



2009 New Zealand Total Diet Study: Analytical Results Q4

NZFSA Information Report

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1 Introduction

This report presents the analytical results from the fourth of four quarterly sampling periods to be carried out during the 2009 New Zealand Total Diet Study (NZTDS).

Background to the current study is provided in Appendix 1. The Food List is detailed in Appendix 2.

2 Sampling methods

2.1 Quarter 4 (Q4) sampling

The sampling carried out in Q4 was for national foods (explained and listed in Appendix 1). Q4 sampling was carried out over six weeks, with different foods being sampled each week.

National food sampling is carried out in Christchurch.

Dates for Q4 sampling were between 30 October and 8 December 2009.

2.2 Retail outlets

Wherever possible, the purchasing of any particular food has been carried out over a range of retail outlets representing the buying habits of the majority of the community. This meant that the bulk of purchases were made at supermarkets, however, corner stores, delicatessens, butchers and green grocers have been included where appropriate.

2.3 Range of brands / use by dates / batch numbers

The brands to be purchased were suggested in the 2009 NZTDS procedures manual (Vannoort, 2009). These were based on data for the most commonly purchased brands. A range of use by dates or batch numbers within each brand were included to increase the range of products being sampled.

Where imported and domestic lines were available for a particular food, the purchasing officer selected a mixture. Imports which are boutique or specialised lines were avoided.

2.4 Sampling - national foods

These instructions applied to the sampling of national (N) foods for any one (seasonal) sampling. Each food will be sampled at two different times of year (seasons).

All national foods involved four purchases of an average of four units of four brands of each food. The four brands allowed a greater range of each product to be represented in the sampling.

This effectively resulted in a minimum of sixteen (16) samples of each food arriving at the food preparation laboratory. The four purchases from each brand were composited in all cases by the food preparation laboratory. For all foods, the different brands were analysed individually for all applicable analytes.

2.5 Sample preparation

As the primary purpose of the NZTDS is to estimate dietary exposure to chemical residues, contaminant elements and selected nutrients, foods are analysed on an 'as consumed' basis (i.e. banana, peeled; meat, cooked). Detailed procedures for sample preparation were specified in the procedures manual (Vannoort, 2009). All water used in food preparation was distilled.

The sample of Rasins/sultanas was also prepared with distilled water to facilitate a homogenous sample for analysis. This dilution factor has been reversed for the analysis results included in this report.

Sample preparation was carried out by the Institute of Environmental Science and Research (ESR) Food Safety Group, Christchurch Science Centre.

3 Analyte list

3.1 Elements

Eight elements are included for analysis in the 2009 NZTDS. The table below lists the elements, the analytical methodologies used and the foods which were analysed. It should be noted that Q4 involved analysis of national foods only and that for some elements not all foods are analysed (as indicated in the table below).

3.1.1 Elements analysed for in the 2009 NZTDS

Element	Method of analysis	Foods to be analysed
Arsenic (As)	ICP-MS	All
Cadmium (Cd)	ICP-MS	All
Iodine (I)	ICP-MS	All
Lead (Pb)	ICP-MS	All
Mercury (Hg)	ICP-MS	All, except grains and high fat foods
Methylmercury (MeHg)	SPME-GCMS	Only fish, shellfish and related products, infant formula
Selenium (Se)	ICP-MS	All, except fats & oils
Sodium (Na)	ICP-OES	All

ICP-MS = inductively-coupled plasma mass spectrometry

ICP-OES = inductively-coupled plasma optical emission spectrometry

SPME GCMS – Solid Phase Micro Extraction Gas Chromatography Mass Spectrometry

3.2 Agricultural compounds

Testing of foods in the 2009 NZTDS for residues of agricultural compounds is undertaken by way of two separate screens. A multi-residue (MR) screen of 240 compounds that includes organochlorine pesticides, organophosphorus pesticides, pyrethroids, fungicides, and a number of other agricultural compounds not included in these groups. A separate screen for eight dithiocarbamate compounds, analysed as carbon disulphide (CS₂).

3.2.1 Multi-residue screen in the 2009 NZTDS

All foods included in Q4 were analysed for agricultural compound residues by the multi-residue screen method.

Acephate	44'-DDE	Fludioxonil	Phenthoate
Acetochlor	44'-DDT	Fluometuron	Phorate
Acrinathrin	delta-BHC	Flusilazole	Phosalone
Alachlor	Deltamethrin	Flutriafol	Phosmet
Aldrin	Demeton-S-methyl	Fluvalinate	Phosphamidon
alpha-BHC	Diazinon	Folpet	Piperonyl-butoxide
Atrazine	Dichlobenil	Fonofos	Pirimicarb
Atrazine-desethyl	Dichlofenthion	Furalaxyl	Pirimiphos-methyl
Atrazine-desisopropyl	Dichlofluanid	Furathiocarb	Prochloraz
Azaconazole	Dichloran	gamma-BHC (Lindane)	Procymidone
Azinphos-methyl	Dichlorvos	Halfenprox	Profenofos
Azoxystrobin	Dicofol	Haloxypop-methyl	Prometryn
Benalaxyl	Dicrotophos	Heptachlor	Propachlor
Bendiocarb	Dieldrin	Heptachlor-epoxide	Propanil
Benodanil	Diemethomorph	Heptenophos	Propaphos
Benoxacor	Difenoconazole	Hexachlorobenzene	Propargite
beta-BHC	Diffenican	Hexaconazole	Propazine
Bifenox	Dimethenamid	Hexazinone	Propetamphos
Bifenthrin	Dimethoate	Hexythiazox	Propham
Bioresmethrin	Dimethylvinphos	Imazalil	Propiconazole
Bitertanol	Dinocap	Indoxacarb	Propoxur
Bromacil	Dioxabenzofos	Iodofenphos	Propyzamide
Bromophos-ethyl	Diphenamid	lprobenfos	Prothiofos
Bromopropylate	Diphenylamine	lprodione	Pyraclufos
Bupirimate	Disulfoton	Isazophos	Pyrazophos
Buprofezin	Diuron	Isofenphos	Pyrazoxyfen
Butachlor	Edifenphos	Isoproc carb	Pyrethrin
Butamifos	Endosulfan I	Kresoxim-methyl	Pyrifenox
Cadusafos	Endosulfan II	Leptophos	Pyrimethanil
Captafol	Endosulfan sulfate	Linuron	Pyriproxyfen
Captan	Endrin	Malathion	Quinalphos
Carbaryl	Endrin-aldehyde	Mepronil	Quintozene
Carbofenthion	Endrin-Ketone	Metalaxyl	Quizalofop-ethyl
Carbofuran	EPN	Methacrifos	Simazine
Carboxin	Epoxiconazole	Methamidophos	Simetryn
Chlorfenapyr	EPTC	Methidathion	Sulfentrazone
Chlorfenvinphos	Esfenvalerate	Methiocarb	Sulfotep
Chlorfluazuron	Esprocarb	Methoxychlor	Tebuconazole
Chlorobenzilate	Ethion	Metolachlor	Tebufenpyrad
Chlorothalonil	Ethofumesate	Metribuzin	Tefluthrin

Chlorpropham	Ethoprophos	Mevinphos	Terbacil
Chlorpyrifos	Ethoxyquin	Molinate	Terbufos
Chlorpyrifos-methyl	Etridiazole	Monocrotophos	Terbumeton
Chlorthal-dimethyl	Etrimfos	Myclobutanil	Terbuthylazine
Chlortoluron	Famphur	Naled	Terbuthylazine-desethyl
Chlozolate	Fenamiphos	Napropamide	Terbutryn
cis-Chlordane	Fenarimol	Nitrofen	Tetrachlorvinphos
Clomazone	Fenchlorphos	Nitrothal-isopropyl	Tetradifon
Coumaphos	Fenitrothion	Norflurazon	Thenylchlor
Cyanazine	Fenobucarb	Omethoate	Thiobencarb
Cyanophos	Fenoxaprop-ethyl	Oxadiazon	Thiometon
Cyfluthrin	Fenpiclonil	Oxadixyl	Tolclofos-methyl
Cyhalothrin	Fenpropathrin	Oxychlordane	Tolyfluanid
Cypermethrin	Fenpropimorph	Oxyfluorfen	trans-Chlordane
Cyproconazole	Fensulfothion	Paclbutrazol	Triadimefon
Cyprodinil	Fenthion	Parathion-ethyl	Tri-allate
24'-DDD	Fenvalerate	Parathion-methyl	Triazophos
24'-DDE	Flamprop-methyl	Penconazole	Trifloxystrobin
24'-DDT	Fluazifop-butyl	Pendimethalin	Trifluralin
44'-DDD	Flucythrinate	Permethrin	Vinclozolin

3.2.2 DTC screen in the 2009 NZTDS

The dithiocarbamate (DTC) fungicides require a separate screen and this analysis covers, but does not distinguish between:

Dithane	Mancozeb	Nabam	Zinab
Ferbam	Maneb	Thiram	Ziram

3.3 Analyses

All analyses (agricultural compounds, elements and moisture) have been carried out by R J Hill Laboratories, Hamilton, New Zealand.

