010	<LOR	0.0035
Tuna, canned in brine	4	0	0.057	0.057	0.060	0.060	0.041	0.067
Water, bottled	4	2	0.00013	0.00018	0.000065	0.00012	<LOR	0.0004
Water, tap	8	3	0.00026	0.00030	0.00023	0.00023	<LOR	0.0008
Watermelon	8	1	0.0013	0.0014	0.0015	0.0015	<LOR	0.0017
Wine, red	8	5	0.00028	0.00059	0	0.00050	<LOR	0.0010
Wine, white	8	5	0.00038	0.00069	0	0.00050	<LOR	0.0016
Yoghurt, fruit, full fat	8	2	0.0016	0.0018	0.0013	0.0013	<LOR	0.0057

Table A10.8 – Concentrations of methylmercury in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Fish fillets, battered	10	0	0.12	0.12	0.11	0.11	0.0078	0.31
Fish portions, frozen	4	0	0.040	0.040	0.038	0.038	0.034	0.060
Prawns	8	0	0.014	0.014	0.014	0.014	0.0069	0.020
Tuna, canned in brine	4	0	0.029	0.029	0.031	0.031	0.017	0.038

Table A10.9 – Concentrations of strontium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.
 'nd' means result less than the limit of reporting (LOR).
 Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Almonds	4	0	24.7	24.7	24.7	24.7	23.2	26.3
Apples	8	1	0.17	0.17	0.2	0.2	<LOR	0.26
Avocados	8	0	0.61	0.61	0.60	0.60	0.39	0.86
Bacon	4	0	0.86	0.86	0.89	0.89	0.54	1.1
Baked beans	4	0	0.99	0.99	0.92	0.92	0.58	1.5
Bananas	8	0	0.23	0.23	0.21	0.21	0.11	0.41
Beans, green, raw	8	0	4.1	4.1	4.1	4.1	2.4	5.8
Beef, minced, lean	8	4	0.055	0.060	0.044	0.049	<LOR	0.13
Beer, full strength	4	1	0.11	0.14	0.13	0.13	<LOR	0.20
Beetroot, canned	4	0	2.0	2.0	1.8	1.8	1.7	2.9

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Biscuits, savoury	4	1	1.6	1.6	2.0	2.0	<LOR	2.5
Biscuits, sweet, plain	4	0	1.6	1.6	1.6	1.6	1.4	1.9
Bread, fancy	8	0	2.6	2.6	2.6	2.6	1.8	3.2
Bread, multigrain	12	0	3.0	3.0	2.8	2.8	2.1	4.4
Bread, white	12	0	2.4	2.4	2.3	2.3	1.7	3.4
Breakfast cereal, mixed grain	4	0	5.5	5.5	5.0	5.0	4.3	7.5
Breakfast cereal, single grain	4	0	5.3	5.3	4.2	4.2	3.3	9.5
Broccoli	8	0	2.1	2.1	1.7	1.7	1.1	4.2
Butter	4	0	0.86	0.86	0.88	0.88	0.68	0.99
Cabbage	8	0	2.3	2.3	2.1	2.1	1.3	3.6
Cake, chocolate, iced	4	0	1.7	1.7	1.8	1.8	1.4	1.8
Capsicum	8	0	0.31	0.31	0.28	0.28	0.17	0.59
Carrots	10	0	2.1	2.1	2.0	2.0	0.20	4.6
Cauliflower	8	0	0.84	0.84	0.68	0.68	0.52	1.5
Celery	8	0	1.3	1.3	1.1	1.1	0.34	2.3
Cheese, cheddar	10	0	4.7	4.7	4.6	4.6	3.0	6.8
Chicken breast	10	6	0.035	0.041	0	0.01	<LOR	0.14

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Chicken mince	10	5	0.046	0.051	0.025	0.030	<LOR	0.15
Chocolate, milk	4	0	2.3	2.3	2.1	2.1	2.0	3.1
Coconut, dessicated	4	0	0.68	0.68	0.72	0.72	0.48	0.81
Coffee, espresso	4	0	0.34	0.34	0.37	0.37	0.17	0.47
Coffee, instant	4	0	0.50	0.50	0.47	0.47	0.39	0.66
Cucumber	8	0	0.98	0.98	0.98	0.98	0.31	1.6
Dried apricots	4	0	5.9	5.9	5.3	5.3	4.6	8.2
Eggs	10	0	0.69	0.69	0.46	0.46	0.37	2.6
Fish fillets, battered	10	0	0.89	0.89	0.83	0.83	0.48	1.5
Fish portions, frozen	4	0	1.0	1.0	0.92	0.92	0.66	1.6
Grapes	8	0	0.97	0.97	0.95	0.95	0.64	1.3
Ham, sliced	4	0	0.99	0.99	1.0	1.0	0.52	1.4
Hamburger	8	0	1.8	1.8	1.8	1.8	1.4	2.3
Honey	4	0	0.48	0.48	0.50	0.50	0.40	0.51
Ice cream, full fat, vanilla	4	0	0.74	0.74	0.51	0.51	0.42	1.5
Infant cereal, mixed	4	0	0.58	0.58	0.62	0.62	0.35	0.73
Infant dessert, milk based	4	0	0.24	0.24	0.23	0.23	0.21	0.29

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Infant dinner	4	0	0.49	0.49	0.47	0.47	0.40	0.61
Infant formula	4	0	0.36	0.36	0.33	0.33	0.24	0.53
Juice, fruit	4	0	0.28	0.28	0.29	0.29	0.23	0.31
Kiwifruit	8	0	1.5	1.5	1.6	1.6	0.97	1.9
Lamb chops, loin	10	0	1.0	1.0	0.59	0.59	0.38	5.0
Lettuce	8	0	1.3	1.3	1.2	1.2	0.65	2.4
Liver pate (chicken)	4	0	1.2	1.2	1.2	1.2	1.0	1.4
Mango	4	0	0.35	0.35	0.32	0.32	0.27	0.48
Margarine, monounsaturated	4	0	0.27	0.27	0.31	0.31	0.10	0.35
Milk, full fat	16	0	0.51	0.51	0.53	0.53	0.21	0.69
Mushrooms	8	4	0.029	0.034	0.022	0.027	<LOR	0.068
Nectarine	8	0	0.42	0.42	0.42	0.42	0.20	0.63
Oats, rolled	4	0	1.1	1.1	1.1	1.1	0.90	1.4
Oil, canola and olive	4	3	0.0028	0.078	0	0.1	<LOR	0.011
Onions	8	0	2.0	2.0	1.9	1.9	1.3	2.9
Orange	8	0	3.1	3.1	3.1	3.1	2.1	4.4

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Pasta	4	0	1.2	1.2	1.1	1.1	0.78	1.6
Peach, natural juice	4	0	0.25	0.25	0.24	0.24	0.20	0.32
Peanut butter	4	0	5.5	5.5	5.6	5.6	4.4	6.4
Pear, natural juice	4	0	0.27	0.27	0.28	0.28	0.22	0.31
Peas, frozen	4	0	1.4	1.4	1.4	1.4	0.68	2.3
Pie, meat	4	0	1.3	1.3	1.2	1.2	0.96	1.8
Pineapple, canned in natural juice	4	0	0.33	0.33	0.32	0.32	0.20	0.48
Pizza, meat and vegetable topping	4	0	2.8	2.8	2.9	2.9	2.3	3.2
Potato	12	0	0.43	0.43	0.43	0.43	0.26	0.76
Potato crisps	4	0	2.5	2.5	2.2	2.2	1.7	3.6
Prawns	8	0	7.1	7.1	6.9	6.9	5.9	9.1
Pumpkin	8	0	1.8	1.8	1.5	1.5	0.74	4.8
Rice, white, long grain	4	0	0.24	0.24	0.24	0.24	0.21	0.26
Sauce, tomato	4	0	1.2	1.2	1.1	1.1	0.69	2.0
Sausages, beef	10	0	0.84	0.84	0.81	0.81	0.66	1.1
Savoury sauce, non tomato	4	0	2.7	2.7	2.6	2.6	1.5	3.9
Soft drink	4	2	0.027	0.077	0.016	0.087	<LOR	0.075

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=LOR)	Median (nd=0)	Median (nd=LOR)	Minimum	Maximum
Soy beverage, full fat	4	0	0.54	0.54	0.58	0.58	0.30	0.68
Strawberries	8	0	0.83	0.83	0.85	0.85	0.54	1.1
Sugar, white	4	4	0	0.1	0	0.1	<LOR	<LOR
Sultanas	4	0	7.5	7.5	7.0	7.0	5.4	10
Sweetcorn, kernels, frozen	4	0	0.26	0.26	0.27	0.27	0.10	0.39
Tea	4	1	0.11	0.14	0.13	0.13	<LOR	0.18
Tomatoes, canned	4	0	0.57	0.57	0.53	0.53	0.51	0.70
Tomatoes, raw	8	0	0.38	0.38	0.36	0.36	0.10	0.65
Tuna, canned in brine	4	0	0.55	0.55	0.56	0.56	0.37	0.71
Water, bottled	4	2	0.036	0.086	0.032	0.091	<LOR	0.081
Water, tap	8	1	0.098	0.11	0.054	0.082	<LOR	0.23
Watermelon	8	0	0.36	0.36	0.33	0.33	0.10	0.76
Wine, red	8	0	1.9	1.9	2.0	2.0	1.4	2.3
Wine, white	8	0	0.97	0.97	0.98	0.98	0.83	1.1
Yoghurt, fruit, full fat	8	0	0.91	0.91	0.85	0.85	0.59	1.3

Appendix 11: Concentrations of nutrients in foods

Table A11.1 – Concentrations of calcium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	2,900	2,900	2,500	3,000
Apples	8	0	52	52	44	59
Avocados	8	0	110	110	77	170
Bacon	4	0	90	90	75	100
Baked beans	4	0	430	430	410	480
Bananas	8	0	59	59	45	90
Beans, green, raw	8	0	510	510	460	580
Beef, minced, lean	8	0	67	67	50	110
Beer, full strength	4	0	38	38	24	56

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Beetroot, canned	4	0	120	120	100	150
Biscuits, savoury	4	0	710	710	500	910
Biscuits, sweet, plain	4	0	260	260	180	350
Bread, fancy	8	0	940	940	660	1,300
Bread, multigrain	12	0	830	830	390	1,600
Bread, white	12	0	780	780	450	1,400
Breakfast cereal, mixed grain	4	0	950	950	500	1,200
Breakfast cereal, single grain	4	0	1,300	1,300	880	1,800
Broccoli	8	0	360	360	280	470
Butter	4	0	190	190	180	220
Cabbage	8	0	390	390	360	450
Cake, chocolate, iced	4	0	370	370	330	420
Capsicum	8	0	76	76	44	120
Carrots	10	0	290	290	230	340
Cauliflower	8	0	180	180	150	210
Celery	8	0	360	360	210	430
Cheese, cheddar	10	0	8,000	8,000	7,400	9,100

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chicken breast	10	0	65	65	44	99
Chicken mince	10	0	84	84	52	160
Chocolate, milk	4	0	2,200	2,200	1,400	2,700
Coconut, dessicated	4	0	180	180	160	220
Coffee, espresso	4	0	77	77	39	98
Coffee, instant	4	0	81	81	54	120
Cucumber	8	0	150	150	97	210
Dried apricots	4	0	750	750	690	800
Eggs	10	0	570	570	450	760
Fish fillets, battered	10	0	170	170	110	300
Fish portions, frozen	4	0	330	330	170	480
Grapes	8	0	140	140	110	250
Ham, sliced	4	0	100	100	83	130
Hamburger	8	0	770	770	470	1,000
Honey	4	0	98	98	75	130
Ice cream, full fat, vanilla	4	0	1,300	1,300	790	2,500
Infant cereal, mixed	4	0	120	120	76	190

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant dessert, milk based	4	0	310	310	230	390
Infant dinner	4	0	120	120	49	180
Infant formula	4	0	680	680	420	1,300
Juice, fruit	4	0	70	70	56	81
Kiwifruit	8	0	350	350	210	470
Lamb chops, loin	10	0	320	320	210	490
Lettuce	8	0	240	240	170	410
Liver pate (chicken)	4	0	240	240	220	260
Mango	4	0	94	94	89	97
Margarine, monounsaturated	4	0	84	84	37	120
Milk, full fat	16	0	1,100	1,100	940	1,200
Mushrooms	8	0	29	29	14	66
Nectarine	8	0	81	81	56	99
Oats, rolled	4	0	130	130	110	150
Oil, canola and olive	4	0	1.3	1.3	1	2.2
Onions	8	0	190	190	150	230

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Orange	8	0	370	370	270	570
Pasta	4	0	150	150	140	180
Peach, natural juice	4	0	43	43	34	52
Peanut butter	4	0	630	630	490	720
Pear, natural juice	4	0	73	73	34	110
Peas, frozen	4	0	290	290	260	330
Pie, meat	4	0	340	340	170	780
Pineapple, canned in natural juice	4	0	97	97	78	110
Pizza, meat and vegetable topping	4	0	1,700	1,700	1,500	1,900
Potato	12	0	54	54	37	79
Potato crisps	4	0	290	290	150	380
Prawns	8	0	830	830	630	1,100
Pumpkin	8	0	170	170	100	290
Rice, white, long grain	4	0	79	79	43	140
Sauce, tomato	4	0	140	140	120	160
Sausages, beef	10	0	130	130	93	270
Savoury sauce, non tomato	4	0	240	240	140	350

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Soft drink	4	0	16	16	7.6	20
Soy beverage, full fat	4	0	530	530	280	690
Strawberries	8	0	240	240	180	290
Sugar, white	4	0	18	18	12	23
Sultanas	4	0	600	600	560	660
Sweetcorn, kernels, frozen	4	0	40	40	36	42
Tea	4	0	19	19	14	23
Tomatoes, canned	4	0	210	210	140	250
Tomatoes, raw	8	0	83	83	59	120
Tuna, canned in brine	4	0	87	87	52	110
Water, bottled	4	0	6.6	6.6	2	11
Water, tap	8	0	16	16	5.7	28
Watermelon	8	0	89	89	43	170
Wine, red	8	0	85	85	70	110
Wine, white	8	0	84	84	53	120
Yoghurt, fruit, full fat	8	0	1,500	1,500	1,200	1,700

Table A11.2 – Concentrations of chromium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	1	0.057	0.12	<LOR	0.11
Apples	8	4	0.016	0.028	<LOR	0.041
Avocados	8	4	0.014	0.14	<LOR	0.029
Bacon	4	1	0.14	0.15	<LOR	0.23
Baked beans	4	2	0.046	0.059	<LOR	0.12
Bananas	8	4	0.026	0.039	<LOR	0.068
Beans, green, raw	8	4	0.016	0.029	<LOR	0.034
Beef, minced, lean	8	1	0.083	0.087	<LOR	0.22
Beer, full strength	4	2	0.0076	0.014	<LOR	0.017
Beetroot, canned	4	2	0.029	0.041	<LOR	0.064
Biscuits, savoury	4	1	0.092	0.15	<LOR	0.17

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	2	0.089	0.21	<LOR	0.19
Bread, fancy	8	2	0.091	0.15	<LOR	0.17
Bread, multigrain	12	6	0.07	0.2	<LOR	0.17
Bread, white	12	5	0.068	0.17	<LOR	0.15
Breakfast cereal, mixed grain	4	2	0.087	0.21	<LOR	0.18
Breakfast cereal, single grain	4	1	0.13	0.19	<LOR	0.20
Broccoli	8	4	0.017	0.029	<LOR	0.04
Butter	4	2	0.031	0.16	<LOR	0.073
Cabbage	8	4	0.011	0.023	<LOR	0.028
Cake, chocolate, iced	4	1	0.12	0.13	<LOR	0.17
Capsicum	8	4	0.01	0.023	<LOR	0.022
Carrots	10	5	0.017	0.029	<LOR	0.043
Cauliflower	8	4	0.011	0.023	<LOR	0.029
Celery	8	4	0.014	0.026	<LOR	0.035
Cheese, cheddar	10	2	0.077	0.13	<LOR	0.14
Chicken breast	10	3	0.045	0.053	<LOR	0.073
Chicken mince	10	3	0.069	0.076	<LOR	0.19

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	1	0.16	0.23	<LOR	0.27
Coconut, dessicated	4	1	0.047	0.11	<LOR	0.07
Coffee, espresso	4	2	0.0056	0.012	<LOR	0.011
Coffee, instant	4	2	0.0058	0.012	<LOR	0.013
Cucumber	8	4	0.0066	0.019	<LOR	0.014
Dried apricots	4	2	0.061	0.074	<LOR	0.14
Eggs	10	5	0.03	0.043	<LOR	0.10
Fish fillets, battered	10	5	0.051	0.064	<LOR	0.17
Fish portions, frozen	4	1	0.083	0.089	<LOR	0.17
Grapes	8	8	0	0.025	<LOR	<LOR
Ham, sliced	4	0	0.24	0.24	<LOR	0.35
Hamburger	8	3	0.098	0.11	<LOR	0.26
Honey	4	2	0.046	0.17	<LOR	0.096
Ice cream, full fat, vanilla	4	2	0.039	0.051	<LOR	0.077
Infant cereal, mixed	4	2	0.022	0.034	<LOR	0.051
Infant dessert, milk based	4	2	0.023	0.035	<LOR	0.047
Infant dinner	4	2	0.022	0.035	<LOR	0.067

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	2	0.018	0.025	<LOR	0.037
Juice, fruit	4	2	0.016	0.023	<LOR	0.033
Kiwifruit	8	4	0.022	0.035	<LOR	0.047
Lamb chops, loin	10	4	0.044	0.054	<LOR	0.13
Lettuce	8	4	0.01	0.023	<LOR	0.021
Liver pate (chicken)	4	1	0.064	0.07	<LOR	0.11
Mango	4	3	0.39	0.41	<LOR	1.6
Margarine, monounsaturated	4	2	0.035	0.16	<LOR	0.08
Milk, full fat	16	7	0.019	0.025	<LOR	0.044
Mushrooms	8	4	0.014	0.027	<LOR	0.032
Nectarine	8	8	0	0.025	<LOR	<LOR
Oats, rolled	4	2	0.015	0.027	<LOR	0.03
Oil, canola and olive	4	2	0.1	0.23	<LOR	0.21
Onions	8	4	0.014	0.027	<LOR	0.031
Orange	8	3	0.023	0.032	<LOR	0.07
Pasta	4	2	0.028	0.041	<LOR	0.066

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	2	0.03	0.043	<LOR	0.061
Peanut butter	4	2	0.066	0.19	<LOR	0.15
Pear, natural juice	4	2	0.035	0.047	<LOR	0.075
Peas, frozen	4	2	0.029	0.041	<LOR	0.059
Pie, meat	4	2	0.044	0.056	<LOR	0.091
Pineapple, canned in natural juice	4	1	0.087	0.093	<LOR	0.13
Pizza, meat and vegetable topping	4	1	0.099	0.11	<LOR	0.19
Potato	12	6	0.027	0.04	<LOR	0.068
Potato crisps	4	1	0.071	0.13	<LOR	0.12
Prawns	8	3	0.066	0.076	<LOR	0.16
Pumpkin	8	4	0.019	0.031	<LOR	0.054
Rice, white, long grain	4	2	0.033	0.045	<LOR	0.067
Sauce, tomato	4	2	0.047	0.06	<LOR	0.12
Sausages, beef	10	3	0.084	0.092	<LOR	0.17
Savoury sauce, non tomato	4	1	0.093	0.099	<LOR	0.16
Soft drink	4	2	0.0091	0.015	<LOR	0.02
Soy beverage, full fat	4	2	0.022	0.028	<LOR	0.045

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	8	0	0.025	<LOR	<LOR
Sugar, white	4	2	0.054	0.18	<LOR	0.12
Sultanas	4	2	0.055	0.067	<LOR	0.11
Sweetcorn, kernels, frozen	4	1	0.051	0.057	<LOR	0.087
Tea	4	2	0.0029	0.0092	<LOR	0.0067
Tomatoes, canned	4	1	0.062	0.068	<LOR	0.09
Tomatoes, raw	8	4	0.0086	0.021	<LOR	0.018
Tuna, canned in brine	4	2	0.041	0.054	<LOR	0.086
Water, bottled	4	3	0.0004	0.0017	<LOR	0.0017
Water, tap	8	5	0.0004	0.0017	<LOR	0.0015
Watermelon	8	8	0	0.025	<LOR	<LOR
Wine, red	8	4	0.018	0.024	<LOR	0.042
Wine, white	8	4	0.015	0.021	<LOR	0.037
Yoghurt, fruit, full fat	8	4	0.032	0.045	<LOR	0.068

Table A11.3 – Concentrations of cobalt in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	0.14	0.14	0.089	0.20
Apples	8	4	0.0011	0.0036	<LOR	0.0032
Avocados	8	2	0.024	0.025	<LOR	0.071
Bacon	4	2	0.0014	0.0039	<LOR	0.0027
Baked beans	4	0	0.019	0.019	0.016	0.020
Bananas	8	4	0.00080	0.0033	<LOR	0.0021
Beans, green, raw	8	0	0.016	0.016	0.010	0.028
Beef, minced, lean	8	3	0.0056	0.0075	<LOR	0.029
Beer, full strength	4	4	0	0.0026	<LOR	<LOR
Beetroot, canned	4	0	0.028	0.028	0.020	0.039
Biscuits, savoury	4	0	0.016	0.016	0.010	0.021

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	0.021	0.021	0.010	0.035
Bread, fancy	8	0	0.023	0.023	0.014	0.038
Bread, multigrain	12	0	0.038	0.038	0.023	0.066
Bread, white	12	0	0.025	0.025	0.020	0.034
Breakfast cereal, mixed grain	4	0	0.071	0.071	0.067	0.074
Breakfast cereal, single grain	4	0	0.053	0.053	0.041	0.078
Broccoli	8	0	0.042	0.042	0.010	0.093
Butter	4	2	0.00057	0.0031	<LOR	0.0012
Cabbage	8	3	0.0032	0.0051	<LOR	0.010
Cake, chocolate, iced	4	0	0.050	0.050	0.041	0.064
Capsicum	8	0	0.015	0.015	0.010	0.025
Carrots	10	5	0.0014	0.0039	<LOR	0.005
Cauliflower	8	2	0.0069	0.0082	<LOR	0.020
Celery	8	4	0.00097	0.0035	<LOR	0.0030
Cheese, cheddar	10	0	0.022	0.022	0.016	0.026
Chicken breast	10	5	0.0013	0.0038	<LOR	0.0055
Chicken mince	10	4	0.024	0.026	<LOR	0.22

