

2015

**PESTICIDES
RESIDUES
IN FOOD**



Department of
**Agriculture,
Food and the Marine**
An Roinn
**Talmhaíochta,
Bia agus Mara**

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Department of Agriculture, Food and the Marine

Report of the National Pesticide Residues Control Programme

2015



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1. SUMMARY REPORT

This report on the National Pesticide Residues Control Programme, carried out in 2015 by the Department of Agriculture, Food and the Marine (DAFM), provides details on pesticide residues detected in food commodities available on the Irish market. The Programme enforces EU legislation establishing the maximum permitted concentration of pesticide residues in food, or Maximum Residue Levels (MRLs), and aims to ensure that consumers are not exposed to unacceptable risks from pesticide residues.

The Programme for 2015 planned for the analysis of 1,545 consignments of fruit, vegetables, cereal, animal products and baby foods for up to 405 pesticide and 7 PCB marker compounds to check for compliance with EU and national legislation for plant protection and veterinary products. The programme consisted of 2 strategies: a *surveillance strategy* consisting of the random sampling of food commodities; and an *enforcement strategy* involving the sampling of food commodities from specific sources where non-compliance with pesticide legislation was suspected or had been detected previously.

The Programme was agreed with the Food Safety Authority of Ireland and sent to the EU Commission as required by European legislation. Sampling of domestic and imported foodstuffs was conducted at wholesalers, retailers, grain mills or at meat plants.

The 1,157 samples taken in 2015 fell short of the planned number, due to staffing constraints within the Pesticide Control Laboratory. New staff are being recruited to address this issue. The sampling requirements of the co-ordinated EU monitoring programme were fulfilled. The samples, comprising of 589 fruits and vegetables, 40 cereals, 404 foods of animal origin, 44 baby foods and 80 enforcement samples, were taken and analysed for pesticide and chemical residues at the Pesticide Control Laboratory in Backweston, County Kildare. The laboratory has continued to maintain and extend its accreditation status with the Irish National Accreditation Board.

Overall 97.5% of the 1,157 samples analysed were free of quantifiable residues or contained residues within the legally permitted levels. No residues were detected in 53.8% of the samples, another 43.7% of samples contained residues at levels which were in compliance with the EU legislation and 2.5% (29 samples) contained residues exceeding the MRLs.

A sixth of the fruit and vegetable samples analysed were of domestic origin and the rest were imported from the EU and elsewhere. 96.8% of the fruit and vegetables samples either contained no residues or contained residues within the legally permitted levels (29.5% contained no residues and 67.2% of samples contained residues at levels which were in compliance with the EU legislation). The remaining 3.2% contained residues exceeding the MRLs.

In the case of the cereal samples, 60% taken were of domestic origin. All cereal samples either contained no residues or contained residues within the legally permitted levels. No residues were detected in 12.5% of the samples and 87.5% of the cereal samples had residues in compliance with the EU legislation.

Most of the food of animal origin samples originated domestically (99%) and all samples either contained no residues or contained residues within the legally permitted levels. No residues were detected in 93.6% of the samples and 6.4% of the samples had residues in compliance with the EU legislation.

No pesticide residues were detected in any of the baby food samples.

Sixty nine samples were taken under EU Regulations dealing with increased inspection of targeted food commodities from certain countries. Of these, nine exceeded the MRLs and risk assessments were carried out. Seven consignments were destroyed or redespached to the country of origin.

In all cases where non-compliant residues are detected, consumer risk assessments, based on the residue level found and national food consumption data are carried out to estimate the risk to consumers and to guide the follow-up action to be taken. In 2015, three consignments of beans from Nigeria were found to have an unacceptable risk to consumers. These consignments were not released onto the Irish market and were either destroyed or redespached to the country of origin.

All breaches involving produce of domestic origin were investigated to establish the reasons for the breaches and for appropriate follow-up. In addition, all produce with MRL breaches, both domestic and imported, were listed for targeted sampling as part of the follow-up enforcement strategy. Eleven such targeted samples were identified and taken in 2015.

2. BACKGROUND

Pesticides comprise plant protection products and biocides. Plant protection products are required to protect crops and plant products from damage caused by insects, fungi, weeds and other pests. Production and distribution of sufficient volumes of food to meet consumer demands of quality at reasonable price is not possible without their use. Biocidal products are essential for disinfection of surfaces, implements and machinery used in the food industry and to inhibit the action of a range of harmful organisms.

The manner of use of many plant protection and biocidal products requires their release into the environment, resulting in potential exposure of workers, consumers and the general public to such products or to residual traces remaining in food. It is therefore necessary that such products be tightly regulated.

Pesticide residues are regulated in Ireland through the implementation of European legislation, Regulation (EC) No. 396/2005, which establishes EU Maximum Residues Levels (MRLs) for all pesticides in fruit and vegetables, cereals and in food of animal origin. MRLs are the maximum permissible level of pesticide residue allowed in or on a crop that has been treated in line with good agricultural practice (GAP). Regulation (EC) No. 37/2010 establishes other MRLs for certain pesticides used as veterinary products. Commission Directives 2006/125/EC and 2006/141/EC establish certain MRLs for food intended for babies and young infants.

Pesticides are further controlled through legislation implementing Regulation (EC) No. 1107/2009, which requires that all plant protection products, must be registered, before being placed on the market. The Irish registration system specifies the timing, frequency, rates and the crops on which the pesticide may be used. Use of non-registered pesticides is an offence.

Where an MRL is exceeded, a dietary intake calculation is carried out to determine if the residue presents a risk to Irish consumers, both adult and children. The results of the assessments are provided to the FSAI to coordinate a harmonised enforcement approach. Where warranted, for example when the pesticide intake exceeds specified toxicological endpoints; a Rapid Alert¹ is issued by the FSAI and officers of the Pesticide Control Division (PCD) of the Department of Agriculture, Food and the Marine (DAFM) take appropriate enforcement action. This may involve removal of the produce concerned from the market and its destruction at the owner's expense. The Minister may also prosecute offenders or apply administrative fines.