For Q4 the agricultural compound screens were undertaken on a Gas Chromatography Triple Quadruple Mass Spectrometry detection system. The limit of reporting (LOR) for over 200 of the compounds has been improved. The analysis for Q3 was also undertaken by this method. It should be noted that the Q3 report indicated that three additional compounds had been included in the screen – this was incorrect the list of compounds is the same as for Q1 and Q2.

4 Analytical results

4.1 Analytical quality control

Trace analyses of a wide range of compounds in a variety of complex matrices is an exacting science. A range of quality control procedures were therefore employed to provide confidence in the methodology and the validity of results. R J Hill Laboratories is an internationally accredited laboratory with ISO/IEC 17025, as such they maintain a range of internal quality controls including analysing samples in duplicate, spiked recoveries, internal standardisation and the use of Internationally Certified Reference Materials (CRMs). Some samples are also submitted to the laboratory as 'blind' repeat samples i.e. the laboratory is not made aware of that feature of the sample. In addition all results are scrutinised by an independent expert and any results that indicate an unusual finding are re-analysed. Transcription errors are avoided as the test results are directly and electronically transferred to the NZFSA database from the Laboratory Information Management System (LIMS).

4.2 Elements

For the elements analysed, results are reported per analyte for all foods analysed in this quarter. Although not an element, methylmercury has been included separately in this section as it contributes directly to total mercury, and it will contribute towards more accurate exposure assessment.

All elemental results reported are on a 'foods as consumed' basis. Moisture contents of the foods have also been separately determined, but are not detailed in this report.

Elements are naturally occurring and ubiquitous in our environment. As such, if the concentration of a certain element in a food was 'not detected' it is highly likely that it is present, but at levels less than the limit of detection. In this report, 'not detected' results in the following tables are designated 'nd' and the associated limit of detection given at the foot of each table for each element, as they vary dependent on analyte and food matrix type (dry/fatty, fresh, liquid, water).

Where samples were 'not analysed' for a particular food/analyte combination, this is designated by 'na' in the table or the foods are listed in a separate table. This occurs primarily for total mercury and methylmercury analyses, and a few matrices for selenium. Samples were not analysed for these elements because there was little likelihood of the element being detected using the current analytical techniques.

4.2.1 Arsenic

4.2.1.1 Total Arsenic content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	0.0026	0.0015	0.0016	0.0075
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	0.001	nd	0.0052
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	0.014
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.017	0.0172	0.019	0.0285
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	0.003	nd	0.008	0.0051
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	0.0123	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	0.0035
Fish fingers	0.4958	0.8821	1.2651	0.942
Fish, canned	0.8168	0.384	0.7641	0.3432
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	0.0215	0.0139	0.0209	nd
Infant weaning food, custard/fruit dish	0.0119	0.0076	0.0068	0.0071
Infant weaning food, savoury dish	0.005	nd	nd	0.0028
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	0.0045	nd	Nd	0.0023
Oats, rolled	nd	nd	nd	0.0057
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	nd	nd	nd	nd
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	0.0271	0.0176	0.026	0.0268
Rice, white	0.0144	0.0249	0.0497	0.0347
Salad dressing	nd	0.0141	nd	nd
Snack bars	0.018	0.015	0.0187	0.0125
Snacks, flavoured	nd	nd	0.012	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	0.0024	0.0014	0.001	0.0012
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	0.0014	0.0018	0.0059	0.0036
Wine, still white	0.0018	0.0025	0.0099	0.0044
Yeast extract	0.1625	0.1297	0.1527	0.1246
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of detection for total Arsenic = 0.001 mg/kg (water or liquid) / 0.002 mg/kg (high moisture, solid samples) / 0.005 mg/kg (semi moist) / or 0.010 mg/kg (fatty, low moisture solid samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.2 Cadmium

4.2.2.1 Cadmium content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	0.0002	0.0002	0.0003	nd
Apricots, canned	0.0016	0.0027	0.0028	0.0018
Bananas	nd	nd	nd	0.0012
Beans, baked, canned	0.0027	0.0024	0.004	0.0031
Beans, frozen	0.0022	0.0007	0.004	0.0008
Beer	nd	0.0002	0.0006	nd
Beetroot, canned	0.0113	0.0083	0.0116	0.0104
Biscuits, chocolate	0.0126	0.0217	0.0286	0.0236
Biscuits, cracker	0.0098	0.0176	0.0184	0.0074
Biscuits, plain sweet	0.0093	0.0098	0.0129	0.0088
Bran flake cereal, mixed	0.0274	0.0046	0.0263	0.0154
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	0.0006	0.0005	0.0006	0.0006
Chocolate beverage	0.0047	0.005	0.0123	0.0011
Chocolate, plain milk	0.0385	0.0126	0.0855	0.0195
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	0.0008	0.0013	0.0007	0.0037
Cornflakes	nd	nd	0.0102	nd
Dairy dessert	0.0006	0.0007	0.0055	0.0058
Fish fingers	0.0163	0.0063	0.0045	0.0209
Fish, canned	0.0166	0.0025	0.0073	0.0042
Fruit Drink	nd	nd	nd	nd
Honey	nd	0.0029	nd	nd
Ice cream	nd	0.001	0.0038	0.0175
Infant and follow-on formula	nd	0.0002	nd	0.0004
Infant weaning food, cereal based	0.0035	0.0016	0.0013	0.0011
Infant weaning food, custard/fruit dish	0.0009	0.0013	0.0004	0.0004
Infant weaning food, savoury dish	0.0048	0.0058	0.0104	0.0043
Jam	nd	nd	nd	0.0027
Margarine	nd	nd	nd	nd
Muesli	0.0289	0.0151	0.026	0.0087
Noodles, instant	0.0042	0.0043	0.0019	0.0022
Oats, rolled	0.0019	0.0029	0.0029	0.0065
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	0.0061	0.0079	0.0036	0.0038
Peaches, canned	0.0013	0.0019	0.0039	0.0016
Peanut butter	0.0353	0.0241	0.0911	0.0653
Peanuts, whole	0.0225	0.206	0.0625	0.2114
Peas, frozen	0.0051	0.0009	0.0041	0.0022
Pineapple, canned	0.0008	0.0007	0.0004	0.0012
Potato crisps	0.1018	0.0822	0.14	0.1007
Prunes, pitless	nd	nd	0.0026	nd
Raisins/Sultanas	nd	nd	0.0027	nd
Rice, white	0.0079	0.0011	0.0009	0.0052
Salad dressing	0.002	0.0052	0.0025	0.0022
Snack bars	0.0088	0.0146	0.0068	0.0067
Snacks, flavoured	0.0031	0.005	0.021	nd
Soup, chicken	nd	0.0008	0.0006	0.0004
Soy milk	0.0019	0.0043	0.0056	0.0016
Spaghetti in sauce, canned	0.0069	0.0084	0.007	0.0083
Sugar	nd	nd	nd	nd
Tea	nd	nd	0.0003	nd
Tomato sauce, canned	0.0153	0.0149	0.0158	0.0196
Tomatoes in juice, canned	0.0146	0.0086	0.0095	0.0126
Wine, still red	0.0025	0.0003	nd	0.0013
Wine, still white	0.0004	0.0004	0.0003	0.0023
Yeast extract	0.0101	0.0097	0.0094	0.0112
Yoghurt	0.0006	0.0028	nd	0.0005

nd = not detected.