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	0.10	0.10	0.068	0.19
Coconut, dessicated	4	0	0.025	0.025	0.018	0.032
Coffee, espresso	4	0	0.011	0.011	0.0068	0.019
Coffee, instant	4	0	0.018	0.018	0.011	0.026
Cucumber	8	3	0.0041	0.006	<LOR	0.020
Dried apricots	4	0	0.036	0.036	0.026	0.047
Eggs	10	5	0.0018	0.0043	<LOR	0.0043
Fish fillets, battered	10	5	0.0027	0.0052	<LOR	0.0070
Fish portions, frozen	4	2	0.0035	0.0060	<LOR	0.0078
Grapes	8	8	0	0.0050	<LOR	<LOR
Ham, sliced	4	2	0.0024	0.0049	<LOR	0.0048
Hamburger	8	0	0.016	0.016	0.010	0.021
Honey	4	2	0.0023	0.0048	<LOR	0.0048
Ice cream, full fat, vanilla	4	2	0.0021	0.0046	<LOR	0.0057
Infant cereal, mixed	4	0	0.032	0.032	0.022	0.059
Infant dessert, milk based	4	1	0.0035	0.0048	<LOR	0.010
Infant dinner	4	1	0.0057	0.007	<LOR	0.010

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	2	0.0016	0.0041	<LOR	0.0041
Juice, fruit	4	2	0.00093	0.0034	<LOR	0.002
Kiwifruit	8	4	0.00096	0.0035	<LOR	0.0028
Lamb chops, loin	10	4	0.0048	0.0068	<LOR	0.020
Lettuce	8	2	0.0098	0.011	<LOR	0.021
Liver pate (chicken)	4	1	0.011	0.012	<LOR	0.019
Mango	4	4	0	0.0050	<LOR	<LOR
Margarine, monounsaturated	4	4	0	0.0038	<LOR	<LOR
Milk, full fat	16	8	0.0015	0.0040	<LOR	0.0038
Mushrooms	8	8	0	0.0028	<LOR	<LOR
Nectarine	8	8	0	0.0050	<LOR	<LOR
Oats, rolled	4	2	0.0054	0.0079	<LOR	0.015
Oil, canola and olive	4	4	0	0.0038	<LOR	<LOR
Onions	8	4	0.0017	0.0042	<LOR	0.0043
Orange	8	4	0.0018	0.0043	<LOR	0.0053
Pasta	4	2	0.0017	0.0042	<LOR	0.0045

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	2	0.0024	0.0049	<LOR	0.0054
Peanut butter	4	0	0.078	0.078	0.043	0.11
Pear, natural juice	4	2	0.0032	0.0057	<LOR	0.0071
Peas, frozen	4	0	0.017	0.017	0.011	0.021
Pie, meat	4	0	0.016	0.016	0.011	0.020
Pineapple, canned in natural juice	4	2	0.0029	0.0054	<LOR	0.0066
Pizza, meat and vegetable topping	4	0	0.019	0.019	0.014	0.025
Potato	12	0	0.024	0.024	0.0085	0.10
Potato crisps	4	0	0.15	0.15	0.084	0.27
Prawns	8	2	0.0089	0.010	<LOR	0.020
Pumpkin	8	1	0.024	0.024	<LOR	0.065
Rice, white, long grain	4	2	0.0024	0.0049	<LOR	0.0049
Sauce, tomato	4	0	0.011	0.011	0.010	0.013
Sausages, beef	10	4	0.0060	0.008	<LOR	0.022
Savoury sauce, non tomato	4	0	0.016	0.016	0.010	0.020
Soft drink	4	4	0	0.0026	<LOR	<LOR
Soy beverage, full fat	4	0	0.015	0.015	0.0039	0.023

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	2	0.016	0.017	<LOR	0.033
Sugar, white	4	3	0.00026	0.0034	<LOR	0.0010
Sultanas	4	0	0.010	0.010	0.0096	0.011
Sweetcorn, kernels, frozen	4	2	0.00095	0.0034	<LOR	0.0020
Tea	4	2	0.00035	0.0029	<LOR	0.0007
Tomatoes, canned	4	1	0.0068	0.0081	<LOR	0.010
Tomatoes, raw	8	4	0.0026	0.0051	<LOR	0.0074
Tuna, canned in brine	4	2	0.0012	0.0037	<LOR	0.0026
Water, bottled	4	2	0.00017	0.00020	<LOR	0.00060
Water, tap	8	6	0.000041	0.00010	<LOR	0.00020
Watermelon	8	6	0.0063	0.010	<LOR	0.030
Wine, red	8	4	0.0022	0.0047	<LOR	0.0051
Wine, white	8	4	0.0021	0.0046	<LOR	0.0048
Yoghurt, fruit, full fat	8	3	0.0040	0.0059	<LOR	0.013

Table A11.4 – Concentrations of copper in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	8.4	8.4	6.6	10
Apples	8	0	0.34	0.34	0.26	0.40
Avocados	8	0	3.2	3.2	2.7	3.5
Bacon	4	0	0.53	0.53	0.32	0.66
Baked beans	4	0	2.3	2.3	1.9	3.2
Bananas	8	0	0.86	0.86	0.67	1.2
Beans, green, raw	8	0	0.65	0.65	0.31	0.87
Beef, minced, lean	8	0	0.83	0.83	0.72	0.96
Beer, full strength	4	2	0.016	0.029	<LOR	0.033
Beetroot, canned	4	0	0.54	0.54	0.47	0.66
Biscuits, savoury	4	0	1.4	1.4	1.3	1.6

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	1.2	1.2	0.92	1.4
Bread, fancy	8	0	1.7	1.7	1.3	2.4
Bread, multigrain	12	0	2.2	2.2	1.7	3.1
Bread, white	12	0	1.5	1.5	0.96	1.9
Breakfast cereal, mixed grain	4	0	4.1	4.1	3.4	5.1
Breakfast cereal, single grain	4	0	3.2	3.2	2.3	4.2
Broccoli	8	0	0.51	0.51	0.37	0.65
Butter	4	0	0.17	0.17	0.09	0.24
Cabbage	8	0	0.17	0.17	0.16	0.20
Cake, chocolate, iced	4	0	2.1	2.1	1.9	2.4
Capsicum	8	0	0.63	0.63	0.43	0.87
Carrots	10	0	0.44	0.44	0.24	0.62
Cauliflower	8	0	0.25	0.25	0.19	0.31
Celery	8	0	0.26	0.26	0.13	0.7
Cheese, cheddar	10	0	0.4	0.4	0.034	0.59
Chicken breast	10	1	0.3	0.27	<LOR	0.37
Chicken mince	10	0	0.51	0.51	0.37	0.69

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	4.1	4.1	3.1	7.0
Coconut, dessicated	4	0	8.2	8.2	7.9	8.5
Coffee, espresso	4	0	0.58	0.58	0.45	0.80
Coffee, instant	4	0	0.12	0.12	0.06	0.14
Cucumber	8	0	0.23	0.23	0.099	0.39
Dried apricots	4	0	4.1	4.1	3.4	5.7
Eggs	10	0	0.61	0.61	0.33	0.72
Fish fillets, battered	10	0	0.51	0.51	0.15	0.72
Fish portions, frozen	4	0	0.65	0.65	0.49	0.87
Grapes	8	0	1.2	1.2	0.9	1.7
Ham, sliced	4	0	0.66	0.66	0.5	0.72
Hamburger	8	0	1	1	0.76	1.2
Honey	4	0	0.13	0.13	0.1	0.19
Ice cream, full fat, vanilla	4	0	0.097	0.097	0.076	0.13
Infant cereal, mixed	4	0	0.66	0.66	0.51	0.83
Infant dessert, milk based	4	0	0.18	0.18	0.12	0.27
Infant dinner	4	0	0.39	0.39	0.31	0.6

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	0	0.73	0.73	0.41	1.4
Juice, fruit	4	0	0.15	0.15	0.13	0.16
Kiwifruit	8	0	1.4	1.4	0.94	1.8
Lamb chops, loin	10	0	1.4	1.4	0.95	1.8
Lettuce	8	0	0.85	0.85	0.12	4.7
Liver pate (chicken)	4	0	1.7	1.7	1.3	2.0
Mango	4	0	0.81	0.81	0.53	1.2
Margarine, monounsaturated	4	0	0.14	0.14	0.06	0.19
Milk, full fat	16	7	0.021	0.032	<LOR	0.054
Mushrooms	8	0	2.8	2.8	1.7	4.0
Nectarine	8	0	0.88	0.88	0.57	1.2
Oats, rolled	4	0	0.67	0.67	0.43	0.86
Oil, canola and olive	4	3	0.0084	0.024	<LOR	0.034
Onions	8	0	0.40	0.40	0.32	0.55
Orange	8	0	0.45	0.45	0.37	0.56
Pasta	4	0	1.4	1.4	1.2	1.6

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	0	0.44	0.44	0.37	0.51
Peanut butter	4	0	6.2	6.2	5.3	7.3
Pear, natural juice	4	0	0.42	0.42	0.33	0.51
Peas, frozen	4	0	1.3	1.3	1.1	1.4
Pie, meat	4	0	0.96	0.96	0.83	1.0
Pineapple, canned in natural juice	4	0	0.47	0.47	0.34	0.57
Pizza, meat and vegetable topping	4	0	1.3	1.3	1.1	1.4
Potato	12	0	0.52	0.52	0.2	1.4
Potato crisps	4	0	1.3	1.3	0.97	1.7
Prawns	8	0	8.8	8.8	5	11
Pumpkin	8	0	0.59	0.59	0.32	0.98
Rice, white, long grain	4	0	0.85	0.85	0.68	1.2
Sauce, tomato	4	0	0.81	0.81	0.71	0.94
Sausages, beef	10	0	0.73	0.73	0.29	1.2
Savoury sauce, non tomato	4	0	0.74	0.74	0.23	1.2
Soft drink	4	2	0.0059	0.018	<LOR	0.015
Soy beverage, full fat	4	0	0.60	0.60	0.45	0.88

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	0	0.51	0.51	0.35	0.63
Sugar, white	4	4	0	0.019	<LOR	<LOR
Sultanas	4	0	4	4	3.8	4.4
Sweetcorn, kernels, frozen	4	0	0.42	0.42	0.37	0.48
Tea	4	0	0.071	0.071	0.052	0.084
Tomatoes, canned	4	0	0.84	0.84	0.60	1.2
Tomatoes, raw	8	0	0.39	0.39	0.23	0.71
Tuna, canned in brine	4	0	0.55	0.55	0.46	0.61
Water, bottled	4	2	0.0013	0.014	<LOR	0.0047
Water, tap	8	0	0.35	0.35	0.053	0.98
Watermelon	8	0	0.57	0.57	0.43	0.74
Wine, red	8	0	0.27	0.27	0.15	0.41
Wine, white	8	0	0.19	0.19	0.054	0.32
Yoghurt, fruit, full fat	8	1	0.11	0.11	<LOR	0.18

Table A11.5 – Concentrations of fluoride in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	4.1	4.1	3.0	5.5
Apples	8	5	1.2	1.3	<LOR	7.9
Avocados	8	5	0.49	0.65	<LOR	1.7
Bacon	4	4	0	0.25	<LOR	<LOR
Baked beans	4	2	0.33	0.45	<LOR	0.70
Bananas	8	6	0.19	0.38	<LOR	0.80
Beans, green, raw	8	5	0.33	0.48	<LOR	1.3
Beef, minced, lean	8	4	2.1	2.2	<LOR	7.8
Beer, full strength	4	0	0.34	0.34	0.05	0.50
Beetroot, canned	4	2	0.55	0.67	<LOR	1.2
Biscuits, savoury	4	0	3.0	3.0	1.8	5.8

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	8.9	8.9	4.4	21
Bread, fancy	8	3	1.0	1.1	<LOR	3.5
Bread, multigrain	12	0	1.7	1.7	0.54	3.5
Bread, white	12	1	1.7	1.7	<LOR	4.7
Breakfast cereal, mixed grain	4	0	1.6	1.6	0.82	2.5
Breakfast cereal, single grain	4	0	3.2	3.2	1.0	6.7
Broccoli	8	4	0.92	0.59	<LOR	1.4
Butter	4	1	0.76	0.82	<LOR	1.1
Cabbage	8	3	0.65	0.74	<LOR	1.9
Cake, chocolate, iced	4	2	0.58	0.70	<LOR	1.6
Capsicum	8	1	0.94	0.97	<LOR	1.8
Carrots	10	4	0.59	0.69	<LOR	1.6
Cauliflower	8	4	0.80	0.93	<LOR	2.4
Celery	8	3	0.80	0.89	<LOR	2.1
Cheese, cheddar	10	1	1.8	1.8	<LOR	6.4
Chicken breast	10	7	0.24	0.42	<LOR	1.1
Chicken mince	10	1	2.8	2.8	<LOR	6.1

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	1	2.2	2.2	<LOR	4.8
Coconut, dessicated	4	0	2.6	2.6	1.7	4.2
Coffee, espresso	4	0	0.64	0.64	0.09	0.96
Coffee, instant	4	1	0.11	0.11	<LOR	0.17
Cucumber	8	2	0.82	0.88	<LOR	1.8
Dried apricots	4	2	0.50	0.63	<LOR	1.2
Eggs	10	5	0.65	0.77	<LOR	2.8
Fish fillets, battered	10	8	0.24	0.44	<LOR	1.8
Fish portions, frozen	4	2	1.0	1.2	<LOR	3.4
Grapes	8	3	0.91	1.0	<LOR	2.6
Ham, sliced	4	0	1.5	1.5	0.56	3.5
Hamburger	8	2	0.87	0.94	<LOR	1.7
Honey	4	4	0	0.25	<LOR	<LOR
Ice cream, full fat, vanilla	4	0	1.5	1.5	0.60	3.5
Infant cereal, mixed	4	1	0.53	0.59	<LOR	0.76
Infant dessert, milk based	4	2	0.40	0.53	<LOR	0.87
Infant dinner	4	1	0.62	0.68	<LOR	1.0

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	4	0	0.25	<LOR	<LOR
Juice, fruit	4	0	0.72	0.72	0.48	0.90
Kiwifruit	8	7	0.089	0.31	<LOR	0.70
Lamb chops, loin	10	2	2.7	2.8	<LOR	7.6
Lettuce	8	5	0.43	0.59	<LOR	2.5
Liver pate (chicken)	4	1	1.2	1.3	<LOR	2.0
Mango	4	4	0	0.25	<LOR	<LOR
Margarine, monounsaturated	4	3	0.37	0.55	<LOR	1.5
Milk, full fat	16	8	0.045	0.058	<LOR	0.13
Mushrooms	8	7	0.19	0.41	<LOR	1.5
Nectarine	8	6	0.15	0.34	<LOR	0.70
Oats, rolled	4	0	0.57	0.57	0.50	0.61
Oil, canola and olive	4	4	0	0.25	<LOR	<LOR
Onions	8	5	0.34	0.50	<LOR	1.2
Orange	8	6	0.19	0.38	<LOR	0.90
Pasta	4	2	0.27	0.39	<LOR	0.56

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	1	0.78	0.85	<LOR	1.4
Peanut butter	4	3	0.26	0.45	<LOR	1.0
Pear, natural juice	4	2	0.53	0.65	<LOR	1.3
Peas, frozen	4	1	1.1	1.2	<LOR	2.2
Pie, meat	4	0	2.0	2.0	0.66	4.5
Pineapple, canned in natural juice	4	2	0.38	0.51	<LOR	0.80
Pizza, meat and vegetable topping	4	0	1.3	1.3	0.69	2.0
Potato	12	6	0.49	0.61	<LOR	2.5
Potato crisps	4	0	5.2	5.2	2.0	10
Prawns	8	3	0.79	0.89	<LOR	3.1
Pumpkin	8	5	0.53	0.69	<LOR	2.3
Rice, white, long grain	4	0	1.0	1.0	0.60	1.7
Sauce, tomato	4	1	0.50	0.56	<LOR	0.80
Sausages, beef	10	4	1.9	2.0	<LOR	6.5
Savoury sauce, non tomato	4	0	0.86	0.86	0.51	1.1
Soft drink	4	0	0.47	0.47	0.10	0.85
Soy beverage, full fat	4	0	1.1	1.1	0.59	1.8

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	2	0.44	0.50	<LOR	0.70
Sugar, white	4	3	0.24	0.43	<LOR	0.97
Sultanas	4	3	0.18	0.36	<LOR	0.70
Sweetcorn, kernels, frozen	4	3	0.18	0.36	<LOR	0.70
Tea	4	0	1.5	1.5	1.2	1.9
Tomatoes, canned	4	3	0.30	0.49	<LOR	1.2
Tomatoes, raw	8	6	0.25	0.44	<LOR	1.4
Tuna, canned in brine	4	0	1.2	1.2	0.70	2.1
Water, bottled	4	0	0.050	0.050	0.04	0.060
Water, tap	8	0	0.80	0.80	0.08	1.0
Watermelon	8	6	0.20	0.39	<LOR	1.0
Wine, red	8	0	0.15	0.15	0.11	0.23
Wine, white	8	0	0.14	0.14	0.07	0.20
Yoghurt, fruit, full fat	8	1	0.75	0.78	<LOR	1.1

Table A11.6 – Concentrations of iron in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	42	42	38	45
Apples	8	1	1.02	1.0	<LOR	1.6
Avocados	8	0	5.7	5.7	4.3	9.0
Bacon	4	0	6	6.0	4.5	7.6
Baked beans	4	0	6.3	6.3	3.8	11
Bananas	8	0	2.6	2.6	2.1	3.0
Beans, green, raw	8	0	7.1	7.1	6.0	8.2
Beef, minced, lean	8	0	24	24	15	29
Beer, full strength	4	2	0.021	0.15	<LOR	0.052
Beetroot, canned	4	0	5.5	5.5	3.2	8.7
Biscuits, savoury	4	0	12	12	11	13

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	11	11	8.4	15
Bread, fancy	8	0	13	13	9.8	19
Bread, multigrain	12	0	17	17	12	39
Bread, white	12	0	12	12	9.4	16
Breakfast cereal, mixed grain	4	0	120	120	87	160
Breakfast cereal, single grain	4	0	98	98	80	122
Broccoli	8	0	6.5	6.5	4.2	9.1
Butter	4	3	0.11	0.48	<LOR	0.43
Cabbage	8	0	2.2	2.2	1.0	2.7
Cake, chocolate, iced	4	0	18	18	15	20
Capsicum	8	0	3.5	3.5	2.7	4.6
Carrots	10	1	1.9	1.9	<LOR	2.5
Cauliflower	8	0	3.0	3.0	2.4	3.8
Celery	8	1	2.0	2.0	<LOR	6.6
Cheese, cheddar	10	0	1.5	1.5	1.0	2.0
Chicken breast	10	0	4.1	4.1	3.3	5.1
Chicken mince	10	0	7.5	7.5	5.7	10

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	26	26	13	51
Coconut, dessicated	4	0	32	32	28	38
Coffee, espresso	4	2	0.40	0.52	<LOR	1.2
Coffee, instant	4	1	0.66	0.72	<LOR	1.0
Cucumber	8	0	1.6	1.6	1.0	2.0
Dried apricots	4	0	21	21	15	25
Eggs	10	0	13	13	11	15
Fish fillets, battered	10	0	3.7	3.7	2.3	4.6
Fish portions, frozen	4	0	5.2	5.2	4.2	6.1
Grapes	8	0	2.4	2.4	1.0	3.1
Ham, sliced	4	0	7.5	7.5	6.1	8.9
Hamburger	8	0	14	14	8.9	20
Honey	4	0	1.7	1.7	0.94	2.0
Ice cream, full fat, vanilla	4	2	0.33	0.36	<LOR	0.68
Infant cereal, mixed	4	0	45	45	29	54
Infant dessert, milk based	4	2	0.46	0.49	<LOR	1.1
Infant dinner	4	0	3.5	3.5	2.4	4.6

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	0	10	10	5.2	21
Juice, fruit	4	2	0.24	0.37	<LOR	0.52
Kiwifruit	8	0	2.2	2.2	2.0	2.8
Lamb chops, loin	10	0	25	25	20	31
Lettuce	8	0	4.2	4.2	2.8	6.3
Liver pate (chicken)	4	0	39	39	25	49
Mango	4	3	0.25	0.29	<LOR	1.0
Margarine, monounsaturated	4	2	0.16	0.41	<LOR	0.49
Milk, full fat	16	8	0.094	0.22	<LOR	0.3
Mushrooms	8	0	2.5	2.5	1.3	3.6
Nectarine	8	0	1.5	1.5	1.0	2.0
Oats, rolled	4	0	8.6	8.6	6.3	11
Oil, canola and olive	4	2	0.098	0.35	<LOR	0.2
Onions	8	0	2.0	2.0	1.8	2.4
Orange	8	0	1.1	1.1	1.0	1.3
Pasta	4	0	6.8	6.8	4.9	9.6

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	0	1.7	1.7	1.0	2.0
Peanut butter	4	0	18	18	16	21
Pear, natural juice	4	0	1.5	1.5	1.0	2.0
Peas, frozen	4	0	16	16	14	17
Pie, meat	4	0	12	12	11	14
Pineapple, canned in natural juice	4	0	2.6	2.6	2.0	3.0
Pizza, meat and vegetable topping	4	0	8.7	8.7	7.5	9.4
Potato	12	0	3.2	3.2	2.4	4.0
Potato crisps	4	0	14	14	12	16
Prawns	8	0	7.4	7.4	2.0	19
Pumpkin	8	0	2.7	2.7	1.8	3.9
Rice, white, long grain	4	2	0.58	0.61	<LOR	1.4
Sauce, tomato	4	0	6.0	6.0	3.2	7.6
Sausages, beef	10	0	14	14	12	19
Savoury sauce, non tomato	4	0	7.3	7.3	5.7	11
Soft drink	4	2	0.012	0.14	<LOR	0.024
Soy beverage, full fat	4	0	3.4	3.4	2.7	3.8

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	0	3.8	3.8	2.6	5.4
Sugar, white	4	2	0.11	0.36	<LOR	0.28
Sultanas	4	0	14	14	12	20
Sweetcorn, kernels, frozen	4	0	3.4	3.4	3.0	3.9
Tea	4	2	0.021	0.15	<LOR	0.046
Tomatoes, canned	4	0	9.1	9.1	1.7	23
Tomatoes, raw	8	0	1.8	1.8	1.0	2.5
Tuna, canned in brine	4	0	9.3	9.3	7.4	13
Water, bottled	4	4	0	0.005	<LOR	<LOR
Water, tap	8	4	0.054	0.056	<LOR	0.15
Watermelon	8	0	2.3	2.3	2.0	2.8
Wine, red	8	0	2.2	2.2	1.3	3.0
Wine, white	8	2	1.03	1.1	<LOR	1.7
Yoghurt, fruit, full fat	8	4	0.43	0.45	<LOR	1.4