All European Union (EU) countries are required to have their own national monitoring plans and to publish their results. The *'Report of the National Pesticide Residues Control Programme 2015'* provides details of the results obtained during 2015 from a national programme monitoring for the

¹ Regulation (EC) No. 178/2002 of the European Parliament and of the Council of 28th of January 2002.

presence of pesticide residues in food. The results were also sent to the European Food Safety Authority and will be used as part of an EU wide annual report.



Figure 1: Department of Agriculture officer tagging fruit samples for pesticide residue analysis.



Figure 2: Pesticide Control Laboratory with liquid chromatographic systems for sample analysis.

3 PLANNING THE PROGRAMME

The national pesticide residue control programme for pesticide residues is undertaken by the PCD (Pesticide Control Division) with laboratory support provided by the Pesticide Control Laboratory (PCL) of the Department of Agriculture, Food and Marine. The programme implements the requirements of Regulation (EC) No. 396/2005, and takes into account the requirements set out in the EU “*coordinated multi-annual Community control programme for 2015, 2016 and 2017 to ensure compliance with maximum levels of, and to assess the consumer exposure to pesticide residues in and on food of plant and animal origin*”, (Commission Regulation (EC) No. 400/2014)². The requirement of the monitoring of food of animal origin for Directive 96/23/EC is also taken into consideration with respect to the determination of organochlorine and organophosphorus pesticides.

The annual control programme is carried out in accordance with contractual arrangements between the DAFM and the FSAI³ and involves sampling of imported and domestic produce.

The programme ensures that consumers are not exposed to unacceptable pesticide residue levels in food, that plant protection products are correctly applied, and that the unauthorised use of such products in Ireland is controlled.

3.1 Programme design

The programme is designed to monitor different food groups for which MRLs have been established: fruit and vegetables, cereals, food of animal origin and baby food. It involves sampling of produce at distribution outlets, collection, storage, processing or slaughter premises and the analysis of those samples for the presence of residues of up 409 pesticides and 7 PCB congeners.

The planned number of samples (1,545) for the 2015 control programme was agreed with the FSAI. The programme is the primary means of ensuring that plant protection products (pesticides) are used in accordance with *Good Agricultural Practice* and is essential if the misuse of registered products and the use of non-registered products are to be eliminated. Plant protection products, registered under Regulation (EC) No. 1107/2009, can be misused in various ways, e.g. use of excessive dose rates, failure to respect the minimum periods specified between last application and harvest (i.e. pre-harvest intervals) and use for purposes for which they are not authorised (i.e. non-registered uses). When plant protection products are used in accordance with *Good Agricultural Practice*, unacceptable levels of residues should not occur in treated produce.

The pesticide residue monitoring programme for Ireland (Table 1) takes account of the following:

- i. the co-ordinated EU monitoring programme
- ii. the dietary importance of the foodstuff from a consumer point of view

² Commission Regulation (EC) No 400/2014 OJ No L 119/44.

³ Service Contract from 2008 between the Food Safety Authority of Ireland and the Department of Agriculture, Food and the Marine

- iii. the residue history of different sample types
- iv. monitoring results obtained by other Member States
- v. the manner in which the food is handled/processed prior to consumption
- vi. the monitoring programme for food business operators
- vii. the capacity of the laboratory to analyse samples.

Table 1: The 2015 monitoring plan

Food Class	Number	Food commodities
Fruits		
Citrus	110	Clementine, Grapefruit, Lemon, Lime, Mandarin, Minneola, Orange, Pomelo and Satsuma
Pome	100	Apple and Pear
Stone fruit	25	Apricot, Cherry, Nectarine, Peach and Plum
Berries	80	Table grape, Strawberry, Blackberry, Raspberry and Blueberry
Miscellaneous	65	Avocado, Banana, Kiwi, Mango, Papaya, Pineapple and Pomegranate
Vegetables		
Root & tuber	90	Carrot, Parsnip, Potato, Swede, Sweet Potato, Turnip and Yam
Bulb	10	Garlic, Onion, Shallot and Spring Onion
Fruiting	70	Aubergine, Courgette, Cucumber, Pepper, Tomato and Squash
Brassica	55	Broccoli, Cauliflower, Brussels Sprouts, Cabbage and Kale
Leafy	65	Lettuce, Spinach, Herbs and Chard
Legume	40	Beans with pods, Beans without pods, Peas with pods and Peas without pods
Stem	35	Celery, Leek, Asparagus, Artichoke and Rhubarb
Oilseeds	20	Olive Oil and Vegetable Oil
Fungi	15	Cultivated Mushroom
Pulses	5	Pulses
Tea	5	Tea
Processed	50	Orange Juice, Wine, Other Juices and Tinned Fruit and Vegetables
Cereals	100	Barley, Oats, Rice, Rye and Wheat
Food of animal origin	411	Kidney Fats, Eggs, Milk, Honey and Butter
Food for babies	54	Infant Formula, Food for Babies/Young Children, Processed Cereal Based
Enforcement	20	Targeted follow up to breaches and invalid uses in 2014
Import control	120	Targeted under Regulation (EC) No. 669/2009
Total	1545	

4 SAMPLING

4.1 Food of plant origin

Samples were taken using the sampling method outlined in a Commission Directive⁴ on the sampling of products of plant origin for the official control of pesticide residues.

The sampling programme consists of 2 strategies, as follows:

- *Surveillance sampling* of fruit and vegetables processed and organically labelled products. The surveillance sampling strategy involves sampling, in an objective manner and independent of the origin, of the food commodities that are available on the Irish market
- *Enforcement sampling* from import controls and follow up to non-compliant samples, such as MRL breaches.