Limit of detection for Cadmium = 0.0002 mg/kg (liquid) / 0.0004 mg/kg (high moisture) / 0.0020 mg/kg (fatty or low moisture sample).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.3 Iodine

4.2.3.1 Iodine content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	0.0052	nd	0.0015	0.0026
Apricots, canned	0.0265	0.0215	0.0215	0.0122
Bananas	nd	nd	nd	nd
Beans, baked, canned	0.005	0.0072	0.0077	0.0053
Beans, frozen	0.0024	0.0041	0.0023	0.0026
Beer	0.0015	0.0021	0.0054	0.0057
Beetroot, canned	0.0332	0.0318	0.0312	0.0204
Biscuits, chocolate	0.1911	0.1283	0.0412	0.0512
Biscuits, cracker	0.0203	nd	nd	0.3447
Biscuits, plain sweet	0.1012	0.0172	nd	0.1143
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	0.0024	0.0031	nd
Carbonated drink	nd	0.0133	nd	0.0039
Cheese	0.0589	0.0524	0.058	0.0868
Chicken	0.0066	0.0055	0.0069	0.0078
Chocolate beverage	0.0143	0.0083	nd	0.0043
Chocolate, plain milk	0.2684	0.1134	0.1212	0.4969
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	0.0083	0.0091	0.0064	0.006
Cornflakes	nd	nd	nd	nd
Dairy dessert	0.0339	0.0492	0.044	0.0427
Fish fingers	0.075	0.0698	0.0324	0.1031
Fish, canned	0.0786	0.145	0.0634	0.3946
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	0.0488	0.066	0.0449	0.1082
Infant and follow-on formula	0.1757	0.1204	0.0865	0.1088
Infant weaning food, cereal based	0.0085	nd	nd	0.0021
Infant weaning food, custard/fruit dish	0.0069	0.0528	0.0372	0.0602
Infant weaning food, savoury dish	0.0055	0.0093	0.0042	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0296	0.0107	nd	nd
Noodles, instant	0.2328	0.0032	0.0201	0.0048
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	0.001	0.0025	0.0088	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	0.0563	0.0692	0.0713	nd
Peaches, canned	0.0215	0.0121	0.0123	nd
Peanut butter	0.0158	0.0201	0.2193	0.0159
Peanuts, whole	0.0127	0.0145	0.0119	0.0138
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	0.0179	nd	0.032	0.039
Potato crisps	nd	nd	0.0108	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	0.0184	0.0348	0.0203	0.0225
Rice, white	nd	nd	nd	nd
Salad dressing	0.0253	0.0751	0.0244	0.0587
Snack bars	0.0493	0.0153	0.047	0.025
Snacks, flavoured	0.0336	0.0137	0.011	0.1277
Soup, chicken	0.0064	0.014	0.0283	0.069
Soy milk	0.0201	0.0053	0.0071	0.0191
Spaghetti in sauce, canned	0.0057	0.0052	0.0074	0.0028
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	0.0126	0.012	0.0165	0.0054
Tomatoes in juice, canned	0.0025	nd	0.0029	0.0042
Wine, still red	0.0082	0.0061	0.0044	0.0105
Wine, still white	0.0015	0.0017	0.0011	0.0012
Yeast extract	0.0695	0.0462	0.0379	0.0464
Yoghurt	0.0575	0.0209	0.1043	0.0505

nd = not detected.

Limit of detection for Iodine = 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture samples) / 0.010 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.4 Lead

4.2.4.1 Lead content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	0.003	0.002	0.0027	0.004
Apricots, canned	0.0156	0.0163	0.0245	0.0215
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	0.0028
Beans, frozen	0.0103	nd	nd	nd
Beer	0.001	0.0016	0.0013	0.0015
Beetroot, canned	nd	0.0021	nd	nd
Biscuits, chocolate	nd	0.0144	0.0142	nd
Biscuits, cracker	nd	nd	0.0237	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0305	nd	0.0159	nd
Caffeinated beverage	0.0034	0.0037	0.0024	0.0028
Carbonated drink	0.0013	0.0011	0.0026	0.0019
Cheese	nd	0.0128	nd	nd
Chicken	nd	0.0025	0.0025	0.0022
Chocolate beverage	0.0021	0.0034	0.0014	0.0023
Chocolate, plain milk	0.0272	nd	0.0359	0.0105
Coffee instant	0.0015	0.0024	0.0019	0.0024
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	0.0032	0.0034
Fish fingers	0.0021	nd	nd	0.0037
Fish, canned	0.0049	nd	nd	nd
Fruit Drink	0.0014	0.0022	nd	0.0028
Honey	0.011	nd	0.0216	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	0.0017	nd	nd
Infant weaning food, cereal based	0.0133	nd	nd	0.0031
Infant weaning food, custard/fruit dish	0.0041	nd	0.002	nd
Infant weaning food, savoury dish	nd	nd	0.0042	0.0034
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	0.0199	nd	nd
Noodles, instant	0.0038	0.0033	0.0056	0.0068
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	0.0015	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	nd	nd	nd	nd
Peaches, canned	0.0323	0.0275	0.0173	0.0605
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	0.0037	nd	0.0063	0.0043
Pineapple, canned	0.0079	0.0055	0.0249	0.0151
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	0.0934	nd
Raisins/Sultanas	0.0179	0.0244	0.0411	0.0137
Rice, white	nd	nd	0.0046	nd
Salad dressing	nd	nd	nd	0.0116
Snack bars	0.0513	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	0.0029	0.0049	0.0057	0.0031
Soy milk	0.0021	0.0012	0.0016	0.0013
Spaghetti in sauce, canned	nd	0.003	nd	0.005
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	0.0027	0.0026	nd	0.0044
Tomatoes in juice, canned	0.0065	0.0116	0.0042	0.0048
Wine, still red	0.0027	0.0034	0.0023	0.0016
Wine, still white	0.0095	0.0105	0.0081	0.0085
Yeast extract	0.0125	nd	0.0146	nd
Yoghurt	nd	nd	0.0021	0.0031

nd = not detected.

Limit of detection for Lead = 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture) / or 0.010 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.5 Mercury

4.2.5.1 Total Mercury content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	0.0478	0.0484	0.1269	0.0812
Fish, canned	0.0327	0.0193	0.0214	0.0164
Fruit Drink	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Peaches, canned	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of detection for total Mercury = 0.00008 mg/kg (water) / 0.001 mg/kg (liquid) / 0.002 mg/kg (high moisture) / 0.005 mg/kg (fatty, low moisture solid samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.5.2 Foods *not analysed* for total mercury content (mg/kg) in Q4 of 2009 NZTDS

Biscuits, chocolate	Cornflakes	Oats, rolled	Snack bars
Biscuits, cracker	Honey	Oil	Snacks, flavoured
Biscuits, plain sweet	Ice cream	Pasta, dried	Spaghetti in sauce, canned
Bran flake cereal, mixed	Jam	Peanut butter	Sugar
Cheese	Margarine	Peanuts, whole	Yeast extract
Chocolate, plain milk	Muesli	Rice, white	
Confectionery	Noodles, instant	Salad dressing	

4.2.6 Methylmercury

Although analysed as methylmercury chloride, results are reported as methylmercury. To convert methylmercury results to elemental mercury, multiply by 0.926.

4.2.6.1 Methylmercury content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Fish fingers	0.0493	0.0349	0.0859	0.0617
Fish, canned	0.0244	0.0046	0.0053	0.0058

nd = not detected.