Table A11.7 – Concentrations of manganese in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	32	32	27	42
Apples	8	0	0.49	0.49	0.31	0.83
Avocados	8	0	2.8	2.8	1.7	5.5
Bacon	4	0	0.13	0.13	0.09	0.21
Baked beans	4	0	3.2	3.2	2.9	3.5
Bananas	8	0	3.4	3.4	1.1	5.5
Beans, green, raw	8	0	2.6	2.6	1.7	3.5
Beef, minced, lean	8	0	0.11	0.11	0.079	0.15
Beer, full strength	4	0	0.087	0.087	0.063	0.11
Beetroot, canned	4	0	3.8	3.8	2.6	5.9
Biscuits, savoury	4	0	7.8	7.8	3.8	10

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	8.2	8.2	6.7	10
Bread, fancy	8	0	6.7	6.7	5.3	8.9
Bread, multigrain	12	0	12	12	8.3	15
Bread, white	12	0	7.8	7.8	5.2	11
Breakfast cereal, mixed grain	4	0	35	35	28	49
Breakfast cereal, single grain	4	0	23	23	9.7	36
Broccoli	8	0	2.2	2.2	1.7	3.6
Butter	4	1	0.0097	0.013	<LOR	0.019
Cabbage	8	0	1.4	1.4	0.70	3.2
Cake, chocolate, iced	4	0	4.4	4.4	3.7	5.0
Capsicum	8	0	1.1	1.1	0.87	1.3
Carrots	10	0	1.3	1.3	0.55	2.5
Cauliflower	8	0	1.4	1.4	1.0	2.4
Celery	8	0	0.91	0.91	0.27	2.4
Cheese, cheddar	10	0	0.30	0.30	0.21	0.41
Chicken breast	10	0	0.11	0.11	0.09	0.17
Chicken mince	10	0	0.15	0.15	0.12	0.2

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	4.9	4.9	3.7	8.2
Coconut, dessicated	4	0	21	21	18	25
Coffee, espresso	4	0	1.5	1.5	0.76	2.0
Coffee, instant	4	0	0.69	0.69	0.5	0.83
Cucumber	8	0	0.73	0.73	0.30	1.7
Dried apricots	4	0	3.9	3.9	3.5	4.4
Eggs	10	0	0.32	0.32	0.23	0.42
Fish fillets, battered	10	0	2.1	2.1	0.72	3.5
Fish portions, frozen	4	0	2.7	2.7	1.8	3.8
Grapes	8	0	0.7	0.7	0.38	1.0
Ham, sliced	4	0	0.15	0.15	0.12	0.17
Hamburger	8	0	3.3	3.3	3.0	4.3
Honey	4	0	3.6	3.6	2.4	4.9
Ice cream, full fat, vanilla	4	0	0.055	0.055	0.04	0.082
Infant cereal, mixed	4	0	3.7	3.7	1.8	8.1
Infant dessert, milk based	4	0	0.63	0.63	0.38	0.75
Infant dinner	4	0	1.2	1.2	0.32	2.3

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	0	0.13	0.13	0.11	0.18
Juice, fruit	4	1	0.58	0.58	<LOR	1.7
Kiwifruit	8	0	0.88	0.88	0.63	1.1
Lamb chops, loin	10	0	0.15	0.15	0.089	0.21
Lettuce	8	0	1.9	1.9	1.0	2.7
Liver pate (chicken)	4	0	2.7	2.7	1.8	3.4
Mango	4	0	1.4	1.4	0.82	1.9
Margarine, monounsaturated	4	1	0.015	0.016	<LOR	0.023
Milk, full fat	16	0	0.028	0.028	0.016	0.038
Mushrooms	8	0	0.48	0.48	0.31	0.75
Nectarine	8	0	0.82	0.82	0.69	0.99
Oats, rolled	4	0	8.2	8.2	5.4	11
Oil, canola and olive	4	3	0.010	0.016	<LOR	0.04
Onions	8	0	1.3	1.3	0.92	2.5
Orange	8	0	0.29	0.29	0.23	0.4
Pasta	4	0	4.2	4.2	3.2	5.5

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	0	0.55	0.55	0.48	0.66
Peanut butter	4	0	16	16	14	18
Pear, natural juice	4	0	0.31	0.31	0.26	0.35
Peas, frozen	4	0	3.3	3.3	2.0	3.9
Pie, meat	4	0	3.6	3.6	3.0	3.9
Pineapple, canned in natural juice	4	0	5.8	5.8	5.1	6.6
Pizza, meat and vegetable topping	4	0	4.7	4.7	4.3	5.5
Potato	12	0	1.3	1.3	0.74	4.2
Potato crisps	4	0	4.4	4.4	3.8	5.0
Prawns	8	0	0.63	0.63	0.21	2.3
Pumpkin	8	0	0.75	0.75	0.58	1.2
Rice, white, long grain	4	0	3.2	3.2	2.9	3.3
Sauce, tomato	4	0	1.1	1.1	1.0	1.2
Sausages, beef	10	0	2.0	2.0	1.2	3.4
Savoury sauce, non tomato	4	0	3.4	3.4	2.3	3.9
Soft drink	4	2	0.0028	0.0053	<LOR	0.0061
Soy beverage, full fat	4	0	0.89	0.89	0.38	1.2

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	0	3.4	3.4	1.9	4.7
Sugar, white	4	3	0.0025	0.0082	<LOR	0.01
Sultanas	4	0	3.3	3.3	2.9	3.6
Sweetcorn, kernels, frozen	4	0	1.3	1.3	1.3	1.6
Tea	4	0	2.1	2.1	1.9	2.5
Tomatoes, canned	4	0	1.1	1.1	0.95	1.3
Tomatoes, raw	8	0	0.76	0.76	0.49	0.99
Tuna, canned in brine	4	0	0.13	0.13	0.063	0.21
Water, bottled	4	2	0.0011	0.0036	<LOR	0.0036
Water, tap	8	0	0.011	0.011	0.002	0.026
Watermelon	8	0	0.67	0.67	0.40	1.4
Wine, red	8	1	1.6	1.6	<LOR	2.0
Wine, white	8	0	1.3	1.3	0.76	1.6
Yoghurt, fruit, full fat	8	0	0.52	0.52	0.14	0.93

Table A11.8 – Concentrations of molybdenum in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	0.20	0.20	0.15	0.30
Apples	8	3	0.0060	0.0078	<LOR	0.011
Avocados	8	2	0.0071	0.0084	<LOR	0.016
Bacon	4	1	0.014	0.015	<LOR	0.021
Baked beans	4	0	0.20	0.20	0.18	0.21
Bananas	8	1	0.035	0.035	<LOR	0.06
Beans, green, raw	8	0	0.38	0.38	0.19	0.78
Beef, minced, lean	8	3	0.0055	0.0074	<LOR	0.01
Beer, full strength	4	1	0.0058	0.0071	<LOR	0.01
Beetroot, canned	4	0	0.01	0.01	0.01	0.011
Biscuits, savoury	4	0	0.15	0.15	0.13	0.19

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	0.12	0.12	0.11	0.13
Bread, fancy	8	0	0.14	0.14	0.07	0.20
Bread, multigrain	12	0	0.22	0.22	0.14	0.59
Bread, white	12	0	0.15	0.15	0.09	0.21
Breakfast cereal, mixed grain	4	0	0.25	0.25	0.22	0.28
Breakfast cereal, single grain	4	0	0.30	0.30	0.25	0.34
Broccoli	8	0	0.087	0.087	0.05	0.17
Butter	4	1	0.019	0.02	<LOR	0.03
Cabbage	8	0	0.094	0.094	0.041	0.22
Cake, chocolate, iced	4	0	0.073	0.073	0.06	0.081
Capsicum	8	0	0.054	0.054	0.02	0.11
Carrots	10	3	0.0076	0.0091	<LOR	0.02
Cauliflower	8	1	0.054	0.054	<LOR	0.17
Celery	8	3	0.015	0.017	<LOR	0.037
Cheese, cheddar	10	2	0.062	0.063	<LOR	0.097
Chicken breast	10	1	0.032	0.032	<LOR	0.051
Chicken mince	10	1	0.037	0.037	<LOR	0.063

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	0.10	0.10	0.08	0.12
Coconut, dessicated	4	0	0.20	0.20	0.13	0.28
Coffee, espresso	4	2	0.0031	0.0056	<LOR	0.0083
Coffee, instant	4	2	0.0098	0.0035	<LOR	0.0021
Cucumber	8	1	0.080	0.081	<LOR	0.19
Dried apricots	4	0	0.046	0.046	0.03	0.06
Eggs	10	2	0.069	0.07	<LOR	0.12
Fish fillets, battered	10	3	0.027	0.028	<LOR	0.065
Fish portions, frozen	4	0	0.042	0.042	0.01	0.063
Grapes	8	4	0.0063	0.0088	<LOR	0.02
Ham, sliced	4	0	0.014	0.014	0.01	0.019
Hamburger	8	1	0.00078	0.063	<LOR	0.10
Honey	4	3	0.0031	0.0039	<LOR	0.0031
Ice cream, full fat, vanilla	4	0	0.08	0.08	0.05	0.11
Infant cereal, mixed	4	0	0.16	0.16	0.05	0.25
Infant dessert, milk based	4	1	0.029	0.03	<LOR	0.047
Infant dinner	4	0	0.066	0.066	0.03	0.095

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	1	0.015	0.017	<LOR	0.029
Juice, fruit	4	1	0.0040	0.0052	<LOR	0.0060
Kiwifruit	8	3	0.0029	0.0048	<LOR	0.01
Lamb chops, loin	10	3	0.0089	0.01	<LOR	0.02
Lettuce	8	2	0.0091	0.01	<LOR	0.02
Liver pate (chicken)	4	0	0.29	0.29	0.21	0.37
Mango	4	4	0	0.005	<LOR	<LOR
Margarine, monounsaturated	4	2	0.0036	0.0061	<LOR	0.0099
Milk, full fat	16	0	0.026	0.026	0.02	0.033
Mushrooms	8	1	0.016	0.017	<LOR	0.03
Nectarine	8	5	0.0050	0.0081	<LOR	0.02
Oats, rolled	4	1	0.078	0.079	<LOR	0.12
Oil, canola and olive	4	4	0	0.0038	<LOR	<LOR
Onions	8	2	0.021	0.022	<LOR	0.096
Orange	8	3	0.0040	0.0059	<LOR	0.01
Pasta	4	0	0.057	0.057	0.04	0.073

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	2	0.0017	0.0042	<LOR	0.0041
Peanut butter	4	0	1.8	1.8	1.4	2.0
Pear, natural juice	4	2	0.0012	0.0037	<LOR	0.0027
Peas, frozen	4	0	0.19	0.19	0.11	0.26
Pie, meat	4	0	0.085	0.085	0.078	0.1
Pineapple, canned in natural juice	4	2	0.0037	0.0062	<LOR	0.009
Pizza, meat and vegetable topping	4	0	0.086	0.086	0.07	0.097
Potato	12	0	0.034	0.034	0.0083	0.068
Potato crisps	4	0	0.083	0.083	0.04	0.14
Prawns	8	3	0.0061	0.008	<LOR	0.012
Pumpkin	8	2	0.022	0.023	<LOR	0.055
Rice, white, long grain	4	0	0.25	0.25	0.20	0.30
Sauce, tomato	4	0	0.045	0.045	0.04	0.05
Sausages, beef	10	0	0.047	0.047	0.01	0.083
Savoury sauce, non tomato	4	0	0.10	0.10	0.03	0.16
Soft drink	4	4	0	0.0026	<LOR	<LOR
Soy beverage, full fat	4	0	0.60	0.60	0.043	1.0

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	0	0.071	0.071	0.01	0.11
Sugar, white	4	3	0.0050	0.0075	<LOR	0.02
Sultanas	4	0	0.029	0.029	0.02	0.042
Sweetcorn, kernels, frozen	4	0	0.030	0.030	0.002	0.06
Tea	4	2	0.00035	0.0028	<LOR	0.0008
Tomatoes, canned	4	0	0.019	0.019	0.01	0.025
Tomatoes, raw	8	0	0.026	0.026	0.018	0.06
Tuna, canned in brine	4	2	0.0020	0.0045	<LOR	0.0058
Water, bottled	4	2	0.00017	0.0002	<LOR	0.0003
Water, tap	8	4	0.000072	0.0001	<LOR	0.0002
Watermelon	8	2	0.012	0.013	<LOR	0.02
Wine, red	8	3	0.0075	0.0093	<LOR	0.02
Wine, white	8	3	0.0034	0.0053	<LOR	0.01
Yoghurt, fruit, full fat	8	0	0.052	0.052	0.04	0.07

Table A11.9 – Concentrations of potassium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.
 'nd' means result less than the limit of reporting (LOR).
 Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	0	7,800	7,800	7,400	8,100
Apples	8	0	1,200	1,200	1,100	1,300
Avocados	8	0	6,100	6,100	4,900	7,000
Bacon	4	0	3,400	3,400	2,900	3,800
Baked beans	4	0	2,900	2,900	2,400	3,400
Bananas	8	0	3,900	3,800	3,500	4,200
Beans, green, raw	8	0	2,700	2,700	2,000	3,800
Beef, minced, lean	8	0	3,700	3,700	310	4,600
Beer, full strength	4	0	280	280	250	310
Beetroot, canned	4	0	1,400	1,400	1,000	1,700
Biscuits, savoury	4	0	1,900	1,900	1,700	2,300

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	1,400	1,400	1,300	1,800
Bread, fancy	8	0	2,100	2,100	1,600	3,800
Bread, multigrain	12	0	1,900	1,900	1,500	2,500
Bread, white	12	0	1,400	1,400	1,300	1,600
Breakfast cereal, mixed grain	4	0	5,300	5,300	4,200	6,600
Breakfast cereal, single grain	4	0	3,100	3,100	2,400	3,800
Broccoli	8	0	2,700	2,700	1,700	3,700
Butter	4	0	260	260	240	290
Cabbage	8	0	1,600	1,600	1,200	2,200
Cake, chocolate, iced	4	0	2,800	2,800	2,700	2,900
Capsicum	8	0	2,200	2,200	1,800	2,800
Carrots	10	0	2,000	2,000	1,400	2,500
Cauliflower	8	0	2,400	2,400	2,000	2,900
Celery	8	0	2,200	2,200	1,400	2,600
Cheese, cheddar	10	0	780	780	690	880
Chicken breast	10	0	4,200	4,200	3,900	4,500
Chicken mince	10	0	4,300	4,300	3,300	4,900

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	4,700	4,700	4,000	5,100
Coconut, dessicated	4	0	8,400	8,400	7,900	8,900
Coffee, espresso	4	0	3,700	3,700	2,200	4,600
Coffee, instant	4	0	1,100	1,100	730	1,400
Cucumber	8	0	1,300	1,300	760	1,700
Dried apricots	4	0	15,000	15,000	14,000	16,000
Eggs	10	0	1,400	1,400	1,200	1,500
Fish fillets, battered	10	0	2,600	2,600	1,700	3,400
Fish portions, frozen	4	0	2,400	2,400	2,200	2,500
Grapes	8	0	2,700	2,700	2,200	3,300
Ham, sliced	4	0	3,900	3,900	3,200	4,400
Hamburger	8	0	2,200	2,200	1,900	2,400
Honey	4	0	690	690	480	800
Ice cream, full fat, vanilla	4	0	1,700	1,700	1,500	1,900
Infant cereal, mixed	4	0	540	540	270	780
Infant dessert, milk based	4	0	710	710	480	970
Infant dinner	4	0	1,300	1,300	740	1,800

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	0	940	940	670	1,600
Juice, fruit	4	0	1,100	1,100	970	1,200
Kiwifruit	8	0	3,100	3,100	2,600	3,700
Lamb chops, loin	10	0	3,700	3,700	3,500	3,900
Lettuce	8	0	1,600	1,600	1,100	2,800
Liver pate (chicken)	4	0	2,700	2,700	1,800	3,700
Mango	4	0	1,700	1,700	1,400	1,900
Margarine, monounsaturated	4	0	290	290	220	340
Milk, full fat	16	0	1,500	1,500	1,200	1,700
Mushrooms	8	0	2,800	2,800	2,000	4,000
Nectarine	8	0	2,700	2,700	2,300	2,900
Oats, rolled	4	0	660	660	590	760
Oil, canola and olive	4	4	0	2.5	<LOR	<LOR
Onions	8	0	1,700	1,700	1,500	2,000
Orange	8	0	1,600	1,600	1,300	1,800
Pasta	4	0	530	530	400	630

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	0	1,400	1,400	1,200	1,600
Peanut butter	4	0	6,900	6,900	6,500	7,100
Pear, natural juice	4	0	730	730	670	790
Peas, frozen	4	0	1,600	1,600	1,300	2,000
Pie, meat	4	0	1,600	1,600	1,500	1,800
Pineapple, canned in natural juice	4	0	1,300	1,300	1,200	1,400
Pizza, meat and vegetable topping	4	0	2,200	2,200	2,000	2,500
Potato	12	0	3,100	3,100	2,100	3,900
Potato crisps	4	0	16,000	16,000	14,000	17,000
Prawns	8	0	2,100	2,100	1,400	3,700
Pumpkin	8	0	3,200	3,200	2,400	4,200
Rice, white, long grain	4	0	340	340	250	430
Sauce, tomato	4	0	3,300	3,300	3,000	3,400
Sausages, beef	10	0	2,700	2,700	2,100	4,700
Savoury sauce, non tomato	4	0	2,000	2,000	1,300	2,600
Soft drink	4	0	32	32	20	42
Soy beverage, full fat	4	0	1,300	1,300	1,200	1,500

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	0	2,100	2,100	1,500	2,500
Sugar, white	4	0	11	11	7.8	14
Sultanas	4	0	9,400	9,400	8,900	9,800
Sweetcorn, kernels, frozen	4	0	2,100	2,100	1,900	2,500
Tea	4	0	140	140	110	180
Tomatoes, canned	4	0	2,800	2,800	2,100	3,200
Tomatoes, raw	8	0	2,100	2,100	1,300	2,600
Tuna, canned in brine	4	0	2,400	2,400	2,000	2,700
Water, bottled	4	0	1.5	1.5	0.76	3.2
Water, tap	8	0	2.1	2.1	0.34	4.0
Watermelon	8	0	1,400	1,400	860	1,800
Wine, red	8	0	1,300	1,300	710	3,700
Wine, white	8	0	430	430	240	650
Yoghurt, fruit, full fat	8	0	2,000	2,000	1,700	2,400

Table A11.10 – Concentrations of selenium in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Almonds	4	2	0.025	0.032	<LOR	0.058
Apples	8	7	0.00092	0.0031	<LOR	0.0074
Avocados	8	6	0.019	0.014	<LOR	0.021
Bacon	4	0	0.34	0.34	0.25	0.42
Baked beans	4	0	0.064	0.064	0.052	0.089
Bananas	8	2	0.012	0.013	<LOR	0.021
Beans, green, raw	8	3	0.0085	0.0095	<LOR	0.018
Beef, minced, lean	8	0	0.23	0.23	0.16	0.35
Beer, full strength	4	2	0.0040	0.0046	<LOR	0.008
Beetroot, canned	4	0	0.072	0.072	0.0071	0.24
Biscuits, savoury	4	1	0.12	0.13	<LOR	0.27

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	0.14	0.14	0.085	0.18
Bread, fancy	8	0	0.18	0.18	0.076	0.24
Bread, multigrain	12	1	0.19	0.19	<LOR	0.39
Bread, white	12	0	0.18	0.18	0.086	0.29
Breakfast cereal, mixed grain	4	0	0.16	0.16	0.11	0.21
Breakfast cereal, single grain	4	0	0.14	0.14	0.085	0.20
Broccoli	8	2	0.016	0.017	<LOR	0.054
Butter	4	2	0.015	0.022	<LOR	0.05
Cabbage	8	3	0.0052	0.0061	<LOR	0.012
Cake, chocolate, iced	4	0	0.085	0.085	0.073	0.11
Capsicum	8	2	0.013	0.013	<LOR	0.036
Carrots	10	5	0.0063	0.0075	<LOR	0.028
Cauliflower	8	0	0.013	0.013	<LOR	0.023
Celery	8	4	0.013	0.014	<LOR	0.035
Cheese, cheddar	10	0	0.18	0.18	0.091	0.28
Chicken breast	10	0	0.30	0.30	0.19	0.45
Chicken mince	10	0	0.32	0.32	0.21	0.45

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Chocolate, milk	4	0	0.048	0.048	0.031	0.063
Coconut, dessicated	4	0	0.23	0.23	0.092	0.39
Coffee, espresso	4	1	0.0072	0.0076	<LOR	0.017
Coffee, instant	4	1	0.0048	0.0051	<LOR	0.0077
Cucumber	8	4	0.0061	0.0073	<LOR	0.021
Dried apricots	4	1	0.012	0.013	<LOR	0.027
Eggs	10	0	0.31	0.31	0.021	0.45
Fish fillets, battered	10	0	0.47	0.47	0.21	1.1
Fish portions, frozen	4	0	0.39	0.39	0.36	0.42
Grapes	8	8	0	0.0025	<LOR	<LOR
Ham, sliced	4	0	0.43	0.43	0.35	0.54
Hamburger	8	0	0.15	0.15	0.092	0.22
Honey	4	2	0.015	0.021	<LOR	0.031
Ice cream, full fat, vanilla	4	0	0.025	0.025	0.013	0.044
Infant cereal, mixed	4	0	0.022	0.022	0.014	0.042
Infant dessert, milk based	4	1	0.011	0.011	<LOR	0.02
Infant dinner	4	0	0.042	0.042	0.02	0.072

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Infant formula	4	0	0.036	0.036	0.02	0.054
Juice, fruit	4	2	0.0024	0.0031	<LOR	0.0071
Kiwifruit	8	3	0.012	0.013	<LOR	0.028
Lamb chops, loin	10	0	0.20	0.20	0.11	0.28
Lettuce	8	5	0.0052	0.0067	<LOR	0.02
Liver pate (chicken)	4	0	0.37	0.37	0.30	0.40
Mango	4	2	0.0028	0.0041	<LOR	0.0068
Margarine, monounsaturated	4	2	0.0049	0.011	<LOR	0.0099
Milk, full fat	16	0	0.049	0.049	0.012	0.21
Mushrooms	8	0	0.18	0.18	0.14	0.24
Nectarine	8	7	0.00059	0.0028	0.0047	0.0047
Oats, rolled	4	0	0.022	0.022	0.011	0.033
Oil, canola and olive	4	2	0.064	0.071	<LOR	0.21
Onions	8	3	0.011	0.012	<LOR	0.047
Orange	8	4	0.011	0.012	<LOR	0.039
Pasta	4	0	0.057	0.057	0.033	0.092

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Peach, natural juice	4	3	0.0085	0.01	<LOR	0.034
Peanut butter	4	0	0.22	0.22	0.074	0.36
Pear, natural juice	4	3	0.0041	0.006	<LOR	0.016
Peas, frozen	4	2	0.015	0.017	<LOR	0.034
Pie, meat	4	0	0.13	0.13	0.077	0.18
Pineapple, canned in natural juice	4	2	0.0038	0.0051	<LOR	0.0095
Pizza, meat and vegetable topping	4	0	0.19	0.19	0.16	0.28
Potato	12	6	0.0092	0.01	<LOR	0.030
Potato crisps	4	2	0.019	0.025	<LOR	0.062
Prawns	8	0	0.56	0.56	0.40	0.67
Pumpkin	8	0	0.019	0.019	0.0049	0.038
Rice, white, long grain	4	1	0.036	0.039	<LOR	0.066
Sauce, tomato	4	0	0.03	0.03	0.008	0.051
Sausages, beef	10	0	0.12	0.12	0.069	0.16
Savoury sauce, non tomato	4	0	0.043	0.043	0.02	0.064
Soft drink	4	3	0.00065	0.0016	<LOR	0.0026
Soy beverage, full fat	4	0	0.020	0.020	0.014	0.030

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2 LOR)	Minimum	Maximum
Strawberries	8	4	0.0059	0.0071	<LOR	0.028
Sugar, white	4	2	0.013	0.019	<LOR	0.03
Sultanas	4	0	0.022	0.022	0.0048	0.056
Sweetcorn, kernels, frozen	4	2	0.0082	0.0094	<LOR	0.026
Tea	4	2	0.0015	0.0022	<LOR	0.0032
Tomatoes, canned	4	1	0.012	0.013	<LOR	0.017
Tomatoes, raw	8	5	0.0052	0.0068	<LOR	0.019
Tuna, canned in brine	4	0	0.87	0.87	0.83	0.92
Water, bottled	4	2	0.00071	0.0008	<LOR	0.0019
Water, tap	8	7	0.00019	0.0004	<LOR	0.0015
Watermelon	8	6	0.0024	0.0043	<LOR	0.014
Wine, red	8	6	0.0024	0.0033	<LOR	0.016
Wine, white	8	7	0.00058	0.0017	<LOR	0.0046
Yoghurt, fruit, full fat	8	0	0.034	0.034	0.014	0.059

Table A11.11 – Concentrations of zinc in foods (mg/kg)

Notes on Table:

Results are derived from composite samples.