The enforcement sampling strategy involves sampling of food commodities from specific sources where non-compliance with pesticide legislation is suspected or has been detected previously. It includes Import Controls Regulation (EC) No. 669/2009 which lists commodities and countries of origin for additional targeted sampling.



Figure 3: Fruit samples being selected for analysis within the Pesticide Control Laboratory.

Authorised officers from the Pesticide Control Division (PCD) carry out the sampling of food of plant origin and cereals in accordance with the Commission Sampling Directive 2002/63/EC. This Directive for instance, describes that a minimum of 1 kg or 10 units of a food commodity be taken

⁴ Commission Directive 2002/63(EC)

from a consignment which then constitutes a laboratory sample. The samples are sealed with unique sample identity numbers and brought to the laboratory for analysis.

4.2 Food of animal origin

Random samples of bovine, porcine, ovine, poultry, equine, and venison kidney fat samples are taken at various meat processing plants around the country in accordance with the monitoring plan organised by the Veterinary Medicine Unit of DAFM. The fat samples are taken from individual animals at meat plants by officers of the Veterinary Inspectorate.

In the case of milk, representative samples of particular bulk consignments from milk dairies were taken by officers of the Dairy Inspectorate.

The planned number for food of animal origin was decided in conjunction with the Veterinary Medicine Unit of DAFM, as part of the National Residue Plan required under Directive 96/23/EC⁵. Other types of food of animal produce such as liver and poultry meat were sampled at retail outlets to meet the requirements of the EU multiannual control programme for 2015.

4.3 Infant formula

The samples were taken by officers of the Dairy Science Laboratory of DAFM. The legislation and the MRLs governing these infant samples are set in Commission Directive 2006/141/EC⁶ with MRLs different to those established for the foods of plant and animal origin.



Figure 4: Feeding time with baby infant formula.

⁵ Council Directive 96/23/EC 29th April 1999 OJ No L125/10

⁶ Commission Directive 2006/141/EC of 22 December 2006 on infant formulae and follow-on formulae, 30.12.2006 OJ No L 401

5 TESTING FOR PESTICIDE RESIDUES

5.1 Analytical procedures

All the samples are brought to the Pesticide Control Laboratory which is based at the DAFM Laboratory campus in Backweston, Co. Kildare.



Figure 5: View of the main laboratory complex at Backweston.

On receipt, the samples are logged into the laboratory system and prepared for residue analysis. The fruit and vegetable samples are blended or ground with dry ice (solid carbon dioxide), put into labelled sample bags and stored in a freezer at -18°C prior to extraction and analysis.



Figure 6: Lettuce sample prior to chopping and blending.



Figure 7: Chopped oranges in dry ice prior to blending and packaging.



Figure 8: Frozen laboratory samples.

At the extraction stage, the ground up sample is taken out and a measured amount is extracted with organic solvents, cleaned up if required and injected into one of two chromatographic systems- GC/MS/MS (gas chromatography with tandem mass spectrometry) and/or LC/MS/MS (liquid chromatography with tandem mass spectrometry).



Figure 9: Sample material following the first chemical extraction, ready for clean-up steps.

These analytical techniques allow a large number of pesticide residues to be analysed at the same time. For these multi residue methods (MRM), mixes containing many pesticide standards are injected onto the chromatographic columns and the details of the individual standards eluting from the columns are recorded as unique mass spectral data.



Figure 10: Glass vials containing samples for automated injection onto analytical equipment.



Figure 11: Sample chromatograms being compared with pesticide standards.

When a residue in a laboratory sample is identified by matching the retention time and the mass spectrum pattern with a standard, the amount of the residue in the sample is then quantified by running it against a series of standard mixtures of known concentrations. A select number of samples are also analysed for other pesticides which cannot be analysed using the multi-residue methods outlined above. These single residue methods (SRM) which may employ different extraction methods are used to analyse such pesticides as amitraz, glyphosate, paraquat and dithiocarbamates.



Figure 12: Residue identification and quantitation.

References to the analytical methods used in the laboratory are provided in Annex II at the back of this report.



Figure 13: State-of-the-art advanced facilities are available in the Pesticide Control Laboratory such as high resolution accurate mass spectroscopy.

Some pesticides break down to give metabolites and in several cases these are summed to give a combined residue result and compared against the MRL using the residue definition established in legislation. An example is DDT which can consist of up to 6 breakdown products: o,p'-DDD, p,p'-DDD, o,p'-DDE, p,p'-DDE, o,p'-DDT and p,p'-DDT. The residue definition is the sum of these products expressed as DDT. The overall number of 409 pesticides analysed for in 2015 refer to these summed definitions and not to the individual parent and breakdown products listed in Annex III.

5.2 Quality assurance

It is obligatory that all Official Control laboratories in the EU involved in the testing for pesticide residues be accredited.

In 2015, the PCL was audited by the Irish National Accreditation Board and its accreditation status to the ISO 17025 standard was confirmed and extended. The pesticides in the scope of the accreditation may be viewed on the Irish National Accreditation Board website at www.inab.ie. The PCL registration number is 121T.