Limit of detection for Methylmercury = 0.005 mg/kg (high moisture solid samples) / 0.010 mg/kg (fatty, low moisture samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.6.2 Foods *not analysed* for Methylmercury content (mg/kg) in Q4 of 2009 NZTDS

Apple-based juice	Chocolate beverage	Margarine	Rice, white
Apricots, canned	Chocolate, plain milk	Muesli	Salad dressing
Bananas	Coffee instant	Noodles, instant	Snack bars
Beans, baked, canned	Confectionery	Oats, rolled	Snacks, flavoured
Beans, frozen	Corn, canned	Oil	Soup, chicken
Beer	Cornflakes	Orange juice	Soy milk
Beetroot, canned	Dairy dessert	Pasta, dried	Spaghetti in sauce, canned
Biscuits, chocolate	Fruit Drink	Peaches, canned	Sugar
Biscuits, cracker	Honey	Peanut butter	Tea
Biscuits, plain sweet	Ice cream	Peanuts, whole	Tomato sauce, canned
Bran flake cereal, mixed	Infant and follow-on formula	Peas, frozen	Tomatoes in juice, canned
Caffeinated beverage	Infant weaning food, cereal based	Pineapple, canned	Wine, still red
Carbonated drink	Infant weaning food, custard/fruit dish	Potato crisps	Wine, still white
Cheese	Infant weaning food, savoury dish	Prunes, pitless	Yeast extract
Chicken	Jam	Raisins/Sultanas	Yoghurt

4.2.7 Selenium

4.2.7.1 Selenium content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	0.0076	0.0226	0.0457	nd
Beans, baked, canned	0.0216	0.0237	0.0274	0.0188
Beans, frozen	nd	0.0129	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	0.0224	nd	nd	nd
Biscuits, cracker	0.0903	0.0212	nd	0.1077
Biscuits, plain sweet	0.0414	0.0709	0.0247	0.0416
Bran flake cereal, mixed	0.0432	0.0517	0.0599	0.1402
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	0.0876	0.0893	0.0837	0.0866
Chicken	0.3313	0.192	0.3844	0.3145
Chocolate beverage	0.0021	nd	nd	nd
Chocolate, plain milk	0.0279	0.0255	nd	0.0215
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	0.0049	nd	0.0056	nd
Cornflakes	0.0261	0.0267	nd	nd
Dairy dessert	0.0064	0.0089	0.0095	0.0107
Fish fingers	0.2806	0.3294	0.3927	0.2726
Fish, canned	0.4728	0.308	0.4941	0.2587
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	0.0132	nd	0.0128
Infant and follow-on formula	0.0221	0.0211	0.0115	0.0208
Infant weaning food, cereal based	nd	nd	nd	0.0139
Infant weaning food, custard/fruit dish	nd	nd	0.0052	0.0043
Infant weaning food, savoury dish	0.0051	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	na	na	na	na
Muesli	0.0675	0.0219	0.0916	0.0396
Noodles, instant	0.0722	0.0271	nd	0.0176
Oats, rolled	nd	0.0099	nd	0.0264
Oil	na	na	na	na
Orange juice	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	0.0353	0.0571	0.0372	0.0599
Peaches, canned	nd	nd	nd	nd
Peanut butter	0.0857	0.0576	0.0507	0.0496
Peanuts, whole	0.0425	0.0456	0.0535	0.0438
Peas, frozen	nd	nd	0.0054	0.0041
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	0.0059	0.0083	nd
Salad dressing	na	na	na	na
Snack bars	0.0355	0.0581	0.0301	0.0275
Snacks, flavoured	0.0309	0.0244	0.0663	0.0231
Soup, chicken	nd	nd	0.0145	0.0039
Soy milk	0.0087	0.0109	0.0078	0.0078
Spaghetti in sauce, canned	0.0041	0.0066	0.0064	0.0074
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	0.0196	0.2054	0.0223	0.2173
Yoghurt	0.0106	nd	0.0054	0.0079

nd = not detected. na = not analysed.

Limit of detection for Selenium = 0.001 mg/kg (water) / 0.002 mg/kg (liquid) / 0.004 mg/kg (high moisture samples) / 0.010 mg/kg (semi-moist samples) / 0.020 mg/kg (fatty or low moisture samples).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.2.8 Sodium

4.2.8.1 Sodium content (mg/kg) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	32	15	14	26
Apricots, canned	115	125	115	35
Bananas	nd	nd	nd	nd
Beans, baked, canned	4598	4636	4344	3802
Beans, frozen	nd	nd	nd	nd
Beer	18	22	22	37
Beetroot, canned	2544	2950	2209	1933
Biscuits, chocolate	1605	1518	1634	1921
Biscuits, cracker	8445	6472	7102	4788
Biscuits, plain sweet	2872	3284	3470	3462
Bran flake cereal, mixed	2051	3469	2117	3685
Caffeinated beverage	963	154	436	807
Carbonated drink	56	101	35	58
Cheese	6936	6940	7226	6557
Chicken	1208	998	1246	1525
Chocolate beverage	50	43	nd	23
Chocolate, plain milk	727	771	649	1080
Coffee instant	nd	nd	nd	6
Confectionery	804	154	207	441
Corn, canned	2223	1198	2439	1012
Cornflakes	5760	5768	7815	6889
Dairy dessert	429	525	388	372
Fish fingers	4444	4426	3762	3593
Fish, canned	3578	3708	4112	4012
Fruit Drink	191	153	62	245
Honey	nd	nd	nd	nd
Ice cream	381	585	366	468
Infant and follow-on formula	193	272	170	334
Infant weaning food, cereal based	70	nd	nd	nd
Infant weaning food, custard/fruit dish	67	185	159	144
Infant weaning food, savoury dish	190	78	227	nd
Jam	nd	nd	356	nd
Margarine	6714	6808	3505	3837
Muesli	73	552	89	181
Noodles, instant	4509	3643	2536	3801
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	14	14	5

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	nd	76	59	nd
Peaches, canned	55	20	21	nd
Peanut butter	4458	6370	2271	3702
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	11	12	nd	14
Pineapple, canned	29	nd	nd	nd
Potato crisps	4510	4785	3534	3626
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	97	147	207	124
Rice, white	nd	nd	21	nd
Salad dressing	6538	9622	7563	5887
Snack bars	1142	266	1963	2620
Snacks, flavoured	3100	8448	9062	8143
Soup, chicken	2267	4050	3139	4225
Soy milk	553	765	558	458
Spaghetti in sauce, canned	2949	4446	4411	3512
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	8214	10395	8363	6813
Tomatoes in juice, canned	67	57	1171	1807
Wine, still red	21	34	22	42
Wine, still white	19	28	22	24
Yeast extract	32581	33363	31825	33995
Yoghurt	465	48	442	355

nd = not detected.

Limit of detection for Sodium = 1.0 mg/kg (water) / 5 mg/kg (liquid) / 10 mg/kg (high moisture) / 20 mg/kg (semi-moist) / 50 mg/kg (high fat, low moisture).

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3 Agricultural compounds

For agricultural compounds, results are reported in three sections: compounds in the multi-residue screen that were not detected in any food for Q4 (which are listed collectively); each agricultural compound detected reported on a per compound basis for all foods screened; and dithiocarbamate fungicides.

All agricultural compound results in the NZTDS are reported on a 'foods as consumed' basis. Moisture contents of the foods have been separately determined, but are not detailed in this report.

Agricultural compounds are applied to specific foods, often under specific conditions or only at certain times. Different producers of a particular crop will not necessarily use the same compounds to perform the same tasks. This specificity suggests that residues will only be present in specific foods, rather than as ubiquitous contaminants present in all food groups. In addition, many compounds are known to break down rapidly in the environment. Therefore, for most agricultural compounds in most foods, a 'not detected' result is likely to represent a true zero result.