'nd' means result less than the limit of reporting (LOR).

Mean and median results have been rounded to two significant figures.

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Almonds	4	0	32	32	28	37
Apples	8	0	0.48	0.48	0.34	0.79
Avocados	8	0	5.8	5.8	4.9	7.1
Bacon	4	0	17	17	14	20
Baked beans	4	0	5.2	5.2	4.3	6.4
Bananas	8	0	1.6	1.6	1.3	1.8
Beans, green, raw	8	0	3.0	3.0	1.9	4.4
Beef, minced, lean	8	0	49	49	43	61
Beer, full strength	4	2	0.0064	0.019	<LOR	0.013
Beetroot, canned	4	0	2.2	2.2	1.6	3.6
Biscuits, savoury	4	0	6.7	6.7	5.7	8.9

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Biscuits, sweet, plain	4	0	4.9	4.9	4.1	6.1
Bread, fancy	8	0	7.3	7.3	4.9	8.9
Bread, multigrain	12	0	9.5	9.5	6.4	15
Bread, white	12	0	7.1	7.1	4.9	9.6
Breakfast cereal, mixed grain	4	0	27	27	19	39
Breakfast cereal, single grain	4	0	38	38	29	57
Broccoli	8	0	3.8	3.8	3.0	4.2
Butter	4	0	0.63	0.63	0.54	0.76
Cabbage	8	0	1.1	1.1	0.81	2.0
Cake, chocolate, iced	4	0	6.1	6.1	4.1	8.7
Capsicum	8	0	1.8	1.8	0.77	2.8
Carrots	10	0	1.6	1.6	1.1	2.1
Cauliflower	8	0	1.8	1.8	1.5	2.4
Celery	8	0	1.2	1.2	0.71	1.8
Cheese, cheddar	10	0	34	34	32	36
Chicken breast	10	0	6.9	6.9	6.0	7.8
Chicken mince	10	0	15	15	10	22

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Chocolate, milk	4	0	13	13	11	15
Coconut, dessicated	4	0	15	15	14	17
Coffee, espresso	4	0	0.57	0.57	0.44	0.69
Coffee, instant	4	0	0.18	0.18	0.11	0.29
Cucumber	8	0	2.2	2.2	0.60	11
Dried apricots	4	0	5.6	5.6	4.8	6.5
Eggs	10	0	9.7	9.7	0.95	13
Fish fillets, battered	10	0	3.8	3.8	1.9	5.5
Fish portions, frozen	4	0	3.9	3.9	3.2	4.8
Grapes	8	0	0.49	0.49	0.42	0.62
Ham, sliced	4	0	16	16	12	20
Hamburger	8	0	19	19	17	23
Honey	4	0	6.6	6.6	3.1	10
Ice cream, full fat, vanilla	4	0	3.0	3.0	2.1	5.6
Infant cereal, mixed	4	0	3.1	3.1	2.0	4.8
Infant dessert, milk based	4	0	1.7	1.7	1.5	2.0
Infant dinner	4	0	4.0	4.0	2.9	5.7

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Infant formula	4	0	6.3	6.3	4.0	12
Juice, fruit	4	0	0.18	0.18	0.15	0.19
Kiwifruit	8	0	1.2	1.2	0.86	1.6
Lamb chops, loin	10	0	34	34	27	41
Lettuce	8	0	2.1	2.1	0.67	4.2
Liver pate (chicken)	4	0	13	13	12	14
Mango	4	0	0.75	0.75	0.50	0.95
Margarine, monounsaturated	4	0	0.23	0.23	0.13	0.38
Milk, full fat	16	0	3.2	3.2	2.0	3.9
Mushrooms	8	0	4.9	4.9	3.1	6.2
Nectarine	8	0	1.3	1.3	0.98	1.7
Oats, rolled	4	0	4.5	4.5	3.8	5.1
Oil, canola and olive	4	1	0.23	0.23	<LOR	0.44
Onions	8	0	1.5	1.5	1.3	2.2
Orange	8	0	1.0	1.0	0.62	2.8
Pasta	4	0	4.2	4.2	3.0	5.0

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Peach, natural juice	4	0	0.70	0.70	0.6	0.77
Peanut butter	4	0	24	24	23	25
Pear, natural juice	4	0	0.55	0.55	0.45	0.68
Peas, frozen	4	0	7.2	7.2	6.5	8.6
Pie, meat	4	0	12	12	10	13
Pineapple, canned in natural juice	4	0	0.93	0.93	0.89	1.0
Pizza, meat and vegetable topping	4	0	12	12	11	14
Potato	12	0	2.8	2.8	1.5	8.8
Potato crisps	4	0	6.8	6.8	1.8	9.3
Prawns	8	0	14	14	12	17
Pumpkin	8	0	1.5	1.5	0.84	2.1
Rice, white, long grain	4	0	5.3	5.3	4.4	6.0
Sauce, tomato	4	0	1.5	1.5	1.2	1.7
Sausages, beef	10	0	25	25	21	29
Savoury sauce, non tomato	4	0	2.6	2.6	1.7	3.4
Soft drink	4	1	0.024	0.030	<LOR	0.06
Soy beverage, full fat	4	0	1.3	1.3	0.6	2.1

Food	No. of analyses	No. of 'nd' samples	Mean (nd=0)	Mean (nd=1/2LOR)	Minimum	Maximum
Strawberries	8	0	1.7	1.7	1.5	1.9
Sugar, white	4	1	0.080	0.086	<LOR	0.13
Sultanas	4	0	1.9	1.9	1.7	2.2
Sweetcorn, kernels, frozen	4	0	3.8	3.8	3.0	4.7
Tea	4	0	0.084	0.084	0.07	0.11
Tomatoes, canned	4	0	1.3	1.3	1.2	1.7
Tomatoes, raw	8	0	1.0	1.0	0.87	1.3
Tuna, canned in brine	4	0	5.7	5.7	4.9	6.9
Water, bottled	4	2	0.0046	0.017	<LOR	0.014
Water, tap	8	0	0.049	0.049	0.016	0.094
Watermelon	8	0	1.1	1.1	0.80	1.3
Wine, red	8	0	0.78	0.78	0.60	0.94
Wine, white	8	0	0.88	0.88	0.70	1.0
Yoghurt, fruit, full fat	8	0	5.0	5.0	4.0	7.5

Appendix 12: Mean food consumption amounts

Table A12.1 – Model diet for 9 month old infants

ATDS Food	Mean consumption amount (grams per day)	
	50 th percentile body weight (8.9 kg)	99 th percentile body weight (11.4 kg)
	Apples and quinces	17
Avocadoes and olives	1.4	1.7
Bacon	0.5	0.6
Bananas and plantains	14	17
Beef, veal and venison	6.7	8.5
Beer, liqueurs and spirits	0	0
Beetroot	0.2	0.2
Berries and jams	2.8	3.6
Breakfast cereals with mixed grains/ fruits/ nuts	0	0
Broccoli and broccoflower	1.5	1.9
Butter and animal fats	0.7	0.9
Cabbages, Brussels sprouts and kohlrabi	0.4	0.5
Cakes, muffins and puddings	1.0	1.2
Capsicums, chillies and spices	0.6	0.7
Cauliflower	0.9	1.2
Cheeses	4.9	6.3
Chocolates, cocoa and fudge	1.4	1.8
Citrus fruits and kumquats	6.9	8.9
Coconut and coconut products	0.1	0.1
Coffee (from ground)	0	0
Coffee (from instant) and cereal-based beverages	0	0
Cucumbers and chokos	1.0	1.3
Dried apricots, peel, cherries, ginger and fruit leathers	0.3	0.4
Dried grapes/ figs/ dates and prunes	1.7	2.2
Dried pulses (except soy beans)	1.8	2.3
Eggs	2.1	2.7
Fancy breads, crumpets and English muffins	2.8	3.5

ATDS Food	Mean consumption amount (grams per day)	
	50 th percentile body weight (8.9 kg)	99 th percentile body weight (11.4 kg)
	Fish (uncrumbed/ unbattered or canned)	1.8
Flours and single grains cereals	5.9	7.6
Fresh beans and bean sprouts	0.8	1
Frozen dairy based desserts	2.6	3.3
Fruit juices and ciders	28	36
Grapes	3.3	4.2
Hamburgers (all meat types)	0.2	0.3
Honey	0.4	0.6
Infant cereals	16	21
Infant custards and yoghurts	3.1	4.0
Infant dinners	3.9	5.0
Infant formulas	544	697
Lamb, mutton, kangaroo and rabbit	1.1	1.4
Leafy vegetables and herbs	0.7	0.9
Margarines and margarine spreads	1.7	2.2
Melons	4.8	6.2
Milks and cream	0	0
Molluscs and crustacea	0.085	0.11
Multigrain, wholemeal and rye breads	8.0	10
Mushrooms	0.4	0.6
Non-alcoholic beverages (except milk, waters and juices)	6.8	8.7
Oats	10	13
Offal (including pate and liverwurst)	0.018	0.023
Oils	0.7	0.9
Onions, garlic, shallots, spring onions and leeks	1.6	2.1
Pasta, noodles (except rice) and couscous	13	17
Peanuts and peanut butter	0	0
Pears and loquats	2.9	3.7
Peas (fresh, dried and sprouts)	1.6	2.1
Pineapple and jackfruit	1.0	1.3
Pizzas (excluding seafood)	0.8	1.0

ATDS Food	Mean consumption amount (grams per day)	
	50 th percentile body weight (8.9 kg)	99 th percentile body weight (11.4 kg)
	Pork (except bacon) and deli meats (except frankfurts and poultry-based)	3.1
Poultry (excluding skinless)	1.3	1.7
Poultry (skinless)	4.3	5.5
Pumpkins, squash, marrows and zucchini	2.8	3.6
Red/rose wines, sherry, port and brandy	0	0
Rice and rice products	8.6	11
Root vegetables (non-starchy)	3.3	4.2
Root vegetables (starchy)	11	14
Sausages and frankfurts	2.2	2.8
Savoury biscuits and crackers	1.7	2.1
Savoury pastries (containing meat)	1.7	2.2
Savoury sauces (excluding tomato)	0.6	0.7
Savoury sauces (tomato)	2.0	2.5
Savoury snacks	0.9	1.2
Seafood (battered)	0.2	0.2
Seafood (crumbed)	1.0	1.3
Seeds and tree nuts (except coconut)	0	0
Soy beverages, soy beans and tofu	0	0
Stalk and stem vegetables	0.5	0.6
Stone fruits (furry skinned)	1.4	1.8
Stone fruits (smooth skinned) and figs	0.3	0.4
Sugars, confectionery, syrups and icings	3.1	4.0
Sweet/ plain/ filled biscuits	2.2	2.9
Sweetcorn	2.1	2.7
Teas	0	0
Tomatoes/ eggplant/ okra (cooked or processed)	3.5	4.5
Tomatoes/ eggplant/ pepino (raw or sun-dried)	2.5	3.2
Tropical fruits (rough or furry skin, except pineapples and jackfruit)	0.4	0.5
Tropical fruits (smooth-skinned, except bananas, plantains, avocados & olives)	0.3	0.4

ATDS Food	Mean consumption amount (grams per day)	
	50 th percentile body weight	99 th percentile body weight
	(8.9 kg)	(11.4 kg)
Water (bottled/ plain mineral/ soda)	311	230
Water (non-bottled)	311	230
White breads (including high-fibre white)	9.5	12
White wines, wine coolers, rice and ginger wines	0	0
Yoghurt (except frozen) and dairy desserts (except ice cream)	18	23

Table A12.2 – Mean food consumption amounts derived from the 1995 NNS and the 2007 NNS, for all respondents

Food Group	Rounded mean all respondent consumption amounts (grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Apples and quinces	63	67	56	38
Avocadoes and olives	3.5	2.6	4.0	2.9
Bacon	1.4	2.6	4.2	3.4
Bananas and plantains	43	27	19	26
Beef, veal and venison	20	31	44	44
Beer, liqueurs and spirits	0.003	0.083	1.1	192
Beetroot	0.7	0.7	0.8	2.4
Berries and jams	9.7	6.2	5.0	5.1
Breakfast cereals with mixed grains/ fruits/ nuts	5.9	8.5	12	9
Broccoli and broccoflower	5.3	6.1	5.6	9.3
Butter and animal fats	3.0	3.5	3.9	7.4
Cabbages, Brussels sprouts and kohlrabi	0.9	2.2	3.3	6.6
Cakes, muffins and puddings	5.2	7.1	6.4	6.9
Capsicums, chillies and spices	2.1	3.3	4.7	4.7
Cauliflower	2.6	3.7	3.4	6.0
Cheeses	17	17	21	17
Chocolates, cocoa and fudge	6.3	11	10	6.7
Citrus fruits and kumquats	20	23	23	21
Coconut and coconut products	0.4	0.9	1.1	1.6
Coffee (from ground)	0.04	0.2	4.3	43
Coffee (from instant) and cereal-based beverages	0.2	1.6	19	383
Cucumbers and chokos	3.9	4.5	4.7	6.3
Dried apricots, peel, cherries, ginger and fruit leathers	1.1	1	1	1.1
Dried grapes/ figs/ dates and prunes	4.0	1.3	1.5	3.4
Dried pulses (except soy beans)	5.2	6.8	6.6	7.8
Eggs	8.4	11	12	12

Food Group	Rounded mean all respondent consumption amounts (grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Fancy breads, crumpets and English muffins	9.3	14	17	12
Fish (uncrumbed/ unbattered or canned)	6.8	7.4	8.1	8.7
Flours and single grains cereals	20	25	26	17
Fresh beans and bean sprouts	3.0	4.0	5.3	8.9
Frozen dairy based desserts	15	28	26	17
Fruit juices and ciders	105	123	150	77
Grapes	11	8.5	5.8	7.3
Hamburgers (all meat types)	1.8	7.1	11	7.2
Honey	1.7	1.8	1.7	2.0
Infant cereals	0	0	0	0.0097
Infant custards and yoghurts	0.3	0.4	0.091	0.021
Infant dinners	0.4	0	0	0.0030
Infant formulas	5.0	0	0	0.014
Lamb, mutton, kangaroo and rabbit	3.9	6.1	7.4	12
Leafy vegetables and herbs	3.2	6.5	11	12
Margarines and margarine spreads	5.5	6.6	7.1	14
Melons	17	14	9.4	11
Milks and cream	350	321	330	251
Molluscs and crustacea	0.9	1.9	1.5	3.8
Multigrain, wholemeal and rye breads	28	23	24	35
Mushrooms	1.3	1.6	2.2	3.3
Non-alcoholic beverages (except milk, waters and juices)	36	129	238	176
Oats	25	24	23	6.5
Offal (including pate and liverwurst)	0.016	0.1	0.1	0.8
Oils	3.0	4.5	5.8	3.2
Onions, garlic, shallots, spring onions and leeks	4.8	8.1	12	20
Pasta, noodles (except rice) and couscous	40	51	68	30

Food Group	Rounded mean all respondent consumption amounts (grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Peanuts and peanut butter	1.4	2.0	2.5	2.3
Pears and loquats	9	7.5	6	11
Peas (fresh, dried and sprouts)	5.4	6.3	8.5	12
Pineapple and jackfruit	3.1	3.8	3.6	5.4
Pizzas (excluding seafood)	3.3	11	20	8.1
Pork (except bacon) and deli meats (except frankfurts and poultry-based)	11	13	14	17
Poultry (excluding skinless)	8.3	16	22	24
Poultry (skinless)	14	21	28	9
Pumpkins, squash, marrows and zucchini	8	8.3	8.6	14
Red/rose wines, sherry, port and brandy	0.1	0.2	0.2	20
Rice and rice products	28	37	44	39
Root vegetables (non-starchy)	12	15	15	23
Root vegetables (starchy)	41	61	80	68
Sausages and frankfurts	8.9	9.2	10	11
Savoury biscuits and crackers	5.8	6.4	4.7	4.1
Savoury pastries (containing meat)	8.0	16	23	19
Savoury sauces (excluding tomato)	2.2	3.9	7	3.8
Savoury sauces (tomato)	6.7	6.8	8.5	3.1
Savoury snacks	4.7	10	11	3.4
Seafood (battered)	0.5	1.9	2.6	2.7
Seafood (crumbed)	3.2	2.1	2.4	2.4
Seeds and tree nuts (except coconut)	1.2	1.3	1.7	2.3
Soy beverages, soy beans and tofu	15	4.5	6.6	6.9
Stalk and stem vegetables	1.6	2.2	3.0	6.2
Stone fruits (furry skinned)	4.3	3.3	3.4	12
Stone fruits (smooth skinned) and figs	1.6	2.8	2.0	8.3
Sugars, confectionery, syrups and	12	18	21	23

Food Group	Rounded mean all respondent consumption amounts (grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
icings				
Sweet/ plain/ filled biscuits	7.3	7.4	6.8	7.5
Sweetcorn	6.7	6.7	5.8	5.3
Teas	4.6	18	37	410
Tomatoes/ eggplant/ okra (cooked or processed)	11	14	20	17
Tomatoes/ eggplant/ pepino (raw or sun-dried)	9.0	12	15	32
Tropical fruits (rough or furry skin, except pineapples and jackfruit)	1.4	1.3	1.1	2.0
Tropical fruits (smooth-skinned, except bananas, plantains, avocados & olives)	1.0	0.8	0.7	4.3
Water (bottled/ plain mineral/ soda)	27	42	74	14
Water (non-bottled)	634	850	969	938
White breads (including high-fibre white)	41	57	66	58
White wines, wine coolers, rice and ginger wines	0.033	0.02	0.057	35
Yoghurt (except frozen) and dairy desserts (except ice cream)	44	27	24	16

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey

Table A12.3 – Mean food consumption amounts derived from the 1995 NNS and the 2007 NNS, for consumers only

Food Group	Mean Consumer Consumption Amounts			
	(grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Apples and quinces	94	113	121	129
Avocadoes and olives	25	20	23	53
Bacon	13	19	22	36
Bananas and plantains	76	76	81	94
Beef, veal and venison	39	57	75	123
Beer, liqueurs and spirits	1.3	27	78	918
Beetroot	21	17	15	29
Berries and jams	26	22	20	24
Breakfast cereals with mixed grains/ fruits/ nuts	23	33	47	60
Broccoli and broccoflower	16	21	20	74
Butter and animal fats	4.9	6	7.3	21
Cabbages, Brussels sprouts and kohlrabi	14	25	33	50
Cakes, muffins and puddings	31	38	42	70
Capsicums, chillies and spices	3.3	4.9	6.2	24
Cauliflower	16	25	24	51
Cheeses	23	24	31	36
Chocolates, cocoa and fudge	9.4	14	15	22
Citrus fruits and kumquats	63	76	81	98
Coconut and coconut products	3.2	7.7	9.3	29
Coffee (from ground)	17	41	95	417

Food Group	Mean Consumer Consumption Amounts			
	(grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Coffee (from instant) and cereal-based beverages	51	225	210	718
Cucumbers and chokos	21	22	21	41
Dried apricots, peel, cherries, ginger and fruit leathers	7.6	8.1	9.4	17
Dried grapes/ figs/ dates and prunes	15	9.5	11	20
Dried pulses (except soy beans)	45	58	58	112
Eggs	17	20	19	31
Fancy breads, crumpets and English muffins	34	45	55	94
Fish (uncrumbed/ unbattered or canned)	44	52	66	94
Flours and single grains cereals	23	29	32	28
Fresh beans and bean sprouts	13	18	22	44
Frozen dairy based desserts	39	61	68	100
Fruit juices and ciders	143	168	200	198
Grapes	45	65	79	141
Hamburgers (all meat types)	55	91	110	228
Honey	7.3	10	11	19
Infant cereals	0	0	0	54
Infant custards and yoghurts	93	112	98	58
Infant dinners	153	0	0	33
Infant formulas	277	0	0	152
Lamb, mutton, kangaroo and rabbit	28	40	47	109
Leafy vegetables and herbs	6.7	11	17	31
Margarines and margarine spreads	7.6	9.1	9.9	19