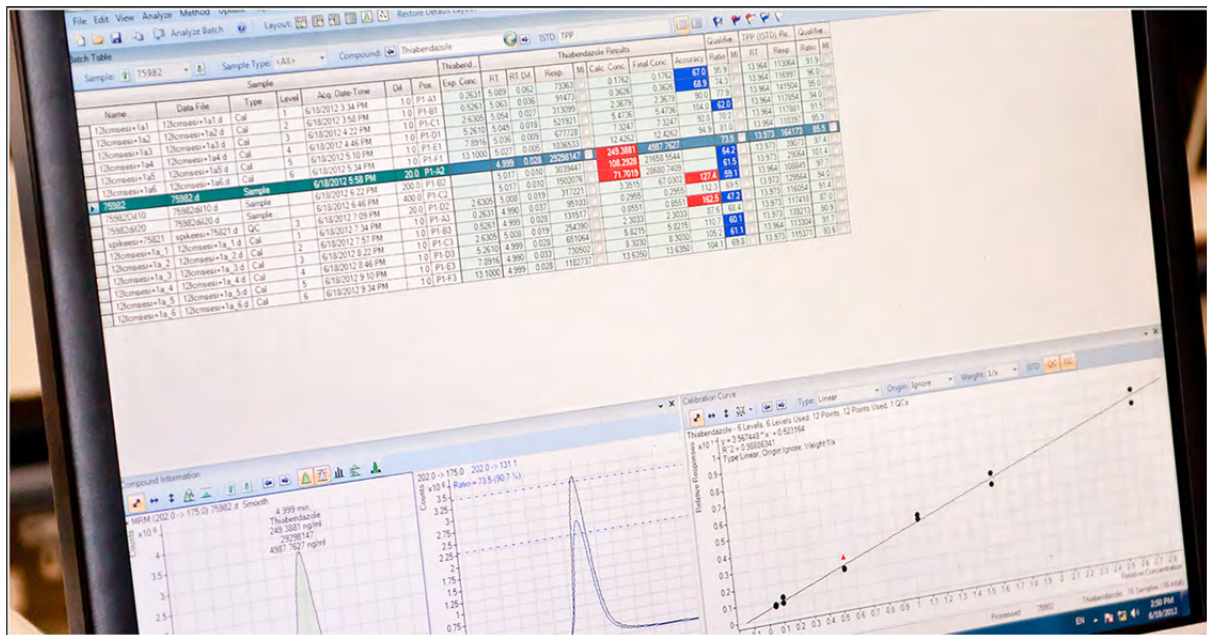


Figure 14: Quality control protocols in pesticide residues.

The laboratory participated in all 4 of the EU Proficiency studies organised, on behalf of the EU Commission, by the European Union Community Reference Laboratories (EU-RL) in the pesticide area. Routine quality assurance procedures are followed within the laboratory in accordance with the requirements specified to maintain accreditation to the ISO 17025 standard.

All food of animal origin samples were also analysed for pesticides, metabolites and PCB marker congeners. PCBs are persistent environmental contaminants which in the past were released into the environment from industrial sources, but whose use has been discontinued for many years. They are included in the control programme as marker substances because of concerns related to their presence in food and their association with dioxins (chlorinated dibenzo-dioxins and furans).

6 RESULTS

6.1 Summary of the analytical results

A total of **1,157** samples were taken for analysis under two different types of sampling –

- **1,077** samples were selected under the surveillance strategy

- **80** samples were taken in a targeted manner under the enforcement strategy.

Table 2 provides a breakdown of the range of food categories and the number of samples taken. The number of samples for some categories fell short of the planned number, due to staffing constraints within the Pesticide Control Laboratory. New staff are being recruited to address this issue. The sampling requirements of the co-ordinated EU monitoring programme were fulfilled.

Table 2: Number of samples achieved in the 2015 control programme

Categories	Achieved	
	Raw	Processed
Surveillance -		
Citrus fruits	85	15
Pome fruits	70	0
Stone fruits	21	0
Berries/Small fruits	52	0
Miscellaneous fruits	52	0
Root/Tuber vegetables	59	0
Fruiting vegetables	59	0
Brassica vegetables	46	0
Leafy vegetables	55	0
Legume vegetables	15	13
Stem/Bulb vegetables	26	0
Oil fruits/seeds	0	15
Fungi	6	0
Cereals	40	0
Animal origin	389	15
Baby foods	0	44
Enforcement –		
Regulation 396/2005	11	0
Regulation 669/2009	69	0
Total – raw and processed		1157

The following tables (3 to 19) provide summary details of all the samples taken in 2015 grouped by the food categories. These categories are based on the way the commodities are arranged and grouped in Annex I of the Residue Regulation (EC) No. 396/2005. The tables

include information on the number of samples containing pesticides residues, country of origin and the most commonly detected pesticide in that food category.

Details of the levels of the pesticide residues detected for all samples above the Limit of Quantitation (LOQ) together with sample identification numbers, country of origin (where known), the relevant MRL for each substance detected and notes on the results are presented in Annex IV of this report. Results are expressed in mg kg^{-1} and are rounded to different significant figures depending on the concentration. These rounding rules do not reflect the precision of the methods but are used by regulatory laboratories in pesticide residues to harmonise the rounding and reporting of pesticide residue results in the EU.

Table 3: Summary results of citrus fruit samples

Commodity	Residues detected			Origin of samples			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Clementine	0	18	4	0	4	18	0
Grapefruit	0	12	0	0	2	10	0
Lemon	1	8	0	0	7	2	0
Limes	0	6	0	0	0	6	0
Mandarin	1	7	0	0	3	5	0
Minneola	0	2	0	0	0	2	0
Orange	2	12	0	0	6	8	0
Orange Juice	12	3	0	0	0	0	15
Pomelo	0	1	0	0	0	1	0
Satsuma	0	9	2	0	1	10	0
Total	16	78	6	0	23	62	15