4.3.1 Agricultural compounds not detected in any food in Q4 of 2009 NZTDS

Of the 240 agricultural compounds screened for in the 2009 NZTDS, 215 were not detected in any of the foods analysed in Q4, these were:

Acephate	24'-DDE	Flusilazole	Permethrin
Acetochlor	24'-DDT	Flutriafol	Phorate
Acrinathrin	44'-DDD	Fluvalinate	Phosalone
Alachlor	44'-DDT	Folpet	Phosmet
Aldrin	delta-BHC	Fonofos	Phosphamidon
alpha-BHC	Demeton-S-methyl	Furalaxyl	Pirimicarb
Atrazine	Dichlobenil	Furathiocarb	Prochloraz
Atrazine-desethyl	Dichlofenthion	gamma-BHC (Lindane)	Profenofos
Atrazine-desisopropyl	Dichlofluanid	Halfenprox	Prometryn
Azaconazole	Dichloran	Haloxypop-methyl	Propachlor
Azinphos-methyl	Dicrotophos	Heptachlor	Propanil
Azoxystrobin	Dieldrin	Heptachlor-epoxide	Propaphos
Benalaxyl	Diemethomorph	Heptenophos	Propazine
Bendiocarb	Difenoconazole	Hexachlorobenzene	Propetamphos
Benodanil	Diflufenican	Hexaconazole	Propoxur
Benoxacor	Dimethenamid	Hexazinone	Propyzamide
beta-BHC	Dimethoate	Hexythiazox	Prothiofos
Bifenox	Dimethylvinphos	Indoxacarb	Pyraclufos
Bifenthrin	Dinocap	Iodofenphos	Pyrazophos
Bioresmethrin	Dioxabenzofos	Iprobenfos	Pyrazoxyfen
Bitertanol	Diphenamid	Iprodione	Pyrethrin
Bromacil	Disulfoton	Isazophos	Pyrifenox
Bromophos-ethyl	Edifenphos	Isofenphos	Pyriproxifen
Bromopropylate	Endosulfan I	Kresoxim-methyl	Quinalphos
Bupirimate	Endosulfan II	Leptophos	Quintozene
Buprofezin	Endosulfan sulfate	Linuron	Quizalofop-ethyl
Butachlor	Endrin	Mepronil	Simazine
Butamifos	Endrin-aldehyde	Metalaxyl	Simetryn
Cadusafos	Endrin-Ketone	Methacrifos	Sulfentrazone
Captafol	Epoxiconazole	Methamidophos	Sulfotep
Captan	EPTC	Methidathion	Tebuconazole
Carbaryl	Esfenvalerate	Methiocarb	Tebufenpyrad
Carbofenthion	Esprocarb	Methoxychlor	Tefluthrin
Carbofuran	Ethofumesate	Metolachlor	Terbacil
Carboxin	Ethoprophos	Metribuzin	Terbufos
Chlorfenapyr	Ethoxyquin	Mevinphos	Terbumeton
Chlorfenvinphos	Etridiazole	Molinate	Terbutylazine
Chlorfluazuron	Etrimfos	Monocrotophos	Terbutylazine-desethyl

Chlorobenzilate	Famphur	Myclobutanil	Terbutryn
Chlorothalonil	Fenamiphos	Naled	Tetrachlorvinphos
Chlorpropham	Fenarimol	Napropamide	Tetradifon
Chlorpyrifos-methyl	Fenchlorphos	Nitrofen	Thenylchlor
Chlorthal-dimethyl	Fenobucarb	Nitrothal-isopropyl	Thiobencarb
Chlortoluron	Fenoxaprop-ethyl	Norflurazon	Thiometon
Chlozolinate	Fenpiclonil	Omethoate	Tolclofos-methyl
cis-Chlordane	Fenpropathrin	Oxadiazon	Tolyfluanid
Clomazone	Fenpropimorph	Oxadixyl	trans-Chlordane
Coumaphos	Fensulfothion	Oxychlordane	Triadimefon
Cyanazine	Fenthion	Oxyfluorfen	Tri-allate
Cyanophos	Fenvalerate	Paclobutrazol	Triazophos
Cyfluthrin	Flamprop-methyl	Parathion-ethyl	Trifloxystrobin
Cyhalothrin	Fluazifop-butyl	Parathion-methyl	Trifluralin
Cyproconazole	Flucythrinate	Penconazole	Vinclozolin
24'-DDD	Fluometuron	Pendimethalin	

4.3.2 Chlorpyrifos

4.3.2.1 Chlorpyrifos residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0051	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0029	nd	nd	0.0023
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	nd	nd	nd	nd
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	0.0021	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	0.0035	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Chlorpyrifos = 0.002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.3 Cypermethrin

4.3.3.1 Cypermethrin residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.012	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Cypermethrin = 0.008 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.4 Cyprodinil

4.3.4.1 Cyprodinil residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.008	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0012	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	0.0079	nd	0.0017
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Cyprodinil = 0.002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.5 4, 4' DDE

4.3.5.1 4, 4' DDE residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	0.0049	nd	0.0049
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	0.0141	nd	0.0045
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for 4, 4' DDE = 0.0002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.6 Deltamethrin

4.3.6.1 Deltamethrin residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	0.0232	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	0.0208	0.0153	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Deltamethrin = 0.01 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.7 Diazinon

4.3.7.1 Diazinon residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	0.0028	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Diazinon = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.8 Dichlorvos

4.3.8.1 Dichlorvos residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	0.002	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	0.0076
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Dichlorvos = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.9 Dicofol

4.3.9.1 Dicofol residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0069	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Dicofol = 0.002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.10 Diphenylamine

4.3.10.1 Diphenylamine residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	0.0012	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	0.0043	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Pasta, dried	nd	nd	nd	nd
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Diphenylamine = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.11 Diuron

4.3.11.1 Diuron residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	0.0042	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Diuron = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.12 EPN

4.3.12.1 EPN residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	0.0033
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for EPN = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.13 Ethion

4.3.13.1 Ethion residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	0.0015
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	0.0012	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Ethion = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.14 Fenitrothion

4.3.14.1 Fenitrothion residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	0.0121	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0435	nd	0.0524	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	0.0632	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	0.0034	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Fenitrothion = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.15 Fludioxonil

4.3.15.1 Fludioxonil residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0019	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Fludioxonil = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.16 Imazalil

4.3.16.1 Imazalil residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	0.0136	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Imazalil = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.17 Isoprocarb

4.3.17.1 Isoprocarb residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	0.0104
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0565	0.013	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	0.2041	0.1019	nd	0.0796
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Isoprocarb = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.18 Malathion

4.3.18.1 Malathion residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	0.0012	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	0.0044	nd	0.0049	0.0036
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	0.0062	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Malathion = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.19 Phenthoate

4.3.19.1 Phenthoate residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	0.0027	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Phenthoate = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.20 Piperonyl-butoxide

4.3.20.1 Piperonyl-butoxide residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	0.0341	nd	0.0049	0.0024
Biscuits, cracker	0.008	nd	0.0057	nd
Biscuits, plain sweet	0.0378	0.2072	0.0448	0.0344
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	0.0044	nd	0.0101
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	0.0095
Dairy dessert	nd	nd	nd	nd
Fish fingers	0.0253	0.022	0.0242	0.004
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0011	0.043	0.0583	0.0055
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	0.0012	0.1631	0.1351	0.0083

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	0.0128	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	0.0015
Prunes, pitless	nd	0.0023	nd	nd
Raisins/Sultanas	0.0089	0.0123	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	0.0273	0.0021	0.0146	0.0375
Snacks, flavoured	nd	0.0069	0.0146	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	0.0234	0.0046	0.0538	0.0079
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Piperonyl-butoxide = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.21 Pirimiphos-methyl

4.3.21.1 Pirimiphos-methyl residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	0.005	0.0318	0.0375
Biscuits, cracker	nd	0.0196	0.0389	0.0027
Biscuits, plain sweet	0.0674	nd	0.0815	0.039
Bran flake cereal, mixed	0.0095	nd	nd	0.0031
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	0.0082	0.0148	0.0103	0.0138
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	0.0022	0.0011	nd
Noodles, instant	nd	0.0031	nd	nd
Oats, rolled	nd	0.0051	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	0.0014	nd	0.0026	0.0062
Snacks, flavoured	0.0147	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	0.0031	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Pirimiphos-methyl = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.22 Procymidone