Food Group	Mean Consumer Consumption Amounts			
	(grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Melons	89	133	139	242
Milks and cream	359	330	347	279
Molluscs and crustacea	23	29	24	95
Multigrain, wholemeal and rye breads	52	56	62	91
Mushrooms	11	17	19	34
Non-alcoholic beverages (except milk, waters and juices)	131	251	385	572
Oats	130	151	161	51
Offal (including pate and liverwurst)	10	24	49	49
Oils	3.9	5.7	7.1	9.3
Onions, garlic, shallots, spring onions and leeks	7.6	12	17	37
Pasta, noodles (except rice) and couscous	72	99	137	195
Peanuts and peanut butter	7.7	9.5	13	24
Pears and loquats	53	69	71	128
Peas (fresh, dried and sprouts)	14	18	22	53
Pineapple and jackfruit	30	41	47	76
Pizzas (excluding seafood)	67	100	139	204
Pork (except bacon) and deli meats (except frankfurts and poultry-based)	26	32	39	64
Poultry (excluding skinless)	39	57	74	104
Poultry (skinless)	44	66	79	122
Pumpkins, squash, marrows and zucchini	31	41	49	86

Food Group	Mean Consumer Consumption Amounts			
	(grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Red/rose wines, sherry, port and brandy	8.6	11	15	237
Rice and rice products	64	99	125	242
Root vegetables (non-starchy)	18	23	24	50
Root vegetables (starchy)	59	86	111	156
Sausages and frankfurts	34	43	51	113
Savoury biscuits and crackers	13	18	20	27
Savoury pastries (containing meat)	57	81	107	187
Savoury sauces (excluding tomato)	8.6	13	18	12
Savoury sauces (tomato)	17	17	21	20
Savoury snacks	17	25	29	45
Seafood (battered)	41	67	104	138
Seafood (crumbed)	35	43	50	86
Seeds and tree nuts (except coconut)	5.6	5.3	7.4	14
Soy beverages, soy beans and tofu	218	108	135	230
Stalk and stem vegetables	8.6	11	14	29
Stone fruits (furry skinned)	37	35	35	105
Stone fruits (smooth skinned) and figs	43	58	56	153
Sugars, confectionery, syrups and icings	13	19	23	30
Sweet/ plain/ filled biscuits	14	15	18	29
Sweetcorn	21	25	27	46
Teas	85	183	231	757

Food Group	Mean Consumer Consumption Amounts			
	(grams/day)			
	2-5 years [€]	6-12 years [€]	13-16 years [€]	17 years & above*
Tomatoes/ eggplant/ okra (cooked or processed)	35	40	54	111
Tomatoes/ eggplant/ pepino (raw or sun-dried)	36	40	44	82
Tropical fruits (rough or furry skin, except pineapples and jackfruit)	28	29	30	52
Tropical fruits (smooth-skinned, except bananas, plantains, avocados & olives)	20	24	22	66
Water (bottled/ plain mineral/ soda)	263	371	424	408
Water (non-bottled)	637	854	984	1047
White breads (including high-fibre white)	56	72	84	106
White wines, wine coolers, rice and ginger wines	5.8	8.5	11	352
Yoghurt (except frozen) and dairy desserts (except ice cream)	87	86	109	156

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey

Appendix 13: Mapping

Table A13.1 – Mapping of ATDS foods to nutrition survey foods

ATDS food	Foods translated to the ATDS food	Food group name
Almond	All tree nuts except coconut, seeds	Seeds and tree nuts (except coconut)
Apples	Apples; quinces	Apples and quinces
Avocadoes	Avocado; olives	Avocadoes and olives
Bacon	Bacon	Bacon
Baked Beans in tomato sauce	All pulses (dried beans and lentils) except soy beans	Dried pulses (except soy beans)
Bananas	Bananas; plantains	Bananas and plantains
Beans, green, raw	Pulses (fresh beans); bean sprouts	Fresh beans and bean sprouts
Beef, minced, lean	Beef; veal; venison and unspecified meat	Beef, veal and venison
Beer, full strength	Beer; non-cream & non-coffee liqueurs; non-fruit based spirits	Beer, liqueurs and spirits
Beetroot, canned	Beetroot	Beetroot
Biscuits, savoury	Savoury biscuits (excluding rice crackers); pretzels	Savoury biscuits and crackers
Biscuits, sweet, plain	Commercial plain and filled sweet biscuits; meal replacement biscuits; cones for ice cream	Sweet/ plain/ filled biscuits
Bread, fancy	Flat breads; fruit-, vegetable-, cheese-, or bacon-containing breads; English muffins; crumpets; buns	Fancy breads, crumpets and English muffins
Bread, multigrain	Multigrain, wholemeal and rye breads	Multigrain, wholemeal and rye breads
Bread, white	White and high-fibre white breads; croutons	White breads (including high-fibre white)
Breakfast cereals, mixed grains	Mixed grain breakfast cereals and brans; breakfast cereals containing fruits and/or nuts; plain muesli bars	Breakfast cereals with mixed grains/ fruits/ nuts
Breakfast cereals, single grain	Single grain breakfast cereals and brans that do not contain fruit or nuts; cornmeal; tacos; flours and starches; popcorn; bulghur	Flours and single grains cereals
Broccoli	Broccoli and broccoflower	Broccoli and broccoflower

ATDS food	Foods translated to the ATDS food	Food group name
Butter	Butter; ghee; animal fats	Butter and animal fats
Cabbage	All green, red and Chinese (e.g. buk choy, Chinese flowering) cabbages; sauerkraut; kohlrabi; Brussels sprouts	Cabbages, Brussels sprouts and kohlrabi
Cake, chocolate, iced	Commercial plain cakes and cake-style muffins (includes iced and uniced); cake-style puddings	Cakes, muffins and puddings
Capsicum	Capsicum; chillies; capers; spices; curry pastes and powders	Capsicums, chillies and spices
Carrots	Carrots and all other non-starchy root vegetables (radishes, horseradish, water chestnut)	Root vegetables (non-starchy)
Cauliflower	Cauliflower	Cauliflower
Celery	All stalk and stem vegetables (celery, celeriac, asparagus, rhubarb, bamboo shoot, fennel, artichoke)	Stalk and stem vegetables
Cheese, cheddar, full fat	Cheeses; dried cheese (recipe mixes)	Cheeses
Chicken breast	Skinless poultry fillets and pieces	Poultry (skinless)
Chicken mince	Poultry fillets and pieces with the skin; poultry mince; poultry deli-meats	Poultry (excluding skinless)
Chocolate, milk	Cocoa; chocolate; chocolate bars; chocolate coated-confectionery and fudge (excluding those with fruit, nuts, biscuit or coconut)	Chocolates, cocoa and fudge
Coconut, desiccated	Coconut; coconut products (e.g. coconut milk)	Coconut and coconut products
Coffee, espresso	Ground coffees	Coffee (from ground)
Coffee, instant	Instant coffee; cereal beverages (coffee substitutes)	Coffee (from instant) and cereal-based beverages
Cucumber	Cucumbers; cucumber pickles; chokos	Cucumbers and chokos
Dried apricots	Dried and glaze apricots; fruit peel; glaze cherries; glaze ginger; fruit leathers	Dried apricots, peel, cherries, ginger and fruit leathers
Eggs	Poultry eggs	Eggs
Fish fillets, battered from takeaway	Battered fish and other seafood	Seafood (battered)
Fish portions, frozen from supermarket	Crumbed fish and other seafood	Seafood (crumbed)
Juice, fruit	Fruit juices, including infant juices; cider; fruit based ice-confection	Fruit juices and ciders
Grapes	All raw grapes	Grapes

ATDS food	Foods translated to the ATDS food	Food group name
Ham, sliced delicatessen style	All plain pork except bacon; deli meats (except bacon, frankfurters, sausages and poultry-based)	Pork (except bacon) and deli meats (except frankfurts and poultry-based)
Hamburger	Hamburgers; chicken burgers; fish burgers	Hamburgers (all meat types)
Honey	Honey	Honey
Ice cream, full fat, vanilla	Ice creams; frozen yoghurt; milk-based ice confections	Frozen dairy based desserts
Infant cereal, mixed	Infant cereal	Infant cereals
Infant dessert, milk based	Infant custards and yoghurts	Infant custards and yoghurts
Infant dinner	Infant dinners	Infant dinners
Infant formula	Cow's milk formula; soy formula	Infant formulas
Kiwifruit	Kiwifruit; rambutan; lychees; custard apples; pomegranate	Tropical fruits (rough or furry skin, except pineapples and jackfruit)
Lamb chops, loin	Lamb; mutton; kangaroo; rabbit	Lamb, mutton, kangaroo and rabbit
Lettuce	Leafy vegetables; herbs	Leafy vegetables and herbs
Liver pate (chicken)	Beef, sheep, pig and poultry offal, including pate and liverwurst	Offal (including pate and liverwurst)
Mango	Mango; pawpaw; guavas; tamarillo; feijoa; dates; persimmons; passionfruit; starfruit	Tropical fruits (smooth-skinned, except bananas, plantains, avocados & olives)
Margarine, monounsaturated	Margarines and margarine spreads, NFS spreads/fats, vegetable based hard fats	Margarines and margarine spreads
Milk, full fat	All dairy milks (cow and goat), including dried, evaporated, condensed; flavoured milks; cream	Milks and cream
Mushrooms	Mushrooms	Mushrooms
Nectarine	"Smooth skinned" stone fruits (cherries, nectarines, plums); figs	Stone fruits (smooth skinned) and figs
Oats, rolled	Oats	Oats
Oil, canola and olive	Oils	Oils
Onions	Onions; garlic; shallots; spring onions; leeks	Onions, garlic, shallots, spring onions and leeks
Orange	Citrus fruits; kumquats; marmalade	Citrus fruits and kumquats

ATDS food	Foods translated to the ATDS food	Food group name
Pasta	Pasta; noodles (except rice noodles); couscous	Pasta, noodles (except rice) and couscous
Peach, natural juice	"Furry skinned" stone fruits (peaches, apricots)	Stone fruits (furry skinned)
Peanut butter	Peanuts; peanut butter	Peanuts and peanut butter
Pear, natural juice	Pears; loquats	Pears and loquats
Peas, frozen	Peas (fresh, dried and sprouts)	Peas (fresh, dried and sprouts)
Pie, meat, individual size	Meat and chicken pies; cornish pasties; sausage rolls; meat/chicken containing pastries and wontons	Savoury pastries (containing meat)
Pineapple, canned in natural juice	Pineapple; jackfruit	Pineapple and jackfruit
Pizza, meat and vege topping	Meat and poultry containing savoury pizzas, excluding seafood	Pizzas (excluding seafood)
Potato Crisps	Potato crisps, corn chips and extruded savoury snacks	Savoury snacks
Potato	Potatoes, excluding potato crisps; starchy root vegetables (Jerusalem artichokes, parsnips, cassava, turnips, swedes, sweet potatoes); unspecified vegetables	Root vegetables (starchy)
Prawns, cooked	Molluscs; crustacea	Molluscs and crustacea
Pumpkin	Pumpkin; squash; marrow; zucchini	Pumpkins, squash, marrows and zucchini
Rice, white, long grain	Cooked and raw rice and rice noodles, rice cakes and rice crackers	Rice and rice products
Savoury sauce, non tomato	e.g. Soy sauce; oyster sauce; BBQ sauce; Worcestershire sauce; chilli sauce	Savoury sauces (excluding tomato)
Sauce, tomato	Tomato sauces and salsas (excluding simmer sauces)	Savoury sauces (tomato)
Sausages, beef	All sausages; frankfurts	Sausages and frankfurts
Soft Drink	Soft drinks; flavoured mineral waters; tonic water; fruit-flavoured drinks; sports drinks; water ice confections; sorbet	Non-alcoholic beverages (except milk, waters and juices)
Soy Beverage, full fat	Soy beverages, soy beans (with raw equivalence factor) and tofu (with raw equivalence factor)]	Soy beverages, soy beans and tofu
Strawberries	Berries; jams	Berries and jams
Sugar, white	Sugars, sugar-confectionery, syrups, icing	Sugars, confectionery, syrups and icings

ATDS food	Foods translated to the ATDS food	Food group name
Sultanas	Dried vine fruits; dried figs; dried dates; prunes	Dried grapes/ figs/ dates and prunes
Sweetcorn, kernels, frozen	Sweetcorn	Sweetcorn
Tea	Teas	Teas
Tomatoes, canned	Canned or cooked tomatoes; tomato paste; tomato juice; cooked eggplant; cooked okra	Tomatoes/ eggplant/ okra (cooked or processed)
Tomatoes, raw	Raw tomatoes and sun-dried tomatoes, pepino, eggplant	Tomatoes/ eggplant/ pepino (raw or sun-dried)
Tuna, canned in brine	All uncrumbed or unbattered fish; canned fish	Fish (uncrumbed/ unbattered or canned)
Water, bottled, still	Bottled water, plain mineral and soda waters	Water (bottled/ plain mineral/ soda)
Water, tap	Tap water	Water (non-bottled)
Watermelon	Melons	Melons
Wine, Red	Red and rose wines; sherry; port; brandy	Red/rose wines, sherry, port and brandy
Wine, white	White wines; wine coolers; rice wine; ginger wine	White wines, wine coolers, rice and ginger wines
Yogurt, fruit, full fat	All yoghurts (excluding frozen) and dairy desserts (e.g. Mousse, fromage frais)	Yoghurt (except frozen) and dairy desserts (except ice cream)

Appendix 14: Reference Health Standards – Agricultural and veterinary chemicals

Table A14.1 – Reference Health Standards used in the dietary exposure assessments for agricultural and veterinary chemicals

Chemical Residue	ADI* or TDI# (mg/kg bw/day)	Source
2,4-D	0.01	Office of Chemical Safety ADI List – 31 March 2010
2-Phenylphenol	0.4	Office of Chemical Safety ADI List – 31 March 2010
Aldicarb	0.001	Office of Chemical Safety ADI List – 31 March 2010
Allethrin [^]	-	
Azoxystrobin	0.1	Office of Chemical Safety ADI List – 31 March 2010
Bifenthrin	0.01	Office of Chemical Safety ADI List – 31 March 2010
Boscalid	0.06	Office of Chemical Safety ADI List – 31 March 2010
Captan	0.1	Office of Chemical Safety ADI List – 31 March 2010
Carbaryl	0.008	Office of Chemical Safety ADI List – 31 March 2010
Carbendazim	0.03	Office of Chemical Safety ADI List – 31 March 2010
Chlorothalonil	0.01	Office of Chemical Safety ADI List – 31 March 2010
Chlorpropham	0.05	Office of Chemical Safety ADI List – 31 March 2010
Chlorpyrifos	0.003	Office of Chemical Safety ADI List – 31 March 2010
Chlorpyrifos-methyl	0.01	Office of Chemical Safety ADI List – 31 March 2010
p,p Dicofof	0.001	Office of Chemical Safety ADI List – 31 March 2010
Dieldrin	0.0001	Office of Chemical Safety ADI List – 31 March 2010
Dimethoate	0.02	Office of Chemical Safety ADI List – 31 March 2010
Diphenylamine	0.02	Office of Chemical Safety ADI List – 31 March 2010
Dithiocarbamate	0.004	Office of Chemical Safety ADI List – 31 March 2010 (used ADI for Thiram)
Endosulfan	0.006	Office of Chemical Safety ADI List – 31 March 2010

Chemical Residue	ADI* or TDI# (mg/kg bw/day)	Source
Fenbutatin Oxide	0.01	Office of Chemical Safety ADI List – 31 March 2010
Fenitrothion	0.002	Office of Chemical Safety ADI List – 31 March 2010
Glyphosate	0.3	Office of Chemical Safety ADI List – 31 March 2010
Guazatine	0.006	Office of Chemical Safety ADI List – 31 March 2010
Haloxfop	0.0003	Office of Chemical Safety ADI List – 31 March 2010
Imazalil	0.03	Office of Chemical Safety ADI List – 31 March 2010
Imidacloprid	0.06	Office of Chemical Safety ADI List – 31 March 2010
Iodosulfuron-methyl	0.03	Office of Chemical Safety ADI List – 31 March 2010
Iprodione	0.04	Office of Chemical Safety ADI List – 31 March 2010
Methamidophos	0.0003	Office of Chemical Safety ADI List – 31 March 2010
Methomyl	0.01	Office of Chemical Safety ADI List – 31 March 2010
Myclobutanil	0.03	Office of Chemical Safety ADI List – 31 March 2010
Nicarbazin	0.4	Office of Chemical Safety
Omethoate	0.0004	Office of Chemical Safety ADI List – 31 March 2010
Permethrin	0.05	Office of Chemical Safety ADI List – 31 March 2010
Piperonyl butoxide	0.1	Office of Chemical Safety ADI List – 31 March 2010
Pirimiphos-methyl	0.02	Office of Chemical Safety ADI List – 31 March 2010
Prochloraz	0.01	Office of Chemical Safety ADI List – 31 March 2010
Procymidone	0.03	Office of Chemical Safety ADI List – 31 March 2010
Propargite	0.002	Office of Chemical Safety ADI List – 31 March 2010
Pyrimethanil	0.2	Office of Chemical Safety ADI List – 31 March 2010
Spinosad	0.02	Office of Chemical Safety ADI List – 31 March 2010
Tebufenpyrad	0.002	Office of Chemical Safety ADI List – 31 March 2010
Triclopyr	0.005	Office of Chemical Safety ADI List – 31 March 2010

* Acceptable Daily Intake

Tolerable Daily Intake

^ No reference health standard for allethrin

Appendix 15: Reference Health Standards – Contaminants

Table A15.1 – Reference Health Standards used in the dietary exposure assessments for contaminants

Contaminant	Reference Health Standard (mg/kg bw)	Source
Aluminium	1 (PTWI [^])	JECFA 74 (2010)
Arsenic	None ¹	PTWI withdrawn at JECFA 72 (2010)
Cadmium	0.025 (PTMI [*])	JECFA 73 (2010)
Lead	None ¹	PTWI withdrawn at JECFA 73 (2010)
Inorganic Mercury ²	0.004	WHO (2011b)
Methylmercury	0.0016	JECFA 72 (2010)
Strontium	0.13 (PMTDI [~])	WHO Cicad (2010)

[^] PTWI = Provisional Tolerable Weekly Intake

^{*} PTMI = Provisional Tolerable Monthly Intake

[~]PMTDI = Provisional Maximum Tolerable Daily Intake

¹ Risk assessment based on a margin of exposure (MOE) approach

² Also applicable to dietary exposure to total mercury in foods other than fish and shellfish.

Appendix 16: Reference Health Standards – Nutrients

Table A16.1 – Adequate intakes (AIs) of nutrients used in the dietary intake assessments

Age Group	Gender	Calcium* (mg/day)	Chromium (µg/day)	Copper (mg/day)	Fluoride (mg/day)	Manganese (µg/day)	Molybdenum* (µg/day)	Potassium (mg/day)	Selenium* (µg/day)
7-12 months		210	5.5	0.2	0.5	600	3	700	15
2-3 years	Males	-	11.0	0.7	0.7	2,000	-	2,000	-
	Females	-	11.0	0.7	0.7	2,000	-	2,000	-
4-8 years	Males	-	15.0	1.0	1.0	2,500	-	2,300	-
	Females	-	15.0	1.0	1.0	2,500	-	2,300	-
9-13 years	Males	-	25.0	1.3	2.0	3,000	-	3,000	-
	Females	-	21.0	1.1	2.0	2,500	-	2,500	-
14-18 years	Males	-	35.0	1.5	3.0	3,500	-	3,600	-
	Females	-	25.0	1.1	3.0	3,000	-	2,600	-
19-29 years	Males	-	35.0	1.7	4.0	5,500	-	3,800	-
	Females	-	25.0	1.2	3.0	5,000	-	2,800	-
30-49 years	Males	-	35.0	1.7	4.0	5,500	-	3,800	-
	Females	-	25.0	1.2	3.0	5,000	-	2,800	-
50-69 years	Males	-	35.0	1.7	4.0	5,500	-	3,800	-

Age Group	Gender	Calcium* (mg/day)	Chromium (µg/day)	Copper (mg/day)	Fluoride (mg/day)	Manganese (µg/day)	Molybdenum* (µg/day)	Potassium (mg/day)	Selenium* (µg/day)
	Females	-	25.0	1.2	3.0	5,000	-	2,800	
70 years & above	Males	-	35.0	1.7	4.0	5,500	-	3,800	
	Females	-	25.0	1.2	3.0	5,000	-	2,800	

* No AIs for all age-gender groups for calcium, molybdenum and selenium, except for infants aged 7-12 months

Table A16.2 – Estimated Average Requirements (EARs) of nutrients used in the dietary intake assessments

Age Group	Gender	Molybdenum (µg/day)	Selenium (µg/day)
2-3 years	Males	13	20
	Females	13	20
4-8 years	Males	17	25
	Females	17	25
9-13 years	Males	26	40
	Females	26	40
14-18 years	Males	33	60
	Females	33	50
19-29 years	Males	34	60
	Females	34	50
30-49 years	Males	34	60
	Females	34	50
50-69 years	Males	34	60
	Females	34	50
70 years & above	Males	34	60
	Females	34	50

Table A16.3 – Upper Levels of Intake (ULs) for nutrients used in the dietary intake assessments

Age Group	Gender	Calcium (mg/day)	Copper (mg/day)	Fluoride (mg/day)	Iron (mg/day)	Molybdenum (µg/day)	Selenium (µg/day)	Zinc (mg/day)
7-12 months*		-	-	0.9	20	-	60	5
2-3 years	Males	2,500	1	1.3	20	300	90	7
	Females	2,500	1	1.3	20	300	90	7
4-8 years	Males	2,500	3	2.2	40	600	150	12
	Females	2,500	3	2.2	40	600	150	12
9-13 years	Males	2,500	5	10.0	40	1,100	280	25
	Females	2,500	5	10.0	40	1,100	280	25
14-18 years	Males	2,500	8	10.0	45	1,700	400	35
	Females	2,500	8	10.0	45	1,700	400	35
19-29 years	Males	2,500	10	10.0	45	2,000	400	40
	Females	2,500	10	10.0	45	2,000	400	40
30-49 years	Males	2,500	10	10.0	45	2,000	400	40
	Females	2,500	10	10.0	45	2,000	400	40
50-69 years	Males	2,500	10	10.0	45	2,000	400	40
	Females	2,500	10	10.0	45	2,000	400	40

Age Group	Gender	Calcium (mg/day)	Copper (mg/day)	Fluoride (mg/day)	Iron (mg/day)	Molybdenum (µg/day)	Selenium (µg/day)	Zinc (mg/day)
Age Group	Gender	Calcium (mg/day)	Copper (mg/day)	Fluoride (mg/day)	Iron (mg/day)	Molybdenum (µg/day)	Selenium (µg/day)	Zinc (mg/day)
70 years & above	Males	2,500	10	10.0	45	2,000	400	40
	Females	2,500	10	10.0	45	2,000	400	40

* No ULs for calcium, copper and molybdenum for infants aged 7-12 months.