Citrus fruit samples with pesticide residues detected	<ul style="list-style-type: none"> • 100 citrus samples were analysed 16.0% had no residues detected above the LOQ • 78.0% had residues detected above the LOQ and below the MRL • 6.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 23.0% were from other EU countries and 62.0% from outside the EU • The origin of the raw products could not be confirmed for 15.0% due to the processed nature of the product sampled
Most frequently detected pesticide	<ul style="list-style-type: none"> • Imazalil was detected in 85.0% of the citrus fruit samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 10 different pesticides were found in a clementine sample from South Africa
Pesticide residues above the MRL	<ul style="list-style-type: none"> • 2-phenylphenol in a clementine sample from Morocco at 7.6 mg kg⁻¹. The MRL is 5 mg kg⁻¹ • 2-phenylphenol in a clementine sample from Morocco at 5.9 mg kg⁻¹. The MRL is 5 mg kg⁻¹ • Thiacloprid in a clementine sample from Morocco at 0.049 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹ • Thiacloprid in a clementine sample from Morocco at 0.028 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹ • 2-Phenylphenol in a satsuma sample from Peru at 5.3 mg kg⁻¹. The MRL is 5 mg kg⁻¹ • Chlofenapyr in a satsuma sample from South Africa at 0.022 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • 15 samples (juiced)
Labelled organic	<ul style="list-style-type: none"> • 3 samples with no residue detected above the LOQ

Table 4: Summary results of pome fruit samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Apple	7	41	2	0	29	21	0
Apples Cooking	2	0	0	1	1	0	0
Pear	2	16	0	0	9	9	0
Total	11	57	2	1	39	30	0

Pome fruit samples with pesticide residues detected	<ul style="list-style-type: none"> 70 pome fruit samples were analysed 15.7% had no residues detected above the LOQ 81.4% had residues detected above the LOQ and below the MRL 2.9% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> 1.4% of pome fruit samples were of Irish origin 55.7% were from other EU countries and 42.9% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> Pyraclostrobin was detected in 22.9% of the pome fruit samples
Maximum number of multiple residues	<ul style="list-style-type: none"> Up to 15 different pesticides were found in a pear sample from Portugal
Pesticide residues above the MRL	<ul style="list-style-type: none"> Fenitrothion in an apple sample from Brazil at 0.023 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹ Fenitrothion in an apple sample from Brazil at 0.012 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> No samples
Labelled organic	<ul style="list-style-type: none"> 4 samples with no residue detected above the LOQ

Table 5: Summary results of stone fruit samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Apricots	0	2	0	0	0	2	0
Cherry	1	2	0	0	1	2	0
Nectarine	0	5	0	0	2	3	0
Peach	0	3	0	0	2	1	0
Plum	4	4	0	0	0	8	0
Total	5	16	0	0	5	16	0

Stone fruit samples with pesticide residues detected	<ul style="list-style-type: none"> • 21 stone fruit samples were analysed • 23.8% had no residues detected above the LOQ • 76.2% has residues detected above the LOQ and below the MRL • 0.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • No stone fruit samples were of Irish origin • 23.8% were from other EU countries and 76.2% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Fludioxonil was detected in 42.9% of the stone fruit samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 5 different pesticides were found in an apricot sample from South Africa, a cherry sample from Chile and a peach sample from Spain
Pesticide residues above the MRL	<ul style="list-style-type: none"> • No stone fruit sample with residues detected above the MRL
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 6: Summary results of berries and small fruit samples

Commodity	Residues Detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Blackberry	0	2	0	0	0	2	0
Blueberry	5	5	0	0	3	7	0
Raspberry	2	2	0	0	3	1	0
Strawberry	0	16	0	10	5	1	0
Table Grape	3	17	0	0	2	18	0
Total	10	42	0	10	13	29	0

Berries and small fruit samples with pesticide residues detected	<ul style="list-style-type: none"> • 52 berries and small fruit samples were analysed • 19.2% had no residues detected above the LOQ • 80.8% had residues detected above the LOQ and below the MRL • 0.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 19.2% of berries and small fruit samples were of Irish origin • 25.0% were from other EU countries and 55.8% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Fenhexamid was detected in 34.6% of berries and small fruit samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 14 different pesticides were found in a strawberry sample from Ireland
Pesticide residues above the MRL	<ul style="list-style-type: none"> • No berries or small fruit sample with residues detected above the MRL
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 7: Summary results of miscellaneous fruit samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Avocados	2	2	0	0	1	3	0
Banana	4	11	0	0	0	15	0
Dates	1	0	0	0	0	1	0
Dragon Fruit	0	1	0	0	0	1	0
Granadilla	0	0	1	0	0	1	0
Kiwi	6	4	0	0	7	3	0
Kiwi Berry	1	0	0	0	0	1	0
Mangoes	1	8	0	0	0	9	0
Mangosteens	0	1	0	0	0	1	0
Papaya	0	1	1	0	0	2	0
Passion Fruit	0	0	1	0	0	1	0
Persimmon	1	0	0	0	0	1	0
Pineapples	0	2	0	0	0	2	0
Pomegranate	1	2	0	0	1	2	0
Total	17	32	3	0	9	43	0

Miscellaneous fruit samples with pesticide residues detected	<ul style="list-style-type: none"> • 52 miscellaneous fruit samples were analysed • 32.7% had no residues detected above the LOQ • 61.5% had residues detected above the LOQ and below the MRL • 5.8% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • No miscellaneous fruit of Irish origin were sampled • 17.3% were from other EU countries and 82.7% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Thiabendazole were detected in 32.7% of the miscellaneous fruit samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 5 different pesticides, with 4 of these exceeding the MRLs, were found in a granadilla from Colombia and a banana sample from Honduras
Pesticide residues above the MRL	<ul style="list-style-type: none"> • Carbendazim in a granadilla sample from Colombia at 0.18 mg kg⁻¹. The MRL is 0.1 mg kg⁻¹. The same sample also contained Chlorothalonil at 0.026 mg kg⁻¹, flusilazole at 0.011 mg kg⁻¹ and Lambda cyhalothrin at 0.022 mg kg⁻¹. The MRLs are 0.01 mg kg⁻¹, 0.01 mg kg⁻¹ and 0.02 mg kg⁻¹ respectively • Imidacloprid in a papaya sample from Brazil at 0.055 mg kg⁻¹. The MRL is 0.05 mg kg⁻¹ • Pyrimethanil in a passion fruit sample from Colombia at 0.11 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • 4 samples with no residue detected above the LOQ