4.3.22.1 Procymidone (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0421	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0124	0.0011	0.0056	0.0052
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	0.0059	0.0027	nd	0.0068
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	0.0078	0.0065	0.0148	0.0019
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	0.0024	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Procymidone = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.23 Propargite

4.3.23.1 Propargite residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	0.0032	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	0.0042	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Propargite = 0.002 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.24 Propham

4.3.24.1 Propham residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	0.1103	0.7409	0.1378	0.2829
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Protham = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.25 Propiconazole

4.3.25.1 Propiconazole residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	nd	nd	nd	nd
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	nd	nd	nd
Rice, white	0.0148	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	nd	nd	nd	nd
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	nd	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Propiconazole = 0.003 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.26 Pyrimethanil

4.3.26.1 Pyrimethanil residues (mg/kg) in foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	nd
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	nd	nd	nd	nd
Beer	nd	nd	nd	nd
Beetroot, canned	nd	nd	nd	nd
Biscuits, chocolate	nd	nd	nd	nd
Biscuits, cracker	nd	nd	nd	nd
Biscuits, plain sweet	nd	nd	nd	nd
Bran flake cereal, mixed	nd	nd	nd	nd
Caffeinated beverage	nd	nd	nd	nd
Carbonated drink	nd	nd	nd	nd
Cheese	nd	nd	nd	nd
Chicken	nd	nd	nd	nd
Chocolate beverage	nd	nd	nd	nd
Chocolate, plain milk	nd	nd	nd	nd
Coffee instant	nd	nd	nd	nd
Confectionery	nd	nd	nd	nd
Corn, canned	nd	nd	nd	nd
Cornflakes	nd	nd	nd	nd
Dairy dessert	nd	nd	nd	nd
Fish fingers	nd	nd	nd	nd
Fish, canned	nd	nd	nd	nd
Fruit Drink	nd	nd	nd	nd
Honey	nd	nd	nd	nd
Ice cream	nd	nd	nd	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	nd	nd	nd	nd
Jam	nd	nd	nd	nd
Margarine	nd	nd	nd	nd
Muesli	0.0091	0.0024	nd	0.0036
Noodles, instant	nd	nd	nd	nd
Oats, rolled	nd	nd	nd	nd
Oil	nd	nd	nd	nd
Orange juice	nd	nd	nd	nd
Pasta, dried	nd	nd	nd	nd

Food	Brand 1	Brand 2	Brand 3	Brand 4
Peaches, canned	nd	nd	nd	nd
Peanut butter	nd	nd	nd	nd
Peanuts, whole	nd	nd	nd	nd
Peas, frozen	nd	nd	nd	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	nd	nd	nd	nd
Prunes, pitless	nd	nd	nd	nd
Raisins/Sultanas	nd	0.0031	nd	0.0025
Rice, white	nd	nd	nd	nd
Salad dressing	nd	nd	nd	nd
Snack bars	0.0013	0.0061	0.0046	0.0068
Snacks, flavoured	nd	nd	nd	nd
Soup, chicken	nd	nd	nd	nd
Soy milk	nd	nd	nd	nd
Spaghetti in sauce, canned	nd	nd	nd	nd
Sugar	nd	nd	nd	nd
Tea	nd	nd	nd	nd
Tomato sauce, canned	nd	nd	nd	nd
Tomatoes in juice, canned	nd	nd	nd	nd
Wine, still red	nd	0.0035	nd	nd
Wine, still white	nd	nd	nd	nd
Yeast extract	nd	nd	nd	nd
Yoghurt	nd	nd	nd	nd

nd = not detected.

Limit of reporting (LOR) for Pyrimethanil = 0.001 mg/kg (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.27 Dithiocarbamate fungicides

The level of dithiocarbamates in foods is reported as the amount of carbon disulphide (CS₂). This is the generally accepted international method for analysis of dithiocarbamates. The method is unable to differentiate which dithiocarbamate is present.

4.3.27.1 Dithiocarbamate fungicide content (mg/kg of CS₂) of foods in Q4 of 2009 NZTDS

Food	Brand 1	Brand 2	Brand 3	Brand 4
Apple-based juice	nd	nd	nd	nd
Apricots, canned	nd	nd	nd	0.0468
Bananas	nd	nd	nd	nd
Beans, baked, canned	nd	nd	nd	nd
Beans, frozen	0.0173	nd	nd	nd
Beetroot, canned	nd	0.019	nd	nd
Corn, canned	nd	nd	0.0147	nd
Infant and follow-on formula	nd	nd	nd	nd
Infant weaning food, cereal based	nd	nd	nd	nd
Infant weaning food, custard/fruit dish	nd	nd	nd	nd
Infant weaning food, savoury dish	0.0218	0.0321	0.0102	0.0104
Orange juice	nd	nd	nd	nd
Peaches, canned	0.0127	nd	0.0109	nd
Peas, frozen	0.0264	0.0208	0.0251	nd
Pineapple, canned	nd	nd	nd	nd
Potato crisps	0.0198	nd	nd	nd
Prunes, pitless	nd	nd	0.0288	nd
Raisins/Sultanas	0.0405	0.0863	nd	nd
Tomato sauce, canned	nd	nd	nd	0.0275
Tomatoes in juice, canned	0.011	nd	nd	nd

nd = not detected. Limit of reporting (LOR) = 0.01 mg/kg CS₂ (most samples). The LOR does vary with different matrices.

Note: Given limited sample numbers, comparisons between brands are not appropriate.

4.3.27.2 Foods *not analysed* for dithiocarbamate fungicide content in Q4 of 2009 NZTDS

Beer	Coffee instant	Muesli	Soup, chicken
Biscuits, chocolate	Confectionery	Noodles, instant	Soy milk
Biscuits, cracker	Cornflakes	Oats, rolled	Spaghetti in sauce, canned
Biscuits, plain sweet	Dairy dessert	Oil	Sugar
Bran flake cereal, mixed	Fish fingers	Pasta, dried	Tea
Caffeinated beverage	Fish, canned	Peanut butter	Wine, still red
Carbonated drink	Fruit Drink	Peanuts, whole	Wine, still white
Cheese	Honey	Rice, white	Yeast extract
Chicken	Ice cream	Salad dressing	Yoghurt
Chocolate beverage	Jam	Snack bars	
Chocolate, plain milk	Margarine	Snacks, flavoured	