Appendix 17: Estimated dietary exposures to agricultural and veterinary chemicals

Table A17.1 – Estimated dietary exposures to agricultural and veterinary chemicals, derived using mean residue concentrations

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
2,4-D	9 months [✱]			0.014	0.028	<1	0.0031
	2-5 yrs [€]	1,178	32	0.13	0.26	<1	0.014
	6-12 yrs [€]	2,090	31	0.15	0.29	<1	0.0094
	13-16 yrs [€]	1,219	28	0.16	0.32	<1	0.0055
	17 yrs & above [*]	11,129	21	0.20	0.41	<1	0.0062
2-Phenylphenol	9 months [✱]			0.0028	0.0056	<1	0.00063
	2-5 yrs [€]	1,178	12	0.068	0.15	<1	0.0085
	6-12 yrs [€]	2,090	10	0.10	0.21	<1	0.0064
	13-16 yrs [€]	1,219	11	0.12	0.27	<1	0.004
	17 yrs & above [*]	11,129	10	0.21	0.49	<1	0.0063

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Aldicarb	9 months [✕]			0.0059	0.012	<1	0.0013
	2-5 yrs [€]	1,178	8	0.35	0.64	4	0.036
	6-12 yrs [€]	2,090	18	0.55	1.04	3	0.028
	13-16 yrs [€]	1,219	23	0.72	1.40	2	0.024
	17 yrs & above*	11,129	7	1.15	2.24	3	0.029
Allethrin	9 months [✕]			0.0078	0.016	-	0.0018
	2-5 yrs [€]	1,178	36	0.083	0.16	-	0.0093
	6-12 yrs [€]	2,090	30	0.11	0.22	-	0.0068
	13-16 yrs [€]	1,219	30	0.13	0.25	-	0.0041
	17 yrs & above*	11,129	19	0.23	0.49	-	0.0066
Azoxyastrobin	9 months [✕]			0.0007	0.0014	<1	0.00016
	2-5 yrs [€]	1,178	19	0.013	0.033	<1	0.0018
	6-12 yrs [€]	2,090	20	0.017	0.034	<1	0.001
	13-16 yrs [€]	1,219	21	0.021	0.044	<1	0.00081
	17 yrs & above*	11,129	21	0.043	0.097	<1	0.0014

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Bifenthrin	9 months [✕]			0.0059	0.012	<1	0.0013
	2-5 yrs [€]	1,178	4	0.79	1.4	<1	0.072
	6-12 yrs [€]	2,090	5	1.1	2.4	<1	0.085
	13-16 yrs [€]	1,219	4	1.0	2.4	<1	0.033
	17 yrs & above*	11,129	5	2.8	5.5	<1	0.081
Boscalid	9 months [✕]			0.062	0.12	<1	0.014
	2-5 yrs [€]	1,178	88	0.23	0.51	<1	0.029
	6-12 yrs [€]	2,090	91	0.29	0.62	<1	0.019
	13-16 yrs [€]	1,219	94	0.33	0.68	<1	0.012
	17 yrs & above*	11,129	86	0.64	1.33	<1	0.018
Captan	9 months [✕]			1.5	3.1	<1	0.35
	2-5 yrs [€]	1,178	81	6.8	14.1	<1	0.81
	6-12 yrs [€]	2,090	73	6.6	12.9	<1	0.42
	13-16 yrs [€]	1,219	63	6.4	13.3	<1	0.23
	17 yrs & above*	11,129	53	13.5	33.4	<1	0.46

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Carbaryl	9 months [✕]			0.011	0.023	<1	0.0026
	2-5 yrs [€]	1,178	5	0.83	1.82	1	0.085
	6-12 yrs [€]	2,090	4	0.86	1.57	<1	0.045
	13-16 yrs [€]	1,219	4	0.89	1.82	<1	0.033
	17 yrs & above*	11,129	4	1.53	3.64	<1	0.045
Carbendazim	9 months [✕]			2.1	4.2	2	0.48
	2-5 yrs [€]	1,178	100	7.6	17.8	3	0.98
	6-12 yrs [€]	2,090	99	8.0	18.8	2	0.6
	13-16 yrs [€]	1,219	99	7.1	18.5	1	0.33
	17 yrs & above*	11,129	85	6.5	18.0	<1	0.27
Chlorpropham	9 months [✕]			0.083	0.17	<1	0.019
	2-5 yrs [€]	1,178	28	1.5	3.1	<1	0.18
	6-12 yrs [€]	2,090	41	2.2	4.4	<1	0.14
	13-16 yrs [€]	1,219	39	2.5	5.5	<1	0.099
	17 yrs & above*	11,129	8	3.9	8.3	<1	0.11

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Chlorothalonil	9 months [✕]			0.16	0.32	<1	0.036
	2-5 yrs [€]	1,178	53	1.4	4.2	2	0.23
	6-12 yrs [€]	2,090	61	2.4	6.4	2	0.18
	13-16 yrs [€]	1,219	68	3.8	9.5	2	0.15
	17 yrs & above*	11,129	42	6.3	14.3	2	0.21
Chlorpyrifos	9 months [✕]			1.1	2.2	8	0.25
	2-5 yrs [€]	1,178	79	5.2	10.8	20	0.62
	6-12 yrs [€]	2,090	74	5.9	12.4	15	0.41
	13-16 yrs [€]	1,219	66	5.6	12.5	8	0.23
	17 yrs & above*	11,129	48	5.3	11.9	6	0.18
Chlorpyrifos-methyl	9 months [✕]			0.51	1.0	1	0.11
	2-5 yrs [€]	1,178	99	2.0	3.4	2	0.19
	6-12 yrs [€]	2,090	99	2.7	4.4	1	0.14
	13-16 yrs [€]	1,219	98	3.2	5.8	1	0.1
	17 yrs & above*	11,129	92	3.1	5.7	<1	0.078

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
p,p Dicofol	9 months [✕]			0.053	0.11	1	0.012
	2-5 yrs [€]	1,178	77	0.25	0.68	4	0.037
	6-12 yrs [€]	2,090	76	0.30	0.81	2	0.024
	13-16 yrs [€]	1,219	82	0.37	1.09	2	0.019
	17 yrs & above*	11,129	35	0.85	2.21	3	0.031
Dieldrin	9 months [✕]			0.014	0.029	3	0.0032
	2-5 yrs [€]	1,178	26	0.16	0.36	20	0.021
	6-12 yrs [€]	2,090	20	0.21	0.50	15	0.013
	13-16 yrs [€]	1,219	17	0.25	0.58	10	0.01
	17 yrs & above*	11,129	16	0.44	0.87	10	0.012
Dimethoate	9 months [✕]			0.16	0.31	<1	0.035
	2-5 yrs [€]	1,178	87	0.66	1.6	<1	0.09
	6-12 yrs [€]	2,090	87	0.83	2.1	<1	0.062
	13-16 yrs [€]	1,219	90	1.1	2.6	<1	0.046
	17 yrs & above*	11,129	60	1.7	4.2	<1	0.061

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Diphenylamine	9 months [✕]			12	24	15	2.7
	2-5 yrs [€]	1,178	67	64	114	35	6.7
	6-12 yrs [€]	2,090	59	77	142	25	4.7
	13-16 yrs [€]	1,219	46	83	153	15	2.8
	17 yrs & above [*]	11,129	29	88	182	10	2.3
Dithiocarbamates	9 months [✕]			3.6	7.1	20	0.80
	2-5 yrs [€]	1,178	87	15	30	45	1.7
	6-12 yrs [€]	2,090	80	18	36	30	1.2
	13-16 yrs [€]	1,219	74	17	35	15	0.62
	17 yrs & above [*]	11,129	59	23	53	20	0.75
Endosulfan	9 months [✕]			0.077	0.15	<1	0.017
	2-5 yrs [€]	1,178	25	1.1	2.5	2	0.14
	6-12 yrs [€]	2,090	29	1.2	2.6	1	0.082
	13-16 yrs [€]	1,219	35	1.3	2.9	<1	0.047
	17 yrs & above [*]	11,129	39	2.5	5.1	1	0.072

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Fenbutatin Oxide	9 months [✕]			0.14	0.29	<1	0.032
	2-5 yrs [€]	1,178	53	0.96	2.3	1	0.14
	6-12 yrs [€]	2,090	49	1.1	2.8	<1	0.079
	13-16 yrs [€]	1,219	53	1.5	3.6	<1	0.057
	17 yrs & above*	11,129	46	1.1	2.7	<1	0.037
Fenitrothion	9 months [✕]			0.084	0.17	<1	0.019
	2-5 yrs [€]	1,178	54	0.51	1.1	3	0.063
	6-12 yrs [€]	2,090	50	0.55	1.1	2	0.039
	13-16 yrs [€]	1,219	38	0.68	1.4	1	0.025
	17 yrs & above*	11,129	26	1.1	2.1	1	0.029
Glyphosate	9 months [✕]			0.12	0.25	<1	0.028
	2-5 yrs [€]	1,178	53	0.81	1.5	<1	0.086
	6-12 yrs [€]	2,090	41	0.87	1.6	<1	0.053
	13-16 yrs [€]	1,219	38	0.97	1.8	<1	0.031
	17 yrs & above*	11,129	39	1.4	2.6	<1	0.036

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Guazatine	9 months [✕]			0.0051	0.010	<1	0.0011
	2-5 yrs [€]	1,178	19	0.095	0.24	<1	0.013
	6-12 yrs [€]	2,090	20	0.12	0.25	<1	0.0076
	13-16 yrs [€]	1,219	21	0.16	0.32	<1	0.0059
	17 yrs & above*	11,129	21	0.32	0.71	<1	0.010
Haloxypop	9 months [✕]			0.0042	0.0085	<1	0.00095
	2-5 yrs [€]	1,178	10	0.13	0.30	6	0.017
	6-12 yrs [€]	2,090	9	0.17	0.43	4	0.012
	13-16 yrs [€]	1,219	8	0.20	0.70	4	0.011
	17 yrs & above*	11,129	7	0.32	0.65	3	0.0096
Imazalil	9 months [✕]			0.37	0.74	<1	0.084
	2-5 yrs [€]	1,178	32	3.4	6.9	1	0.38
	6-12 yrs [€]	2,090	31	4.1	7.9	<1	0.25
	13-16 yrs [€]	1,219	28	4.3	8.5	<1	0.15
	17 yrs & above*	11,129	21	5.3	11	<1	0.17

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Imidacloprid	9 months [✕]			0.015	0.029	<1	0.0033
	2-5 yrs [€]	1,178	74	0.091	0.27	<1	0.014
	6-12 yrs [€]	2,090	79	0.17	0.47	<1	0.014
	13-16 yrs [€]	1,219	87	0.27	0.73	<1	0.012
	17 yrs & above*	11,129	47	0.51	1.2	<1	0.017
Iodosulfuron-methyl	9 months [✕]			0.035	0.069	<1	0.0078
	2-5 yrs [€]	1,178	65	0.18	0.38	<1	0.022
	6-12 yrs [€]	2,090	67	0.20	0.44	<1	0.014
	13-16 yrs [€]	1,219	61	0.26	0.60	<1	0.010
	17 yrs & above*	11,129	49	0.27	0.66	<1	0.0091
Iprodione	9 months [✕]			12	24	7	2.7
	2-5 yrs [€]	1,178	92	48	109	15	6.1
	6-12 yrs [€]	2,090	87	53	120	10	3.9
	13-16 yrs [€]	1,219	80	48	122	5	2.2
	17 yrs & above*	11,129	68	42	111	4	1.7

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Methamidophos	9 months [✕]			0.033	0.066	2	0.0074
	2-5 yrs [€]	1,178	63	0.19	0.60	10	0.032
	6-12 yrs [€]	2,090	67	0.29	0.83	8	0.023
	13-16 yrs [€]	1,219	76	0.36	1.1	6	0.019
	17 yrs & above*	11,129	18	1.4	3.0	15	0.043
Methomyl	9 months [✕]			0.070	0.14	<1	0.016
	2-5 yrs [€]	1,178	84	0.29	0.75	<1	0.044
	6-12 yrs [€]	2,090	84	0.23	0.54	<1	0.017
	13-16 yrs [€]	1,219	86	0.23	0.53	<1	0.0092
	17 yrs & above*	11,129	65	0.30	0.62	<1	0.0089
Myclobutanil	9 months [✕]			0.033	0.066	<1	0.0075
	2-5 yrs [€]	1,178	38	0.30	0.76	<1	0.044
	6-12 yrs [€]	2,090	28	0.26	0.56	<1	0.019
	13-16 yrs [€]	1,219	25	0.23	0.51	<1	0.0091
	17 yrs & above*	11,129	21	0.29	0.66	<1	0.0096

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Nicarbazin	9 months [✕]			1.1	2.2	<1	0.25
	2-5 yrs [€]	1,178	71	5.7	14	<1	0.79
	6-12 yrs [€]	2,090	75	8.8	23	<1	0.64
	13-16 yrs [€]	1,219	78	11	30	<1	0.52
	17 yrs & above*	11,129	55	9.5	29	<1	0.39
Omethoate	9 months [✕]			0.0039	0.0077	<1	0.00087
	2-5 yrs [€]	1,178	63	0.023	0.070	<1	0.0037
	6-12 yrs [€]	2,090	67	0.034	0.097	<1	0.0027
	13-16 yrs [€]	1,219	76	0.043	0.13	<1	0.0022
	17 yrs & above*	11,129	18	0.17	0.35	1	0.005
Permethrin	9 months [✕]			0.093	0.19	<1	0.021
	2-5 yrs [€]	1,178	48	0.91	2.9	<1	0.15
	6-12 yrs [€]	2,090	57	1.5	4.0	<1	0.11
	13-16 yrs [€]	1,219	66	2.4	5.8	<1	0.093
	17 yrs & above*	11,129	38	4.2	9.4	<1	0.14

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Piperonyl butoxide	9 months [✕]			2.6	5.2	<1	0.59
	2-5 yrs [€]	1,178	100	9.3	16	<1	0.94
	6-12 yrs [€]	2,090	100	11	21	<1	0.68
	13-16 yrs [€]	1,219	100	12	24	<1	0.43
	17 yrs & above*	11,129	98	9.6	21	<1	0.28
Pirimiphos-methyl	9 months [✕]			0.13	0.25	<1	0.028
	2-5 yrs [€]	1,178	76	0.56	1.2	<1	0.067
	6-12 yrs [€]	2,090	67	0.56	1.2	<1	0.039
	13-16 yrs [€]	1,219	58	0.64	1.3	<1	0.022
	17 yrs & above*	11,129	49	1.0	1.9	<1	0.027
Prochloraz	9 months [✕]			0.065	0.13	<1	0.015
	2-5 yrs [€]	1,178	48	0.64	2.0	1	0.10
	6-12 yrs [€]	2,090	57	1.1	2.8	<1	0.079
	13-16 yrs [€]	1,219	66	1.6	4.1	<1	0.065
	17 yrs & above*	11,129	38	3.0	6.6	<1	0.096

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Procymidone	9 months [✕]			0	0	0	0
	2-5 yrs [€]	1,178	26	1.4	2.6	<1	0.14
	6-12 yrs [€]	2,090	26	1.9	3.5	<1	0.11
	13-16 yrs [€]	1,219	25	2.7	5.2	<1	0.098
	17 yrs & above*	11,129	15	3.5	6.8	<1	0.091
Propargite	9 months [✕]			2.3	4.5	25	0.51
	2-5 yrs [€]	1,178	84	9.6	20	60	1.2
	6-12 yrs [€]	2,090	71	12	24	40	0.78
	13-16 yrs [€]	1,219	57	12	26	25	0.46
	17 yrs & above*	11,129	38	13	26	20	0.38
Pyrimethanil	9 months [✕]			0.60	1.2	<1	0.13
	2-5 yrs [€]	1,178	51	4.0	10	<1	0.62
	6-12 yrs [€]	2,090	37	3.6	8.6	<1	0.29
	13-16 yrs [€]	1,219	30	3.5	7.8	<1	0.14
	17 yrs & above*	11,129	24	4.5	11	<1	0.14

Chemical Name	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to agricultural & veterinary residues			
				Mean	90 th percentile		90 th percentile
				µg/day	µg/day	%ADI	µg/kg bw/day
Spinosad	9 months [✕]			0.0078	0.016	<1	0.0017
	2-5 yrs [€]	1,178	48	0.076	0.24	<1	0.012
	6-12 yrs [€]	2,090	57	0.13	0.33	<1	0.0094
	13-16 yrs [€]	1,219	66	0.20	0.49	<1	0.0078
	17 yrs & above*	11,129	38	0.35	0.79	<1	0.011
Tebufenpyrad	9 months [✕]			0.21	0.42	2	0.047
	2-5 yrs [€]	1,178	68	1.1	2.0	6	0.12
	6-12 yrs [€]	2,090	61	1.4	2.5	4	0.083
	13-16 yrs [€]	1,219	47	1.5	2.7	2	0.049
	17 yrs & above*	11,129	33	1.6	3.2	2	0.043
Triclopyr	9 months [✕]			0.12	0.25	<1	0.028
	2-5 yrs [€]	1,178	90	0.47	0.91	1	0.054
	6-12 yrs [€]	2,090	88	0.59	1.3	<1	0.041
	13-16 yrs [€]	1,219	81	0.66	1.5	<1	0.026
	17 yrs & above*	11,129	62	0.58	1.3	<1	0.018

[✕] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Appendix 18: Estimated dietary exposures to contaminants

Table A18.1 – Estimated dietary exposures to contaminants at the mean and 90th percentile (mg/day), derived using median contaminant concentrations

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants					
				Mean		90 th percentile		90 th percentile	
				(mg/day)		(mg/day)		(µg/kg bw/day)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Aluminium	9 months [⌘]			0.45	0.47	0.90	0.94	1.3	2.0
	2-5 yrs [€]	1,178	100	1.3	1.4	2.6	2.7	150	160
	6-12 yrs [€]	2,090	100	1.6	1.7	3.4	3.5	100	110
	13-16 yrs [€]	1,219	100	1.8	1.9	3.4	3.6	57	59
	17 yrs & above [*]	11,129	100	2.7	2.8	5.1	5.2	71	73
Arsenic, total	9 months [⌘]			0.0056	0.0088	0.011	0.018	1.3	2.0
	2-5 yrs [€]	1,178	100	0.018	0.025	0.051	0.058	2.8	3.2
	6-12 yrs [€]	2,090	100	0.024	0.032	0.063	0.073	2.0	2.2
	13-16 yrs [€]	1,219	100	0.028	0.037	0.075	0.086	1.2	1.4
	17 yrs & above [*]	11,129	100	0.030	0.041	0.073	0.084	1.0	1.2

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants					
				Mean		90 th percentile		90 th percentile	
				(mg/day)		(mg/day)		(µg/kg bw/day)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Cadmium	9 months [⌘]			0.0014	0.0019	0.0028	0.0038	0.31	0.42
	2-5 yrs [€]	1,178	100	0.0049	0.0057	0.0076	0.0084	0.44	0.49
	6-12 yrs [€]	2,090	100	0.0067	0.0076	0.011	0.012	0.34	0.37
	13-16 yrs [€]	1,219	100	0.0080	0.0090	0.013	0.014	0.23	0.25
	17 yrs & above [*]	11,129	100	0.0065	0.0079	0.012	0.014	0.17	0.19
Lead	9 months [⌘]			0.0020	0.0021	0.0039	0.0041	0.44	0.46
	2-5 yrs [€]	1,178	100	0.0046	0.0049	0.0069	0.0071	0.40	0.41
	6-12 yrs [€]	2,090	100	0.0059	0.0062	0.0086	0.0090	0.27	0.29
	13-16 yrs [€]	1,219	100	0.0071	0.0075	0.011	0.011	0.18	0.19
	17 yrs & above [*]	11,129	100	0.0092	0.0098	0.016	0.017	0.23	0.24

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants					
				Mean		90 th percentile		90 th percentile	
				(mg/day)		(mg/day)		(µg/kg bw/day)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Inorganic Mercury	9 months [⌘]			0.00065	0.0010	0.0013	0.0019	0.15	0.22
	2-5 yrs [€]	1,178	100	0.0016	0.0023	0.0022	0.0031	0.12	0.18
	6-12 yrs [€]	2,090	100	0.0020	0.0029	0.0028	0.0038	0.089	0.13
	13-16 yrs [€]	1,219	100	0.0022	0.0033	0.0033	0.0046	0.057	0.083
	17 yrs & above [*]	11,129	100	0.0021	0.0035	0.0033	0.0053	0.047	0.074
Methyl-mercury	9 months [⌘]			0.00011	0.00011	0.00022	0.00022	0.025	0.025
	2-5 yrs [€]	1,178	26	0.0015	0.0015	0.0032	0.0032	0.18	0.18
	6-12 yrs [€]	2,090	24	0.0022	0.0022	0.0051	0.0051	0.16	0.16
	13-16 yrs [€]	1,219	22	0.0030	0.0030	0.0062	0.0062	0.11	0.11
	17 yrs & above [*]	11,129	15	0.0045	0.0045	0.011	0.011	0.15	0.15

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants					
				Mean		90 th percentile		90 th percentile	
				(mg/day)		(mg/day)		(µg/kg bw/day)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Strontium	9 months [⌘]			0.49	0.52	0.98	1.0	110	120
	2-5 yrs [€]	1,178	100	1.2	1.3	1.7	1.7	100	100
	6-12 yrs [€]	2,090	100	1.4	1.5	2.0	2.0	66	67
	13-16 yrs [€]	1,219	100	1.6	1.7	2.4	2.5	43	44
	17 yrs & above [*]	11,129	100	1.8	1.9	2.9	3.0	40	41

[⌘] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Table A18.2 – Estimated dietary exposures to contaminants at the mean and 90th percentile (% Reference Health Standard), derived using median contaminant concentrations

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants			
				Mean (% Reference Health Standard)		90 th percentile (% Reference Health Standard)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Aluminium	9 months [⌘]			17.5	17.5	35	37.5
	2-5 yrs [€]	1,178	100	25	27.5	55	55
	6-12 yrs [€]	2,090	100	17.5	17.5	37.5	37.5
	13-16 yrs [€]	1,219	100	10	12.5	20	20
	17 yrs & above [*]	11,129	100	12.5	12.5	25	25
Cadmium	9 months [⌘]			20	25	40	50
	2-5 yrs [€]	1,178	100	35	40	50	60
	6-12 yrs [€]	2,090	100	25	30	40	45
	13-16 yrs [€]	1,219	100	15	20	25	25
	17 yrs & above [*]	11,129	100	10	15	20	25