Table 8: Summary results of root and tuber vegetable samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Carrots	10	9	0	7	12	0	0
Parsnips	3	8	0	9	2	0	0
Potatoes	4	11	1	11	5	0	0
Radishes	1	0	0	0	0	1	0
Swedes	4	2	0	6	0	0	0
Sweet Potatoes	1	4	0	0	1	4	0
Turnips	1	0	0	1	0	0	0
Total	24	34	1	34	20	5	0

Root and tuber vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> • 59 root and tuber samples were analysed • 40.7% had no residues detected above the LOQ and 57.6% had residues detected above the LOQ and below the MRL • 1.7% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 57.6% of root and tuber samples were of Irish origin • 33.9% were from other EU countries and 8.5% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Chlorpropham was detected in 15.3% of root and tuber samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 5 different pesticides were found in a parsnip sample from Spain
Pesticide residues above the MRL	<ul style="list-style-type: none"> • Trifluralin in a potato sample from Ireland at 0.016 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • 3 samples with no residue detected above the LOQ

Table 9: Summary results of fruiting vegetable samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Aubergines	6	6	0	0	12	0	0
Chilli pepper	0	1	0	0	0	1	0
Courgettes	0	4	0	1	3	0	0
Cucumbers	2	6	0	1	7	0	0
Melons	0	1	0	0	0	1	0
Pepper	0	16	0	0	16	0	0
Summer Squash	0	1	1	0	0	2	0
Tomato	4	9	0	2	10	1	0
Watermelons	0	1	0	0	0	1	0
Winter Squash	1	0	0	0	1	0	0
Total	13	45	1	4	49	6	0

Fruiting vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> 59 fruiting vegetable samples were analysed 22.0% had no residues detected above the LOQ and 76.3% had residues detected above the LOQ and below the MRL 1.7% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> 6.8% of fruiting vegetable samples were of Irish origin 83.1% were from other EU countries and 10.2% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> Imidacloprid was detected in 17.2% of the fruiting vegetable samples
Maximum number of multiple residues	<ul style="list-style-type: none"> Up to 8 different pesticides were found in a tomato sample from Morocco.
Pesticide residues above the MRL	<ul style="list-style-type: none"> Dieldrin in a summer squash sample from South Africa at 0.054 mg kg⁻¹. The MRL is 0.05 mg kg⁻¹. The same sample also contained ddac at 0.17 mg kg⁻¹. The MRL is 0.1 mg kg⁻¹
Processed	<ul style="list-style-type: none"> No samples
Labelled organic	<ul style="list-style-type: none"> 4 samples with no residue detected above the LOQ

Table 10: Summary results of brassica vegetable samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Broccoli	11	5	0	4	9	3	0
Brussels Sprouts	0	1	0	1	0	0	0
Cauliflower	8	1	0	4	5	0	0
Head Cabbage	6	6	1	8	5	0	0
Kale	3	0	2	2	3	0	0
Pak Choi	0	2	0	0	2	0	0
Total	28	15	3	19	24	3	0

Brassica vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> 46 brassica vegetable samples were analysed 60.9% had no residues detected above the LOQ 32.6% had residues detected above the LOQ and below the MRL 6.5% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> 41.3% of brassica vegetable samples were of Irish origin 52.2% were from other EU countries and 6.5% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> Chlorothalonil was detected in 10.9% of the brassica vegetable samples
Maximum number of multiple residues	<ul style="list-style-type: none"> Up to 6 different pesticides were found in a Pak Choi sample from Spain.
Pesticide residues above the MRL	<ul style="list-style-type: none"> Prothioconazole in a head cabbage sample from Ireland at 0.29 mg kg⁻¹. The MRL is 0.1 mg kg⁻¹ Tebuconazole in a kale sample from Ireland at 0.1 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹ Propyzamide in a kale sample from Spain at 0.026 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹
Processed	<ul style="list-style-type: none"> No samples
Labelled organic	<ul style="list-style-type: none"> 2 samples with no residue detected above the LOQ

Table 11: Summary results of leafy vegetable and herb samples

Commodity	Residues detected			Source			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Lettuce	5	31	1	22	15	0	0
Rocket	0	5	1	0	6	0	0
Scarole	0	1	0	0	1	0	0
Spinach	4	3	0	0	7	0	0
Water Cress	0	1	0	0	1	0	0
Chives	0	1	0	0	0	1	0
Mint	0	1	0	0	1	0	0
Rosemary	1	0	0	0	1	0	0
Total	10	43	2	22	32	1	0

Leafy vegetable and herb samples with pesticide residues detected	<ul style="list-style-type: none"> • 55 leafy vegetable and herb samples were analysed • 18.2% had no residue detected above the LOQ • 78.2% had residues detected above the LOQ and below the MRL • 3.6% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 40.0% of leafy vegetable and herb samples were of Irish origin • 58.2% were from other EU countries and 1.8% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Boscalid was detected in 41.8% of the leafy vegetable and herb samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 9 different pesticides were found in a lettuce sample from Ireland
Pesticide residues above the MRL	<ul style="list-style-type: none"> • Dimethoate in a lettuce sample from Ireland at 0.44 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹. The same sample also contained omethoate at 0.055 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹. This is expressed as dimethoate and added to dimethoate to give a total residue of 0.499 mg kg⁻¹ • Acetamiprid in a rocket sample from Italy at 8.2 mg kg⁻¹. The MRL is 3 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • 1 sample with no residue detected above the LOQ

Table 12: Summary results of legume vegetable samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Beans with Pods	2	1	1	0	0	4	0
Peas with Pods	4	5	0	0	1	8	0
Peas without Pods	10	5	0	0	2	0	13
Total	16	11	1	0	3	12	13