5 Glossary of terms and abbreviations

Term or abbreviation	Explanation
Agricultural compound	A generic term for any substance intended for preventing, destroying, attracting, repelling, or controlling any pest including unwanted species of plants or animals, during the production, storage, transportation, distribution, and processing of food, agricultural commodity, or animal feed. The term includes fungicides, herbicides, insecticide, and chemicals which may be administered to animals for the control of ectoparasites. It includes substances applied to crops either before or after harvest to protect the commodity from deterioration during storage and transport, or disinfestations of raw primary produce. It includes substances in current use in New Zealand or other countries (from which New Zealand may import products); substances previously but no longer in use; and some substances the use of which is prohibited in New Zealand or overseas.
Agricultural compound residue	Any specified substance in food, agricultural commodity, or animal feed resulting from the use of an agricultural compound (from known, unknown or unavoidable sources). Includes any derivatives of an agricultural compound, such as conversion products, metabolites, reaction products, and impurities considered to be of toxicological significance
Codex	The joint FAO/WHO Codex Alimentarius Commission sets international food standards and guidelines, including acceptable levels of chemical components in foods made on advice from the joint FAO/WHO Expert Committee on Food Additives (JECFA) and the Joint FAO/WHO Joint Meeting on Pesticide Residues (JMPR).
CRM	Certified Reference Material or Standard Reference Material. A material tested by a wide range of international laboratories, to reach consensus on the levels of analytical components which it contains
Duplicate sample	Duplicates of samples are performed on a selection of samples in each batch to ascertain analytical precision. Coefficients of variation (CV = standard deviation of results divided by mean x 100%) of less than 10% are considered very good but may be acceptable at significantly greater than this, depending on the matrix, analyte and concentration.
FSANZ	Food Standards Australia New Zealand
FSC	The Australia New Zealand Food Standards Code
Limit of Detection (LOD)	This may be defined as the minimum concentration of the component in a dietary sample that can be qualitatively detected, but not quantitatively determined, under a pre-established set of analytical conditions
Limit of Reporting (LOR)	This is the minimum concentration of an analyte in a dietary sample that can be determined quantitatively with acceptable accuracy and consistency. This is also referred to as the 'Limit of Quantitation'.
ML	Maximum Level. This means the maximum level of a specified contaminant which is permitted to be present in a nominated food, unless otherwise specified, in milligrams of the contaminant per kilogram of the food (mg/kg). MLs relevant to food consumed in New Zealand are set by FSANZ or Codex.
Multi-residue (MR) screen	An analytical technique developed to detect and quantify the widest achievable range of agricultural compounds types. Also commonly referred to as a multi-residue pesticide screen.
MRL	Maximum Residue Limit. This is the maximum concentration of an agricultural compound residue legally permitted (or recognised as acceptable) in or on a food (agricultural commodity or animal product). MRLs for foodstuffs in New Zealand are set out in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standard. MRLs are the maximum considered to result from the use of the agricultural compound according to Good Agricultural Practice (GAP) and which is toxicologically acceptable.
NZFSA	New Zealand Food Safety Authority
NZTDS	New Zealand Total Diet Study
Q1, Q4, etc	Quarter 1, Quarter 2, etc. of the New Zealand Total Diet Study sampling programme
Spike recovery	Spiking is a commonly applied laboratory quality control practice and is often used where CRMs are not available. It is to estimate in a separate experiment the recovery of a

Term or abbreviation	Explanation
	<p>particular analyte added as a spike. If a matrix blank (a specimen of the matrix containing effectively none of the analyte) is available the analyte can be spiked into that and its recovery determined after application of the normal analytical procedure (the amount of analyte measured in the spiked sample minus the amount in the unspiked sample divided by the amount of analyte spiked into the sample times 100). If no matrix blank is available, the spike can be added to an ordinary test portion that is analysed alongside an unspiked test portion. The difference between these two results is the recovered part of the added analyte, which can be compared with the known amount added.</p> <p>In spike-and-recovery, a known amount of analyte is added (spiked) into the natural test sample matrix and its response is measured (recovered) in the assay by comparison to an identical spike in the standard diluent. Acceptable recoveries for trace analyses would generally be 70 - 125%.</p>

6 Appendix 1 Background to the 2009 NZTDS

The 2009 New Zealand Total Diet Study (NZTDS) is undertaken by the New Zealand Food Safety Authority (NZFSA) and is part of its contract for scientific services with the Institute of Environmental Science and Research (ESR). The primary purpose of the NZTDS is to assess dietary exposure to chemical residues, contaminant elements and selected nutrients, from 123 representative foods, across the average diet of different age-sex groups within the New Zealand population.

A distinguishing characteristic of total diet studies, including the NZTDS, is that foods are analysed on an 'as consumed' basis (i.e. banana, peeled; meat, cooked). Thus providing an assessment of any potential risk to the consumer at the point of consumption of the food. As such, the NZTDS contrasts with commodity based surveillance or monitoring programmes, which analyse foods as they are available for sale or 'as produced' i.e. bananas, whole; chicken with skin; meat, raw.

The 2009 NZTDS is the seventh such study of its kind in New Zealand and the second undertaken by NZFSA. The first five surveys were carried out jointly by the Ministry of Health (formerly the Department of Health) and ESR (formerly DSIR Chemistry Division).

Undertaking the NZTDS enables NZFSA to assess the status of certain compounds in the New Zealand food supply; indicate any potential exposure concerns and target any necessary risk management or risk communication; demonstrate trends in dietary exposure; and make comparisons with exposure estimates derived in other countries.

The design and content of the 2009 NZTDS was agreed following consideration of the comments received from interested parties (including public health, academia and research institutes, industry sector groups, and consumer groups) on the proposed outline published by NZFSA in June 2008. The 2009 NZTDS is conducted in accordance with the recommendations of the FAO/WHO Joint Expert Committee on Pesticide Residues and in agreement with the objectives of the Joint FAO/WHO Global Environmental Monitoring Systems (GEMS; FAO/UNEP/WHO, 1985).

6.1 Objectives

The objectives of the 2009 NZTDS are:

- agree in consultation with stakeholders the design and content of the 2009 NZTDS;
- estimate dietary exposure for selected chemical residues, contaminants and nutrient elements in the New Zealand food supply and identify trends in New Zealand over time;

- compare dietary exposure estimates with those in other countries where comparable data is available;
- ensure that the outcomes of the NZTDS complement data on chemical residues, contaminants and nutrient elements generated from other sources in New Zealand;
- where appropriate, provide data on selected chemical residues, contaminants and nutrient elements for incorporation into other databases including the World Health Organization (WHO) Global Environmental Monitoring System (GEMS) and the New Zealand Food Composition Database; and
- communicate findings in a timely and transparent manner.

6.2 Timetable

Sampling will be carried out on four occasions during the 2009 calendar year, referred to as quarters (Q1, Q4, etc). Chemical analyses will be carried out during the 2009 year and completed in the early part of the 2010 year. Data analysis, exposure estimates, writing of full interpretative reports will take place in 2010 with initial release of the final results in late 2010.

6.3 Foods

Foods to be sampled and analysed in the NZTDS are divided into two categories:

- National Foods (62) - are not expected to exhibit any regional variability and include processed foods such as biscuits, breakfast cereals and beverages, which are uniformly available New Zealand wide. National foods are to be sampled in a single location (Christchurch) on two occasions. Up to four brands, selected on the basis of market share, will be collected on each sampling occasion. Foods will all be prepared and analysed on the basis of individual brands/seasons to give a total of four analyses for each food for each season.
- Regional Foods (61) - may be expected to demonstrate variation in agricultural compound, contaminant and nutrient level depending on the location in which the food was produced. Regional foods include meat, fruit and vegetables. Regional foods will be sampled in each of four locations (Auckland, Napier, Christchurch and Dunedin) on two occasions. All foods will all be prepared and analysed on the basis of individual regions/seasons to give a total of four analyses for each food for each season.

A detailed food list for the 2009 NZTDS was developed by NZFSA (NZFSA, 2008), and based primarily on that prepared for the 2003/04 NZTDS by Brinsdon, 2002. The full food list for the 2009 NZTDS is given in Appendix 2.

Foods sampled in the fourth quarter (Q4) were national foods.

6.4 Reporting

An analytical results report is generated at the conclusion of analyses for each quarter. Each report will detail the concentrations of agricultural compound residues, contaminants and nutrients found in foods sampled during that quarter. This is the second of these quarterly reports.

Internally and externally peer-reviewed interpretative report(s) are scheduled to be produced at the conclusion of the project, commenting on concentration data and estimated dietary intakes, and making comparisons to internationally accepted health standards and comparable overseas studies.

7 Appendix 2 Food list and associated analyses in the 2009 NZTDS

The foods of the 2009 NZTDS are listed in the table below in alphabetical order. Foods which are actually new to the food list for the 2009 NZTDS are identified in the first column. The food 'type' column identifies the NZTDS foods as either national (N) or regional (R) foods (see Appendix 1 for an explanation of these terms). Only regional foods were analysed in Q4. The remainder of the table consolidates information about which foods were analysed for which analytes in the 2009 NZTDS. The other abbreviations used in the table are as follows: MR = Multi residue screen for agricultural compounds; DTC = dithiocarbamate fungicide screen; Elements (five) = arsenic, cadmium, iodine, lead and sodium; Hg = mercury; MeHg = methylmercury; Se = selenium; and na = food not analysed for this analyte. When analysed, all foods were analysed as an individual regional / brand composite per season.