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants			
				Mean (% Reference Health Standard)		90 th percentile (% Reference Health Standard)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Inorganic Mercury	9 months [⌘]			15	20	25	40
	2-5 yrs [€]	1,178	100	15	25	20	30
	6-12 yrs [€]	2,090	100	10	15	15	20
	13-16 yrs [€]	1,219	100	7	10	10	15
	17 yrs & above [*]	11,129	100	5	9	8	15
Methyl-mercury	9 months [⌘]			5	5	10	10
	2-5 yrs [€]	1,178	26	40	40	80	80
	6-12 yrs [€]	2,090	24	30	30	70	70
	13-16 yrs [€]	1,219	22	20	20	45	45
	17 yrs & above [*]	11,129	15	25	25	65	65

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants			
				Mean (% Reference Health Standard)		90 th percentile (% Reference Health Standard)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Strontium	9 months [⌘]			40	45	85	90
	2-5 yrs [€]	1,178	100	55	55	80	80
	6-12 yrs [€]	2,090	100	35	35	50	50
	13-16 yrs [€]	1,219	100	20	20	35	35
	17 yrs & above [*]	11,129	100	20	20	30	30

[⌘] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Table A18.3 – Estimated dietary exposures to aluminium at the mean and 90th percentile (mg/day), derived using mean analytical concentrations

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants [^]			
				Mean (mg/day)		90 th percentile (mg/day)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Aluminium	9 months [⌘]			0.68	0.69	1.4	1.4
	2-5 yrs [€]	1,178	100	1.9	2.0	4.1	4.1
	6-12 yrs [€]	2,090	100	2.5	2.6	5.2	5.3
	13-16 yrs [€]	1,219	100	2.9	2.9	6.1	6.1
	17 yrs & above [*]	11,129	100	3.6	3.7	7.2	7.3

[^] derived using mean analytical concentrations

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Table A18.4 - Estimated dietary exposures to aluminium at the mean and 90th percentile (% Reference Health Standard), derived using mean analytical concentrations

Chemical	Age Group	No. Respondents	% consumers to respondents	Estimated consumer dietary exposures to contaminants [^]			
				Mean (% Reference Health Standard)		90 th percentile (% Reference Health Standard)	
				'nd=0'	'nd=LOQ'	'nd=0'	'nd=LOQ'
Aluminium	9 months [⌘]			27.5	27.5	55	55
	2-5 yrs [€]	1,178	100	37.5	40	80	85
	6-12 yrs [€]	2,090	100	27.5	27.5	55	60
	13-16 yrs [€]	1,219	100	17.5	17.5	35	37.5
	17 yrs & above [*]	11,129	100	17.5	17.5	35	37.5

[^] derived using mean analytical concentrations

[⌘] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Appendix 19: Estimated dietary intakes of nutrients

Table A19.1 – Estimated dietary intakes of calcium at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Calcium Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [⌘]	All	507	n/a [∞]	1,010
2-3 yrs [€]	Male	878	545	1,270
	Female	801	476	1,210
4-8 yrs [€]	Male	877	522	1,290
	Female	773	462	1,230
9-13 yrs [€]	Male	951	528	1,530
	Female	798	461	1,240
14-16 yrs [€]	Male	1,166	692	1,970
	Female	829	531	1,310
17-18 yrs [*]	Male	1,220	648	2,300
	Female	817	318	1,530
19-29 yrs [*]	Male	1,170	607	2,060
	Female	821	370	1,470
30-49 yrs [*]	Male	1,000	497	1,770
	Female	785	402	1,350
50-69 yrs [*]	Male	899	446	1,530
	Female	751	398	1,240
70 yrs & above [*]	Male	802	420	1,290
	Female	695	376	1,170

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[⌘] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th percentile could not be calculated

Table A19.2 – Estimated dietary intakes of chromium at the mean, 5th and 95th percentile (µg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (µg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	32	n/a [∞]	65
2-3 yrs [€]	Male	75	58	95
	Female	69	52	90
4-8 yrs [€]	Male	84	63	110
	Female	75	56	101
9-13 yrs [€]	Male	97	68	133
	Female	83	59	115
14-16 yrs [€]	Male	124	87	170
	Female	90	64	118
17-18 yrs [*]	Male	146	106	204
	Female	99	65	138
19-29 yrs [*]	Male	146	109	194
	Female	99	67	142
30-49 yrs [*]	Male	135	92	188
	Female	97	68	136
50-69 yrs [*]	Male	125	85	176
	Female	94	67	126
70 yrs & above [*]	Male	114	80	153
	Female	87	63	119

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.3 – Estimated dietary intakes of cobalt at the mean, 5th and 95th percentile (µg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (µg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [∞]	All	5.9	n/a [∞]	12
2-3 yrs [€]	Male	15	11	19
	Female	13	10	17
4-8 yrs [€]	Male	16	12	22
	Female	15	11	20
9-13 yrs [€]	Male	19	13	27
	Female	16	11	23
14-16 yrs [€]	Male	24	18	33
	Female	18	13	25
17-18 yrs [*]	Male	32	22	45
	Female	22	14	37
19-29 yrs [*]	Male	33	22	49
	Female	24	15	38
30-49 yrs [*]	Male	33	20	53
	Female	26	15	40
50-69 yrs [*]	Male	31	18	49
	Female	24	15	38
70 yrs & above [*]	Male	26	16	38
	Female	21	13	32

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[∞] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th percentile could not be calculated

Table A19.4 – Estimated dietary intakes of copper at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	0.73	n/a [∞]	1.46
2-3 yrs [€]	Male	1.02	0.74	1.42
	Female	0.94	0.66	1.30
4-8 yrs [€]	Male	1.16	0.81	1.64
	Female	1.03	0.74	1.43
9-13 yrs [€]	Male	1.33	0.91	1.92
	Female	1.16	0.78	1.67
14-16 yrs [€]	Male	1.62	1.04	2.43
	Female	1.28	0.83	1.87
17-18 yrs [*]	Male	1.84	1.25	2.78
	Female	1.36	0.83	2.04
19-29 yrs [*]	Male	1.89	1.28	2.89
	Female	1.42	0.86	2.25
30-49 yrs [*]	Male	1.75	1.02	2.75
	Female	1.40	0.89	2.15
50-69 yrs [*]	Male	1.57	0.94	2.46
	Female	1.33	0.91	1.91
70 yrs & above [*]	Male	1.41	0.86	2.11
	Female	1.22	0.86	1.70

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th percentile could not be calculated

Table A19.5 – Estimated dietary intakes of fluoride at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	0.68	n/a [∞]	1.37
2-3 yrs [€]	Male	1.56	1.13	2.14
	Female	1.46	1.00	1.99
4-8 yrs [€]	Male	1.84	1.24	2.58
	Female	1.66	1.14	2.25
9-13 yrs [€]	Male	2.21	1.43	3.13
	Female	1.95	1.29	2.91
14-16 yrs [€]	Male	2.73	1.85	3.87
	Female	2.16	1.45	3.05
17-18 yrs [*]	Male	3.19	2.01	4.78
	Female	2.48	1.59	3.88
19-29 yrs [*]	Male	3.36	2.12	5.17
	Female	2.67	1.60	4.08
30-49 yrs [*]	Male	3.24	1.78	5.18
	Female	2.76	1.49	4.40
50-69 yrs [*]	Male	3.14	1.69	4.97
	Female	2.80	1.52	4.37
70 yrs & above [*]	Male	2.98	1.61	4.52
	Female	2.63	1.51	3.96

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th percentile could not be calculated

Table A19.6 – Estimated dietary intakes of iron at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Iron Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	8.3	n/a [∞]	16.6
2-3 yrs [€]	Male	8.1	6.0	11.0
	Female	7.3	5.2	10.0
4-8 yrs [€]	Male	9.3	6.6	13.1
	Female	7.8	5.5	11.1
9-13 yrs [€]	Male	10.7	7.0	16.9
	Female	8.6	5.7	12.6
14-16 yrs [€]	Male	13.9	8.8	22.5
	Female	8.9	6.2	13.3
17-18 yrs [*]	Male	15.3	9.1	27.0
	Female	9.5	5.9	15.6
19-29 yrs [*]	Male	14.8	8.6	24.3
	Female	9.7	5.7	16.2
30-49 yrs [*]	Male	13.4	8.1	20.9
	Female	9.3	5.5	14.9
50-69 yrs [*]	Male	12.4	7.9	18.7
	Female	9.2	5.6	14.5
70 yrs & above [*]	Male	11.6	7.9	16.7
	Female	8.7	5.4	13.3

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.7 – Estimated dietary intakes of manganese at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	0.88	n/a [∞]	1.76
2-3 yrs [€]	Male	2.83	2.10	3.87
	Female	2.55	1.85	3.55
4-8 yrs [€]	Male	3.16	2.28	4.35
	Female	2.74	1.94	3.78
9-13 yrs [€]	Male	3.57	2.40	5.15
	Female	2.96	2.00	4.40
14-16 yrs [€]	Male	4.54	2.84	7.23
	Female	3.22	2.06	4.87
17-18 yrs [*]	Male	4.92	2.94	8.51
	Female	3.60	2.32	5.40
19-29 yrs [*]	Male	5.08	2.91	8.84
	Female	3.94	2.37	6.38
30-49 yrs [*]	Male	5.30	2.79	8.68
	Female	4.36	2.49	7.12
50-69 yrs [*]	Male	5.38	2.84	8.74
	Female	4.55	2.50	7.13
70 yrs & above [*]	Male	5.23	2.94	8.29
	Female	4.34	2.54	6.71

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.8 – Estimated dietary intakes of molybdenum at the mean, 5th and 95th percentile (µg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Intake (µg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	28	n/a [∞]	55
2-3 yrs [€]	Male	75	42	124
	Female	68	40	124
4-8 yrs [€]	Male	76	45	127
	Female	70	43	115
9-13 yrs [€]	Male	94	49	177
	Female	77	43	133
14-16 yrs [€]	Male	116	80	175
	Female	82	61	116
17-18 yrs [*]	Male	118	77	171
	Female	80	49	128
19-29 yrs [*]	Male	120	77	197
	Female	85	49	150
30-49 yrs [*]	Male	115	67	203
	Female	83	54	138
50-69 yrs [*]	Male	105	62	175
	Female	80	55	124
70 yrs & above [*]	Male	95	59	145
	Female	76	55	107

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.9 – Estimated dietary intakes of potassium at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Potassium Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	1,040	n/a [∞]	2,080
2-3 yrs [€]	Male	2,400	1,780	3,150
	Female	2,240	1,600	3,010
4-8 yrs [€]	Male	2,570	1,790	3,440
	Female	2,310	1,620	3,110
9-13 yrs [€]	Male	2,930	1,920	4,300
	Female	2,520	1,750	3,670
14-16 yrs [€]	Male	3,690	2,450	5,090
	Female	2,740	1,900	3,810
17-18 yrs [*]	Male	4,360	3,060	6,380
	Female	3,010	1,770	4,410
19-29 yrs [*]	Male	4,440	3,060	6,280
	Female	3,190	1,870	5,040
30-49 yrs [*]	Male	4,340	2,680	6,440
	Female	3,330	1,980	4,990
50-69 yrs [*]	Male	4,120	2,440	6,140
	Female	3,250	2,050	4,870
70 yrs & above [*]	Male	3,610	2,220	5,200
	Female	2,960	1,870	4,220

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.10 – Estimated dietary intakes of selenium at the mean, 5th and 95th percentile (µg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Selenium Intake (µg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	38	n/a [∞]	76
2-3 yrs [€]	Male	87	63	124
	Female	82	62	114
4-8 yrs [€]	Male	98	68	146
	Female	87	63	120
9-13 yrs [€]	Male	113	74	178
	Female	94	67	136
14-16 yrs [€]	Male	150	109	204
	Female	101	76	142
17-18 yrs [*]	Male	167	108	249
	Female	108	63	197
19-29 yrs [*]	Male	171	110	266
	Female	111	65	183
30-49 yrs [*]	Male	155	103	232
	Female	106	74	157
50-69 yrs [*]	Male	143	100	215
	Female	103	77	147
70 yrs & above [*]	Male	130	96	184
	Female	97	75	131

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Table A19.11 – Estimated dietary intakes of zinc at the mean, 5th and 95th percentile (mg/day), derived using mean analytical concentrations

Age Group	Gender	Estimated Consumer Dietary Zinc Intake (mg/day) [^]		
		Mean	5 th Percentile	95 th Percentile
9 months [ⓧ]	All	5.2	n/a [∞]	10.3
2-3 yrs [€]	Male	7.6	6.1	9.2
	Female	6.9	5.4	8.7
4-8 yrs [€]	Male	8.4	6.9	9.9
	Female	7.2	6.0	8.3
9-13 yrs [€]	Male	9.5	7.4	10.8
	Female	7.9	6.6	9.0
14-16 yrs [€]	Male	12.9	9.6	15.5
	Female	8.3	6.2	9.8
17-18 yrs [*]	Male	14.8	9.8	22.1
	Female	9.4	5.6	17.9
19-29 yrs [*]	Male	14.8	9.1	23.4
	Female	9.4	5.5	15.5
30-49 yrs [*]	Male	13.2	8.6	20.2
	Female	8.7	5.8	13.1
50-69 yrs [*]	Male	11.9	8.2	17.7
	Female	8.3	5.8	12.5
70 yrs & above [*]	Male	11.0	8.1	15.6
	Female	7.8	5.7	11.3

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[ⓧ] derived using a model diet

^{*} derived using the Australian 1995 National Nutrition Survey

[∞] 5th Percentile could not be calculated

Appendix 20: Major food contributors to agricultural and veterinary chemical dietary exposures, derived using mean concentrations

Table A20.1 – Major contributors to 2, 4-D dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Citrus fruits and kumquats	100	100	100	100	100

[⌘] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.2 – Major contributors to 2-phenylphenol dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Mushrooms	100	100	100	100	100

[⌘] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.3 – Major contributors to aldicarb dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Pizzas (excluding seafood)	83	75	71	73	64
Hamburgers (all meat types)	17	25	29	27	36

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.4 – Major contributors to allethrin dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Sausages and frankfurts	78	84	81	78	71
Mushrooms	22	16	19	22	29

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.5 – Major contributors to azoxystrobin dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Stalk and stem vegetables	100	100	100	100	100

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.6 – Major contributors to bifenthrin dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Stone fruits (smooth skinned) and figs	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.7 – Major contributors to boscalid dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Margarines and margarine spreads	88	85	80	73	81
Leafy vegetables and herbs	6	8	13	19	11
Fresh beans and bean sprouts	6	7	7	8	8

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.8 – Major contributors to captan dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	53	55	66	67	25
Berries and jams	45	44	32	31	17
Red/rose wines, sherry, port and brandy	0	<5	<5	<5	14
White wines, wine coolers, rice and ginger wines	0	<5	<5	<5	43
All other foods	<5	<5	<5	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.9 – Major contributors to carbaryl dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Tropical fruits (rough or furry skin, except pineapples and jackfruit)	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.10 – Major contributors to carbendazim dietary exposures

Food Group	% Contribution				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	83	85	86	82	69
Fruit juices and ciders	8	8	9	12	8

White wines, wine coolers, rice and ginger wines	0	<5	<5	<5	8
Red/rose wines, sherry, port and brandy	0	<5	<5	<5	7
Yoghurt (except frozen) and dairy desserts (except ice cream)	7	<5	<5	<5	<5
All other foods	<5	7	5	6	8

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.11 – Major contributors to chlorpropham dietary exposures

Food Group	Major Contributors (%)				
	9 months⌘	2-5 yrs€	6-12 yrs€	13-16 yrs€	17 yrs & above*
Savoury snacks	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.12 – Major contributors to chlorothalonil dietary exposures

Food Group	Major Contributors (%)				
	9 months⌘	2-5 yrs€	6-12 yrs€	13-16 yrs€	17 yrs & above*
Leafy vegetables and herbs	93	94	97	98	98
Cucumbers and chokos	7	6	<5	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.13 – Major contributors to chlorpyrifos dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	100	99	99	98	98
All other foods	<5	<5	<5	<5	<5

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.14 – Major contributors to chlorpyrifos-methyl dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
White breads (including high-fibre white)	43	47	50	48	46
Multigrain, wholemeal and rye breads	37	33	21	18	29
Savoury pastries (containing meat)	5	6	9	11	10
Savoury biscuits and crackers	6	6	<5	<5	<5
Fancy breads, crumpets and English muffins	6	5	5	6	<5
Pizzas (excluding seafood)	<5	3	7	10	<5
All other foods	<5	<5	<5	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.15 – Major contributors to p,p dicofol dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Capsicums, chillies and spices	59	61	80	87	87
Berries and jams	41	39	20	13	13

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.16 – Major contributors to dieldrin dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Pumpkins, squash, marrows and zucchini	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.17 – Major contributors to dimethoate dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Capsicums, chillies and spices	38	38	48	52	48
Leafy vegetables and herbs	12	15	25	33	32
Grapes	22	19	12	6	7
Berries and jams	27	25	13	8	7
Stone fruits (smooth skinned) and figs	<5	<5	<5	<5	5

Gray shading indicates that the food is not a major contributor for the age group

[⌘] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.18 – Major contributors to diphenylamine dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	100	100	100	100	100

[⌘] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.19 – Major contributors to dithiocarbamates dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	66	68	64	60	37
Broccoli and broccoflower	19	20	21	21	32
Cabbages, Brussels sprouts and kohlrabi	<5	<5	<5	7	13
Cauliflower	<5	<5	<5	<5	8
Stalk and stem vegetables	<5	<5	<5	<5	7
All other foods	5	5	<5	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.20 – Major contributors to endosulfan dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Tomatoes/ eggplant/ pepino (raw or sun-dried)	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.21 – Major contributors to fenbutatin oxide dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Savoury sauces (excluding tomato)	36	38	64	79	68
Berries and jams	64	62	36	21	32

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.22 – Major contributors to fenitrothion dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Sweet/ plain/ filled biscuits	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.23 – Major contributors to glyphosate dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Multigrain, wholemeal and rye breads	100	100	100	100	100

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.24 – Major contributors to guazatine dietary exposures

Food Group	Major Contributors (%)				
	9 months*	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above*
Stalk and stem vegetables	100	100	100	100	100

* derived using a model diet

€ derived using the Australian 2007 Children’s National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.25 – Major contributors to haloxyfop dietary exposures

Food Group	Major Contributors (%)				
	9 months*	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above*
Pineapple and jackfruit	100	100	100	100	100

* derived using a model diet

€ derived using the Australian 2007 Children’s National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.26 – Major contributors to imazalil dietary exposures

Food Group	Major Contributors (%)				
	9 months*	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above*
Citrus fruits and kumquats	100	100	100	100	100

* derived using a model diet

€ derived using the Australian 2007 Children’s National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.27 – Major contributors to imidacloprid dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Leafy vegetables and herbs	91	93	94	95	95
Capsicums, chillies and spices	9	7	6	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.28 – Major contributors to iodosulfuron–methyl dietary exposures

Food Group	Major Contributors (%)				
	9 months [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Sweet/ plain/ filled biscuits	82	80	69	54	70
Savoury sauces (excluding tomato)	18	20	31	46	30

⌘ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.29 – Major contributors to iprodione dietary exposures

Food Group	Major Contributors (%)				
	9 months*	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above*
Apples and quinces	93	93	94	95	85
Stone fruits (smooth skinned) and figs	<5	<5	<5	<5	9
All other foods	6	6	<5	<5	6

Gray shading indicates that the food is not a major contributor for the age group

* derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.30 – Major contributors to methamidophos dietary exposures

Food Group	Major Contributors (%)				
	9 months*	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above*
Capsicums, chillies and spices	100	100	100	100	100

* derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.31 – Major contributors to methomyl dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Berries and jams	82	80	64	51	53
Leafy vegetables and herbs	<5	<5	10	17	19
Cucumbers and chokos	6	6	9	9	13
Fresh beans and bean sprouts	<5	<5	<5	6	10
Poultry (skinless)	7	7	13	17	6

Gray shading indicates that the food is not a major contributor for the age group

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.32 – Major contributors to myclobutanil dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Berries and jams	100	100	100	100	100

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.33 – Major contributors to nicarbazin dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Poultry (excluding skinless)	15	26	31	32	59
Poultry (skinless)	83	72	67	67	36
All other foods	<5	<5	<5	<5	5

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.34 – Major contributors to omethoate dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Capsicums, chillies and spices	100	100	100	100	100

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.35 – Major contributors to permethrin dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Leafy vegetables and herbs	100	100	100	100	100

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.36 – Major contributors to piperonyl butoxide dietary exposures

Food Group	Major Contributors (%)				
	9 months [✕]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Flours and single grains cereals	66	64	65	63	53
White breads (including high-fibre white)	9	11	13	14	15
Multigrain, wholemeal and rye breads	10	9	6	6	12
Sweet/ plain/ filled biscuits	6	5	<5	<5	5
All other foods	9	10	11	13	15

Gray shading indicates that the food is not a major contributor for the age group

✕ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.37 – Major contributors to pirimiphos–methyl dietary exposures

Food Group	Major Contributors (%)				
	9 months [✕]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Multigrain, wholemeal and rye breads	74	76	72	75	84
Savoury biscuits and crackers	18	19	24	18	12
Avocadoes and olives	7	6	<5	8	<5

Gray shading indicates that the food is not a major contributor for the age group

✕ derived using a model diet

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

* derived using the Australian 1995 National Nutrition Survey

Table A20.38 – Major contributors to prochloraz dietary exposures

Food Group	Major Contributors (%)				
	9 months [✖]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Leafy vegetables and herbs	100	100	100	100	100

[✖] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.39 – Major contributors to procymidone dietary exposures

Food Group	Major Contributors (%)			
	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Breakfast cereals with mixed grains/ fruits/ nuts	100	100	100	100

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Table A20.40 – Major contributors to propargite dietary exposures

Food Group	Major Contributors (%)				
	9 months [✖]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	93	95	96	96	91
Stone fruits (smooth skinned) and figs	<5	<5	<5	<5	6
Yoghurt (except frozen) and dairy desserts (except ice cream)	7	<5	<5	<5	<5

Gray shading indicates that the food is not a major contributor for the age group

[✖] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.41 – Major contributors to pyrimethanil dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Berries and jams	95	95	94	95	94
Grapes	<5	<5	6	<5	6

Gray shading indicates that the food is not a major contributor for the age group

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.42 – Major contributors to spinosad dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Leafy vegetables and herbs	100	100	100	100	100

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.43 – Major contributors to tebufenpyrad dietary exposures

Food Group	Major Contributors (%)				
	9 months [‡]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Apples and quinces	99	99	98	98	89
Stone fruits (smooth skinned) and figs	<5	<5	<5	<5	11

Gray shading indicates that the food is not a major contributor for the age group

[‡] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Table A20.44 – Major contributors to triclopyr dietary exposures

Food Group	Major Contributors (%)				
	9 months [ⓧ]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Flours and single grains cereals	100	100	100	100	100