Legume vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> • 28 legume vegetable samples were analysed • 57.1% had no residue detected above the LOQ • 39.3% had residues detected above the LOQ and below the MRL • 3.6% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • No legume vegetables of Irish origin were sampled • 10.7% were from other EU countries and 42.9% from outside the EU • The origin of the raw products could not be confirmed for 46.4% due to the processed nature of the product sampled
Most frequently detected pesticide	<ul style="list-style-type: none"> • Azoxystrobin and carbendazim was detected in 14.3% of legume vegetable samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 7 different pesticides, with 2 of these exceeding the MRLs, were found in a sample of beans with pods from Egypt
Pesticide residues above the MRL	<ul style="list-style-type: none"> • Flusilazole in a sample of beans with pods from Egypt at 0.017 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained propargite at 0.14 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • 13 samples (frozen)
Labelled organic	<ul style="list-style-type: none"> • 1 sample with no residue detected above the LOQ

Table 13: Summary results of stem and bulb vegetable samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Asparagus	4	0	0	0	1	3	0
Celery	0	10	0	1	9	0	0
Fennel	1	3	0	0	4	0	0
Globe Artichokes	1	0	0	0	1	0	0
Leek	3	1	0	2	2	0	0
Spring Onions	2	1	0	1	0	2	0
Total	11	15	0	4	17	5	0

Stem vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> • 26 stem and bulb vegetable samples were analysed • 42.3% had no residues detected above the LOQ • 57.7% had residues detected above the LOQ and below the MRL • 0.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 15.4% of stem and bulb vegetable samples were of Irish origin • 65.4% were from other EU countries and 19.2% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Difenoconazole was detected in 30.8% of the stem and bulb vegetable samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 5 different pesticides were found in a celery sample from Spain
Pesticide residues above the MRL	<ul style="list-style-type: none"> • No stem or bulb vegetable sample with residues detected above the MRL
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • 2 samples with no residue detected above the LOQ

Table 14: Summary results of fungi and oil fruit/seed samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Cultivated mushroom	1	5	0	5	1	0	0
Olive oil	12	3	0	0	8	0	7
Total	13	8	0	5	9	0	7

Fungi, oilseed and spice samples with pesticide residues detected	<ul style="list-style-type: none"> • 21 fungi and oil fruit/seed samples were analysed • 61.9% had no residues detected above the LOQ • 38.1% had residues detected above the LOQ and below the MRL • 0.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 23.8% of fungi and oil fruit/seed samples were of Irish origin • 42.9% were from other EU countries • The origin could not be confirmed for 33.3% due to the processed nature of the product sampled
Most frequently detected pesticide	<ul style="list-style-type: none"> • Mepiquat and prochloraz was detected in 50% of the mushroom samples analysed
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 3 different pesticides were found in a mushroom sample from Ireland and in an olive oil sample of unknown origin
Pesticide residues above the MRL	<ul style="list-style-type: none"> • No fungi or oil fruit/seed samples with residues detected above the MRL
Processed	<ul style="list-style-type: none"> • All 15 oil fruit/seed samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 95: Summary results of cereal samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Barley	0	10	0	10	0	0	0
Oats	3	2	0	5	0	0	0
Rice	1	9	0	0	1	7	2
Wheat	1	14	0	9	6	0	0
Total	5	35	0	24	7	7	2

Cereal samples with pesticide residues detected	<ul style="list-style-type: none"> • 40 cereal samples were analysed • 12.5% had no residue detected above the LOQ • 87.5% had residues detected above the LOQ and below the MRL • 0.0% with residues above the MRL
Origin of samples	<ul style="list-style-type: none"> • 60.0% of cereal samples were of Irish origin • 17.5% were from other EU countries and 17.5% from outside the EU • The origin could not be confirmed for 5.0% of the samples
Most frequently detected pesticide	<ul style="list-style-type: none"> • Chlormequat was detected in 60% of the 35 cereal samples analysed specifically for the chlormequat type pesticides
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 5 different pesticides were found in a rice sample from India and in a wheat sample from the United Kingdom
Pesticide residues above the MRL	<ul style="list-style-type: none"> • No cereal samples with residues detected above the MRL
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 16: Summary results of food of animal origin samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL*	Ireland	EU	TC	Unknown
Bovine Kidney Fat	117	5	0	122	0	0	0
Cervine Kidney Fat	8	3	0	11	0	0	0
Equine Kidney Fat	7	1	0	8	0	0	0
Ovine Kidney Fat	73	7	0	80	0	0	0
Porcine Kidney Fat	60	1	0	61	0	0	0
Poultry Kidney Fat	18	7	0	25	0	0	0
Butter	13	2	0	12	1	0	2
Chicken Egg	15	0	0	15	0	0	0
Cows Milk	53	0	0	53	0	0	0
Goats Milk	2	0	0	2	0	0	0
Honey	12	0	0	11	0	0	1
Total	378	26	0	400	1	0	3

>MRL* The MRLs from Regulation (EC) No 37/2010 are also applied to food of animal origin

Food of animal origin samples with pesticide residues detected	<ul style="list-style-type: none"> • 404 food of animal origin samples were analysed • 93.6% had no residue detected above the LOQ • 6.4% had residues detected above the LOQ and below the MRL
Origin of samples	<ul style="list-style-type: none"> • 99.0% of the food of animal origin samples were of Irish origin • 1.0% were from other EU countries or of unknown origin
Most frequently detected pesticide	<ul style="list-style-type: none"> • 2-phenylphenol was detected in 11 of the food of animal origin samples
Maximum number of multiple residues	<ul style="list-style-type: none"> • 2 pesticides were found in one ovine kidney fat sample
Pesticide residues above the MRL	<ul style="list-style-type: none"> • There was no MRL exceedance
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 10: Summary results of baby food samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Cereal baby food	10	0	0	0	0	0	10
Infant formula	34	0	0	34	0	0	0