The following criteria were used to decide if a food was analysed in the 2009 NZTDS for certain analytes; or not analysed:

- high contributor to exposure from WHO GEMS;
- high contributor to exposure from 2003/04 NZTDS;
- high concentration in 2003/04 NZTDS;
- limit of detection (LOD) in respective matrices;
- key food(s) / food group(s) covered for new analytes (ie MeHg);
- available budget, recognising differential costs for agricultural compounds, elements and moisture; and
- comparable individual analyses from 2003/04 NZTDS to 2009.

New food in 2009 NZTDS	Food	Type	MR	DTC	Element	Hg	MeHg	Se
	Apple-based juice	N	√	√	√	√	√	√
	Apples	R	√	√	√	√	√	√
	Apricots, canned	N	√	√	√	√	√	√
	Avocado	R	√	√	√	√	√	√
	Bacon	R	√	na	√	√	√	√
	Bananas	N	√	√	√	√	√	√
	Beans	N	√	√	√	√	√	√
	Beans, baked, canned	N	√	√	√	√	√	√
	Beef, corned	R	√	na	√	√	√	√
	Beef, mince	R	√	na	√	√	√	√
	Beef, rump	R	√	na	√	√	√	√
	Beer	N	√	na	√	√	√	√
	Beetroot, canned	N	√	√	√	√	√	√
	Biscuits, chocolate	N	√	na	√	na	na	√
	Biscuits, cracker	N	√	na	√	na	na	√
	Biscuits, plain sweet	N	√	na	√	na	na	√
	Bran flake cereal, mixed	N	√	na	√	na	na	√
	Bread, mixed grain, sliced	R	√	na	√	na	na	√
	Bread, wheatmeal, sliced	R	√	na	√	na	na	√
	Bread, white, sliced	R	√	na	√	na	na	√
	Broccoli/Cauliflower	R	√	√	√	√	√	√
	Butter	N	√	na	√	na	na	√
	Cabbage	R	√	√	√	√	√	√
	Caffeinated beverage	N	√	na	√	√	√	√
	Cake, plain	R	√	na	√	na	na	√
	Capsicum	R	√	√	√	√	√	√
	Carbonated drink	N	√	na	√	√	√	√
	Carrots	R	√	√	√	√	√	√
	Celery	R	√	√	√	√	√	√
	Cheese	N	√	na	√	na	na	√
	Chicken	N	√	na	√	√	√	√
	Chicken takeaway	R	√	na	√	√	√	√
	Chinese dish	R	√	na	√	√	√	√
	Chocolate beverage	N	√	na	√	√	√	√
	Chocolate, plain milk	N	√	na	√	na	na	√
	Coffee instant	N	√	na	√	√	√	√
	Coffee, beans/ground	R	√	na	√	√	√	√
	Confectionery	N	√	na	√	na	na	√
	Corn, canned	N	√	√	√	√	√	√

New food in 2009 NZTDS	Food	Type	MR	DTC	Element	Hg	MeHg	Se
	Cornflakes	N	√	na	√	na	na	√
	Courgette	R	√	√	√	√	√	√
	Cream	R	√	na	√	na	na	√
	Cucumber	R	√	√	√	√	√	√
	Dairy dessert	N	√	na	√	√	√	√
	Egg	R	√	na	√	√	√	√
	Fish fingers	N	√	na	√	√	√	√
	Fish in batter	R	√	na	√	√	√	√
	Fish, canned	N	√	na	√	√	√	√
	Fish, fresh	R	√	na	√	√	√	√
	Fruit drink	N	√	na	√	√	√	√
	Grapes	R	√	na	√	√	√	√
	Ham	R	√	na	√	√	√	√
	Hamburger, plain	R	√	na	√	√	√	√
*	Indian dish	R	√	na	√	√	na	√
	Honey	N	√	na	√	na	na	√
	Ice cream	N	√	na	√	na	na	√
	Infant and follow-on formula	N	√	√	√	√	√	√
	Infant weaning food, cereal based	N	√	√	√	√	√	√
	Infant weaning food, custard, fruit	N	√	√	√	√	√	√
	Infant weaning food, savoury meat/veg	N	√	√	√	√	√	√
	Jam	N	√	na	√	na	na	√
	Kiwifruit	R	√	√	√	√	√	√
	Kumara	R	√	√	√	√	√	√
	Lamb/mutton	R	√	na	√	√	√	√
	Lambs liver	R	√	na	√	√	√	√
	Lettuce	R	√	√	√	√	√	√
	Margarine	N	√	na	√	na	na	na
	Meat pie	R	√	na	√	√	√	√
	Melon	R	√	√	√	√	√	√
	Milk, 0.5% fat (Trim)	R	√	na	√	√	√	√
	Milk, 3.25% fat	R	√	na	√	√	√	√
	Milk, flavoured	R	√	na	√	√	√	√
	Muesli	N	√	na	√	na	na	√
	Muffin	R	√	na	√	na	na	√
	Mushrooms	R	√	√	√	√	√	√
	Mussels	R	√	na	√	√	√	√
	Nectarines	R	√	√	√	√	√	√
	Noodles, instant	N	√	na	√	na	na	√
	Oats, rolled	N	√	na	√	na	na	√

New food in 2009 NZTDS	Food	Type	MR	DTC	Element	Hg	MeHg	Se
	Oil	N	√	na	√	na	na	na
	Onions	R	√	√	√	√	√	√
	Orange juice	N	√	√	√	√	√	√
	Oranges	R	√	√	√	√	√	√
	Oysters	R	√	na	√	√	√	√
	Pasta, dried	N	√	na	√	na	na	√
	Peaches, canned	N	√	√	√	√	√	√
	Peanut butter	N	√	na	√	na	na	√
	Peanuts, whole	N	√	na	√	na	na	√
	Pears	R	√	√	√	√	√	√
	Peas	N	√	√	√	√	√	√
	Pineapple, canned	N	√	√	√	√	√	√
	Pizza	R	√	na	√	√	√	√
	Pork chop	R	√	na	√	√	√	√
	Potato crisps	N	√	√	√	√	√	√
	Potato, hot chips	R	√	na	√	√	√	√
	Potatoes, peeled	R	√	√	√	√	√	√
	Potatoes, with skin	R	√	√	√	√	√	√
	Prunes	N	√	√	√	√	√	√
	Pumpkin	R	√	√	√	√	√	√
	Raisins/Sultanas	N	√	√	√	√	√	√
	Rice, white	N	√	na	√	na	na	√
	Salad dressing	N	√	na	√	na	na	na
	Sausages	R	√	na	√	√	√	√
	Silverbeet	R	√	√	√	√	√	√
	Snack bars	N	√	na	√	√	√	√
	Snacks, flavoured	N	√	na	√	na	na	√
	Soup, chicken	N	√	na	√	√	√	√
	Soya milk	N	√	na	√	√	√	√
	Spaghetti in sauce, canned	N	√	na	√	na	na	√
	Strawberries	R	√	√	√	√	√	√
	Sugar	N	√	na	√	na	na	√
	Taro	R	√	√	√	√	√	√
	Tea	N	√	na	√	√	√	√
	Tomato	R	√	√	√	√	√	√
	Tomato sauce	N	√	√	√	√	√	√
	Tomatoes in juice	N	√	√	√	√	√	√
*	Water, bottled	R	√	na	√	na	√	√
*	Water, tap	R	√	na	√	na	√	√
	Wheatbiscuit cereal	R	√	na	√	na	na	√
	Wine, still red	N	√	na	√	√	√	√

New food in 2009 NZTDS	Food	Type	MR	DTC	Element	Hg	MeHg	Se
	Wine, still white	N	√	na	√	√	√	√
	Yeast extract	N	√	na	√	na	na	√
	Yoghurt	N	√	na	√	na	na	√