[ⓧ] derived using a model diet

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

^{*} derived using the Australian 1995 National Nutrition Survey

Appendix 21: Major food contributors to contaminants dietary exposures, derived using median concentrations

Table A21.1 – Major contributors to estimated aluminium dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Cakes, muffins and puddings	19	35	38	32	23
Sausages and frankfurts	<5	7	6	6	<5
White breads (including high-fibre white)	<5	7	8	8	<5
Multigrain, wholemeal and rye breads	<5	6	<5	<5	<5
Seafood (crumbed)	5	6	<5	<5	<5
Teas	0	<5	<5	<5	35
Infant formulas	29	<5	0	0	<5
All other foods	33	38	39	43	28

[⌘] derived using a model diet

^{*} percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.2 – Major contributors to estimated aluminium dietary exposures, derived using mean concentrations

Food Group	Major Contributors (%) ^γ				
	9 months [ⓧ]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Cakes, muffins and puddings	15	29	30	24	21
Fancy breads, crumpets and English muffins	17	20	22	24	14
Sausages and frankfurts	5	7	6	6	<5
White breads (including high-fibre white)	<5	<5	5	5	<5
Teas	0	<5	<5	<5	27
Infant formulas	24	<5	0	0	<5
All other foods	37	38	35	37	30

[ⓧ] derived using a model diet

^γ percentage contributions were calculated using the 'nd=0' scenario, for mean analytical concentrations

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.3 – Major contributors to estimated arsenic dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Fish (uncrumbed/ unbattered or canned)	35	41	34	32	32
Seafood (crumbed)	15	15	7	7	7
Rice and rice products	13	13	13	13	11
Seafood (battered)	7	7	20	23	22
Molluscs and crustacea	<5	<5	6	<5	9
Infant cereals	7	0	0	0	<5
All other foods	22	21	20	21	20

⌘ derived using a model diet

* percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.4 – Major contributors to estimated cadmium dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Root vegetables (starchy)	21	22	24	26	27
Savoury snacks	7	11	17	16	6
Multigrain, wholemeal and rye breads	7	7	<5	<5	7
Pasta, noodles (except rice) and couscous	8	7	6	7	<5
White breads (including high-fibre white)	<5	5	5	5	6
Root vegetables (non-starchy)	<5	<5	<5	<5	6
Berries and jams	6	5	<5	<5	<5
All other foods	43	38	37	37	42

⌘ derived using a model diet

* percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.5 – Major contributors to estimated lead dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Water (non-bottled)	16	14	14	14	10
Savoury pastries (containing meat)	<5	6	9	11	7
Coffee (from instant) and cereal-based beverages	0	<5	<5	<5	6
Coffee (from ground)	0	<5	<5	<5	15
Multigrain, wholemeal and rye breads	<5	5	<5	<5	<5
White breads (including high-fibre white)	<5	8	8	8	5
Infant formulas	28	<5	0	0	<5
All other foods	46	67	65	62	53

⌘ derived using a model diet

* percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.6 – Major contributors to estimated inorganic mercury dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
White breads (including high-fibre white)	6	11	13	13	12
Water (non-bottled)	11	10	10	10	10
Apples and quinces	<5	7	6	<5	<5
Multigrain, wholemeal and rye breads	<5	5	<5	<5	<5
Root vegetables (starchy)	<5	<5	6	6	6
Fancy breads, crumpets and English muffins	<5	<5	<5	5	<5
Infant formulas	22	<5	0	0	<5
All other foods	47	58	58	58	60

⌘ derived using a model diet

* percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.7 – Major contributors to estimated methylmercury dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Fish (uncrumbed/ unbattered or canned)	49	53	42	39	38
Seafood (crumbed)	34	30	15	14	13
Seafood (battered)	16	14	38	44	41
Molluscs and crustacea	<5	<5	5	<5	8

⌘ derived using a model diet

* percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

* derived using the Australian 1995 National Nutrition Survey

€ derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Table A21.8 – Major contributors to estimated strontium dietary exposures, derived using median concentrations

Food Group	Major Contributors (%) [*]				
	9 month [⌘]	2-5 yrs [€]	6-12 yrs [€]	13-16 yrs [€]	17 yrs & above [*]
Milks and cream	0	15	12	11	7
White breads (including high-fibre white)	<5	8	9	9	7
Flours and single grain cereals	5	7	7	7	<5
Cheeses	<5	7	6	6	<5
Multigrain, wholemeal and rye breads	<5	6	<5	<5	5
Coffee (from instant) and cereal-based beverages	0	<5	<5	<5	10
Citrus fruits and kumquats	<5	5	5	<5	<5
Infant formulas	36	<5	0	0	<5
All other foods	41	52	56	58	59

[⌘] derived using a model diet

^{*} percentage contributions were calculated using the 'nd=0' scenario, for median analytical concentrations

^{*} derived using the Australian 1995 National Nutrition Survey

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 and 2 average)

Note: gray shading indicates that the food is not a major contributor for the age group

Appendix 22: Major food contributors to nutrient dietary intakes, derived using mean concentrations

Table A22.1 – Major contributors to calcium dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary calcium intakes (%) [^]								
	9 months [⌘]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	48	50	40	40	43	37	40	34
Cheeses	8	17	16	18	17	14	17	16	20
Yoghurt (except frozen) and dairy desserts (except ice cream)	5	9	8	6	6	<5	<5	<5	<5
White breads (including high-fibre white)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	<5	<5	<5
Frozen dairy based desserts	<5	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	73	<5	<5	<5	<5	0	0	0	0
All other foods	10	19	20	26	26	29	30	31	31

[^]does not include the use of supplements

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[⌘] derived using a model diet

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.2 – Major contributors to calcium dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary calcium intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	40	34	35	35	32	33	35	35	39	39
Cheeses	16	19	17	19	18	17	14	15	11	13
Yoghurt (except frozen) and dairy desserts (except ice cream)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
White breads (including high-fibre white)	5	6	6	<5	6	<5	5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	<5	<5	5	6
Frozen dairy based desserts	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	30	32	35	34	37	36	37	35	35	33

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.3 – Major contributors to chromium dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary chromium intakes (%) [^]								
	9 months [✖]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	14	14	9	9	9	8	8	7
White breads (including high-fibre white)	5	8	7	10	10	10	10	10	9
Multigrain, wholemeal and rye breads	<5	8	7	6	6	<5	<5	<5	5
Flours and single grains cereals	<5	6	6	6	5	6	<5	6	<5
Sugars, confectionery, syrups and icings	<5	<5	<5	<5	<5	<5	<5	<5	<5
Beef, veal and venison	<5	<5	<5	<5	<5	<5	<5	<5	<5
Root vegetables (starchy)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-alcoholic beverages (except milk, waters and juices)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	0	<5	0	<5	0	<5	<5	<5	<5
Teas	0	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	41	<5	<5	<5	<5	0	0	0	0
All other foods	40	57	56	58	59	57	59	56	60

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✖] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.4 – Major contributors to chromium dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary chromium intakes (%) [^]									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	8	6	6	7	5	6	6	6	6	7
White breads (including high-fibre white)	10	10	11	9	10	9	8	7	7	7
Multigrain, wholemeal and rye breads	<5	5	<5	<5	<5	6	8	8	9	11
Flours and single grains cereals	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sugars, confectionery, syrups and icings	6	5	<5	<5	<5	<5	<5	<5	<5	<5
Beef, veal and venison	<5	<5	<5	<5	5	<5	<5	<5	<5	<5
Root vegetables (starchy)	6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-alcoholic beverages (except milk, waters and juices)	6	6	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	<5	<5	<5	<5	<5	5	<5	<5	<5	<5
Teas	<5	<5	<5	<5	<5	<5	<5	6	5	7
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	52	54	56	56	55	55	53	53	51	50

* derived using the Australian 1995 National Nutrition Survey

[^]does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.5 – Major contributors to cobalt dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary cobalt intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	12	13	8	8	8	6	7	6
Flours and single grains cereals	5	8	9	9	8	8	6	8	6
Multigrain, wholemeal and rye breads	5	8	8	6	6	<5	<5	<5	<5
Root vegetables (starchy)	<5	7	7	7	8	10	10	10	11
White breads (including high-fibre white)	<5	7	6	8	8	7	7	8	6
Chocolates, cocoa and fudge	<5	<5	<5	7	8	7	7	5	7
Savoury snacks	<5	<5	<5	8	7	9	8	8	9
Breakfast cereals with mixed grains/ fruits/ nuts	0	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	0	<5	0	<5	0	<5	<5	<5	<5
Teas	0	<5	<5	<5	<5	<5	<5	<5	<5
Infant cereals	9	0	0	0	0	0	0	0	0
Infant formulas	38	<5	<5	<5	<5	0	0	0	0
All other foods	30	46	46	43	44	43	46	44	45

[€] derived using the Australian 2007 Children’s National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.6 – Major contributors to cobalt dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary cobalt intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Flours and single grains cereals	<5	<5	<5	<5	<5	<5	<5	<5	5	5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	6	6	8	8
Root vegetables (starchy)	16	11	10	10	8	8	10	9	11	11
White breads (including high-fibre white)	7	7	7	6	6	<5	<5	<5	<5	<5
Chocolates, cocoa and fudge	<5	6	<5	<5	<5	<5	<5	<5	<5	<5
Savoury snacks	6	7	<5	<5	<5	<5	<5	<5	<5	<5
Breakfast cereals with mixed grains/ fruits/ nuts	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	7	9	17	18	27	28	26	26	19	20
Teas	<5	<5	<5	<5	<5	<5	<5	7	7	8
Infant cereals	0	0	0	<5	0	0	0	0	<5	0
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	40	44	43	41	39	37	37	36	38	35

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.7 – Major contributors to copper dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary copper intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Water (non-bottled)	15	22	22	23	23	25	26	23	26
White breads (including high-fibre white)	<5	5	<5	7	7	6	6	7	5
Flours and single grains cereals	<5	7	7	7	6	7	5	7	<5
Breakfast cereals with mixed grains/ fruits/ nuts	0	<5	<5	<5	<5	<5	<5	<5	<5
Pasta, noodles (except rice) and couscous	<5	6	7	6	6	6	6	6	6
Root vegetables (starchy)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	6	6	<5	<5	<5	<5	<5	<5
Infant formulas	55	<5	<5	<5	<5	0	0	0	0
All other foods	20	48	48	47	47	46	48	47	47

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.8 – Major contributors to copper dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary copper intakes (%) [^]									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Water (non-bottled)	22	26	23	26	20	24	17	23	18	23
White breads (including high-fibre white)	7	7	7	5	7	5	6	<5	5	<5
Flours and single grains cereals	<5	<5	<5	<5	<5	<5	<5	<5	6	5
Breakfast cereals with mixed grains/ fruits/ nuts	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Pasta, noodles (except rice) and couscous	6	5	<5	<5	<5	<5	<5	<5	<5	<5
Root vegetables (starchy)	6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	7	7	8	8
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	46	48	52	51	55	54	56	54	55	52

* derived using the Australian 1995 National Nutrition Survey

[^]does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.9 – Major contributors to fluoride dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary fluoride intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Water (non-bottled)	37	33	33	34	33	34	35	32	36
Apples and quinces	<5	6	6	<5	5	<5	<5	<5	<5
Fruit juices and ciders	<5	<5	5	5	<5	<5	<5	<5	<5
Beef, veal and venison	<5	<5	<5	<5	<5	<5	<5	<5	<5
Non-alcoholic beverages (except milk, waters and juices)	<5	<5	<5	<5	<5	<5	<5	6	<5
Teas [◆]	0	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	20	<5	<5	<5	<5	0	0	0	0
All other foods	35	52	51	50	52	49	46	49	45

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

[◆] includes the water used to make the teas

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.10 – Major contributors to fluoride dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary fluoride intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Water (non-bottled)	30	32	30	32	25	28	20	25	19	23
Apples and quinces	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Fruit juices and ciders	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Beef, veal and venison	6	<5	5	<5	6	<5	<5	<5	<5	<5
Non-alcoholic beverages (except milk, waters and juices)	9	7	6	<5	<5	<5	<5	<5	<5	<5
Teas	<5	6	5	15	14	24	26	31	33	35
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	49	43	50	40	48	39	45	36	41	35

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.11 – Major contributors to iron dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary iron intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Flours and single grains cereals	7	29	30	28	26	26	22	26	21
Breakfast cereals with mixed grains/ fruits/ nuts	0	9	9	12	12	14	10	13	12
Beef, veal and venison	<5	6	8	7	6	8	9	10	7
White breads (including high-fibre white)	<5	6	5	7	7	6	7	6	6
Multigrain, wholemeal and rye breads	<5	7	6	<5	5	<5	<5	<5	<5
Infant cereals	9	0	0	0	0	0	0	0	0
Infant formulas	68	<5	<5	<5	<5	0	0	0	0
All other foods	11	43	42	42	45	43	47	42	49

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^]does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.12 – Major contributors to iron dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary iron intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Flours and single grains cereals	18	13	15	16	17	16	18	19	22	23
Breakfast cereals with mixed grains/ fruits/ nuts	18	12	13	12	9	9	8	9	8	9
Beef, veal and venison	13	13	13	11	14	10	12	10	11	9
White breads (including high-fibre white)	7	8	7	6	7	6	6	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	5	<5	<5	<5	6	7	8	8	9
Infant cereals	0	0	0	<5	0	0	0	0	<5	0
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	43	50	49	51	49	53	49	50	46	46

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.13 – Major contributors to manganese dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary manganese intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Flours and single grains cereals	15	19	19	19	17	19	15	19	14
Multigrain, wholemeal and rye breads	11	13	12	10	10	6	8	6	8
White breads (including high-fibre white)	9	11	9	13	13	12	13	13	11
Breakfast cereals with mixed grains/ fruits/ nuts	0	7	7	10	10	12	9	12	9
Pasta, noodles (except rice) and couscous	6	7	7	7	7	7	7	7	8
Root vegetables (starchy)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Teas	0	<5	<5	<5	<5	<5	<5	<5	<5
Bananas and plantains	5	5	6	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	0	<5	0	<5	0	<5	<5	<5	<5
Oats	10	<5	<5	<5	<5	<5	<5	<5	<5
Infant cereals	7	0	0	0	0	0	0	0	0
Infant formulas	8	<5	<5	<5	<5	0	0	0	0
All other foods	28	33	34	34	35	36	40	37	39

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.14 – Major contributors to manganese dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary manganese intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Flours and single grains cereals	13	8	10	9	10	8	10	9	11	10
Multigrain, wholemeal and rye breads	5	9	6	6	7	8	11	10	11	12
White breads (including high-fibre white)	14	14	14	10	12	9	8	6	7	6
Breakfast cereals with mixed grains/ fruits/ nuts	17	9	11	8	7	6	5	5	<5	<5
Pasta, noodles (except rice) and couscous	7	6	<5	<5	<5	<5	<5	<5	<5	<5
Root vegetables (starchy)	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Teas	<5	6	5	14	12	21	21	27	26	29
Bananas and plantains	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from instant) and cereal-based beverages	<5	<5	<5	<5	7	7	6	5	<5	<5
Oats	<5	<5	<5	<5	<5	<5	<5	<5	7	5
Infant cereals	0	0	0	<5	0	0	0	0	<5	0
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	34	39	38	36	35	33	28	27	24	22

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.15 – Major contributors to molybdenum dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary molybdenum intakes (%)^								
	9 months [⌘]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Soy beverages, soy beans and tofu	0	16	10	<5	8	<5	<5	<5	<5
Milks and cream	0	14	15	11	11	11	9	10	8
Flours and single grains cereals	6	8	9	10	9	10	8	10	7
Multigrain, wholemeal and rye breads	6	8	8	7	7	<5	6	<5	6
Rice and rice products	8	7	8	9	8	11	11	11	11
White breads (including high-fibre white)	5	7	6	10	9	9	9	9	8
Peanuts and peanut butter	0	<5	<5	<5	<5	<5	<5	<5	<5
Root vegetables (starchy)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Fresh beans and bean sprouts	<5	<5	<5	<5	<5	<5	<5	<5	<5
Infant cereals	9	0	0	0	0	0	0	0	0
Infant formulas	33	<5	<5	<5	<5	0	0	0	0
All other foods	30	35	37	43	41	42	43	41	44

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[⌘] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.16 – Major contributors to molybdenum dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary molybdenum intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Soy beverages, soy beans and tofu	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Milks and cream	10	8	8	8	6	7	7	8	8	9
Flours and single grains cereals	7	<5	6	5	6	5	7	7	8	8
Multigrain, wholemeal and rye breads	<5	8	<5	5	6	7	10	11	12	14
Rice and rice products	9	11	13	15	13	13	9	8	6	5
White breads (including high-fibre white)	11	11	11	9	10	8	8	7	7	7
Peanuts and peanut butter	<5	<5	<5	<5	6	<5	<5	<5	<5	<5
Root vegetables (starchy)	6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Fresh beans and bean sprouts	<5	<5	<5	<5	<5	<5	<5	5	5	6
Infant cereals	0	0	0	<5	0	0	0	0	<5	0
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	46	45	45	44	42	43	42	43	43	40

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.17 – Major contributors to potassium dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary potassium intakes (%) [^]								
	9 months [✖]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	25	25	18	18	18	15	17	14
Bananas and plantains	5	7	7	5	6	<5	<5	<5	<5
Root vegetables (starchy)	<5	5	<5	6	7	8	8	9	9
Fruit juices and ciders	<5	<5	<5	6	<5	<5	5	<5	6
Savoury snacks	<5	<5	<5	5	<5	7	6	6	6
Beef, veal and venison	<5	<5	<5	<5	<5	<5	<5	6	<5
Coffee (from instant) and cereal-based beverages	0	<5	0	<5	0	<5	<5	<5	<5
Poultry (excluding skinless)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Coffee (from ground)	0	<5	<5	0	<5	<5	<5	<5	<5
Infant formulas	49	<5	<5	<5	<5	0	0	0	0
All other foods	35	52	51	53	54	51	54	52	56

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✖] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.18 – Major contributors to potassium dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary potassium intakes (%)^									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	15	12	12	12	10	10	10	11	12	12
Bananas and plantains	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Root vegetables (starchy)	15	10	10	9	8	7	10	9	10	10
Fruit juices and ciders	<5	6	<5	<5	<5	<5	<5	<5	<5	<5
Savoury snacks	<5	5	<5	<5	<5	<5	<5	<5	<5	<5
Beef, veal and venison	7	6	6	5	7	<5	6	<5	6	<5
Coffee (from instant) and cereal-based beverages	<5	<5	7	8	12	13	12	12	8	8
Poultry (excluding skinless)	<5	<5	5	<5	<5	<5	<5	<5	<5	<5
Coffee (from ground)	<5	<5	<5	<5	6	7	<5	5	<5	<5
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	47	49	49	48	48	48	51	51	53	52

* derived using the Australian 1995 National Nutrition Survey

^does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.19 – Major contributors to selenium dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary selenium intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	24	24	16	16	16	13	14	12
White breads (including high-fibre white)	<5	8	7	9	10	9	9	9	8
Poultry (excluding skinless)	<5	<5	<5	<5	5	6	6	6	<5
Beef, veal and venison	<5	5	6	7	5	7	8	8	6
Fish (uncrumbed/ unbattered or canned)	<5	6	7	7	6	6	7	<5	6
Pork (except bacon) and deli meats (except frankfurts and poultry-based)	<5	5	<5	6	7	<5	<5	5	6
Eggs	<5	<5	<5	<5	<5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	7	6	5	5	<5	<5	<5	<5
Poultry (skinless)	<5	<5	5	5	<5	6	7	8	8
Infant formulas	51	<5	<5	<5	<5	0	0	0	0
All other foods	23	35	34	37	38	39	38	39	40

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.20 – Major contributors to selenium dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary selenium intakes (%) [^]									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	13	11	10	12	9	11	10	12	11	13
White breads (including high-fibre white)	9	10	10	8	9	8	7	6	7	7
Poultry (excluding skinless)	8	9	10	10	7	8	6	6	7	6
Beef, veal and venison	12	10	10	9	12	8	10	8	10	8
Fish (uncrumbed/ unbattered or canned)	5	9	<5	7	9	10	11	12	9	11
Pork (except bacon) and deli meats (except frankfurts and poultry-based)	6	<5	6	<5	6	5	7	6	7	<5
Eggs	<5	<5	<5	<5	<5	5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	5	7	7	8	9
Poultry (skinless)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	38	36	39	39	38	38	35	35	34	33

* derived using the Australian 1995 National Nutrition Survey

[^]does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.21 – Major contributors to zinc dietary intakes for consumers aged 9 months – 16 years

Food Group	Contribution to dietary zinc intakes (%) [^]								
	9 months [✕]	2-3 yrs [€]		4-8 yrs [€]		9-13 yrs [€]		14-16 yrs [€]	
	All	M	F	M	F	M	F	M	F
Milks and cream	0	18	18	12	13	12	10	10	10
Beef, veal and venison	6	13	16	17	14	18	20	21	16
Flours and single grains cereals	<5	12	12	12	11	11	9	11	9
Cheeses	<5	10	9	8	8	6	7	6	9
Poultry (excluding skinless)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lamb, mutton, kangaroo and rabbit	<5	<5	<5	<5	<5	<5	<5	<5	<5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	<5	<5	<5
Infant formulas	67	<5	<5	<5	<5	0	0	0	0
All other foods	17	40	39	44	46	45	45	43	49

[€] derived using the Australian 2007 Children's National Nutrition and Physical Activity Survey (Day 1 adjusted nutrient intake)

[✕] derived using a model diet

[^] does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group

Table A22.22 – Major contributors to zinc dietary intakes for consumers aged 17 years and above

Food Group	Contribution to dietary zinc intakes (%) [^]									
	17-18 yrs*		19-29 yrs*		30-49 yrs*		50-69 yrs*		70 yrs & above*	
	M	F	M	F	M	F	M	F	M	F
Milks and cream	10	8	8	9	7	8	8	9	9	10
Beef, veal and venison	27	26	26	23	29	22	27	22	25	21
Flours and single grains cereals	7	<5	6	6	6	7	7	8	10	10
Cheeses	6	7	6	7	6	7	<5	6	<5	5
Poultry (excluding skinless)	<5	<5	5	6	<5	<5	<5	<5	<5	<5
Lamb, mutton, kangaroo and rabbit	<5	<5	<5	<5	<5	<5	5	5	5	5
Multigrain, wholemeal and rye breads	<5	<5	<5	<5	<5	<5	<5	<5	<5	6
Infant formulas	0	0	0	0	0	0	0	<5	0	0
All other foods	44	43	44	44	42	45	41	41	39	39

* derived using the Australian 1995 National Nutrition Survey

[^]does not include the use of supplements

Note: gray shading indicates that the food is not a major contributor for the age-gender group