Baby food samples with pesticide residues detected	<ul style="list-style-type: none"> 44 baby food samples were analysed 100% had no residue detected above the LOQ
Origin of samples	<ul style="list-style-type: none"> 77.3% of the baby food samples were of Irish origin The origin of the raw products could not be confirmed for 22.7% due to the processed nature of the product sampled
Most frequently detected pesticide	<ul style="list-style-type: none"> No pesticides detected
Maximum number of multiple residues	<ul style="list-style-type: none"> No pesticides detected
Pesticide residues above the MRL	<ul style="list-style-type: none"> No baby food sample with residues detected above the MRL
Processed	<ul style="list-style-type: none"> All 44 samples were processed
Labelled organic	<ul style="list-style-type: none"> 3 samples with no residue detected above the LOQ

Table 11: Summary results of targeted and follow up enforcement samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Apple	0	1	0	0	0	1	0
Carrots	0	1	0	0	1	0	0
Cultivated mushroom	0	0	1	1	0	0	0
Head Cabbage	0	3	0	2	0	1	0
Kale	0	2	0	2	0	0	0
Lettuce	0	1	0	1	0	0	0
Pomegranate	1	0	0	0	0	1	0
Rocket	0	1	0	0	1	0	0
Total	1	9	1	6	2	3	0

Enforcement samples with pesticide residues detected	<ul style="list-style-type: none"> • 11 enforcement samples were analysed • 9.1% had no residue detected above the LOQ • 81.8% had residues detected above the LOQ and below the MRL • 9.1% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 54.5% of enforcement samples were of Irish origin • 18.2% were from other EU countries and 27.3% from outside the EU
Most frequently detected pesticide	<ul style="list-style-type: none"> • Not relevant due to diverse range of commodities
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 7 different pesticides were found in a head cabbage sample from Ireland and in a kale sample from Ireland
Pesticide residues above the MRL	<ul style="list-style-type: none"> • Bendiocarb in a cultivated mushroom sample from Ireland at 0.015 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹
Processed	<ul style="list-style-type: none"> • No samples
Labelled organic	<ul style="list-style-type: none"> • No samples

Table 12: Summary results of import control samples

Commodity	Residues detected			Origin			
	<LOQ	<MRL	>MRL	Ireland	EU	TC	Unknown
Dried Beans (Nigeria)	0	0	5	0	0	5	0
Beans with Pods (Kenya)	7	8	0	0	0	15	0
Peas with Pods (Kenya)	2	13	1	0	0	16	0
Pepper (Turkey)	1	0	0	0	0	1	0
Strawberry (Egypt)	7	19	2	0	0	28	0
Tea (China)	3	0	1	0	0	4	0
Total	20	40	9	0	0	69	0

BIP samples with pesticide residues detected	<ul style="list-style-type: none"> 69 import control samples were analysed 29.0% had no residues detected above the LOQ 58.0% had residues greater than the LOQ and below the MRL 13.0% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> 100% of samples were from outside the EU – China, Egypt, Kenya, Nigeria and Turkey as listed in Regulation (EC) No. 669/2009
Most frequently detected pesticide	<ul style="list-style-type: none"> Iprodione detected in 17.4% of import control samples
Maximum number of multiple residues	<ul style="list-style-type: none"> Up to 7 different pesticides, with 2 of these exceeding the MRLs, were found in a strawberry sample from Egypt
Pesticide residues above the MRL	<ul style="list-style-type: none"> Dichlorvos in dried beans from Nigeria at 6.3 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained trichlorfon at 8.4 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹ Dichlorvos in dried beans from Nigeria at 0.17 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained trichlorfon at 0.66 mg kg⁻¹, Cypermethrin at 0.86 mg kg⁻¹ and dimethoate at 0.038 mg kg⁻¹. The MRLs are 0.01 mg kg⁻¹, 0.05 mg kg⁻¹ and 0.02 mg kg⁻¹ respectively Dichlorvos in dried beans from Nigeria at 0.11 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained trichlorfon at 0.35 mg kg⁻¹ and dimethoate at 0.022 mg kg⁻¹. The MRLs are 0.01 mg kg⁻¹ and 0.02 mg kg⁻¹ respectively Dichlorvos in dried beans from Nigeria at 0.10 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained trichlorfon at 0.34 mg kg⁻¹ and dimethoate at 0.037 mg kg⁻¹. The MRLs are 0.01 mg kg⁻¹ and 0.02 mg kg⁻¹ respectively Chlorpyrifos in dried beans from Nigeria at 0.093 mg kg⁻¹. The MRL is 0.05 mg kg⁻¹. The same sample also contained dimethoate at 0.026 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹ Dimethoate in mangetout with pods samples from Kenya at 0.021 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹ Propamocarb in strawberries from Egypt at 0.055 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹. The same sample also contained pyridalyl at 0.064 mg kg⁻¹. The MRL is 0.01 mg kg⁻¹ Methomyl in strawberries from Egypt at 0.1 mg kg⁻¹. The MRL is 0.02 mg kg⁻¹. Pyridaben in tea from China at 0.34 mg kg⁻¹. The MRL is 0.05 mg kg⁻¹.
Processed	<ul style="list-style-type: none"> No samples
Labelled organic	<ul style="list-style-type: none"> 2 tea samples with no residue detected above the LOQ

6.2 Key findings of fruit and vegetable results

In the 2015 programme a total of 589 samples were analysed using the surveillance or random sampling strategy. When compared to previous years, the number of samples with residues detected above the MRL (3.2%) is slightly increased from 2014 (2.6%), 2013 (1.8%) and 2012 (1.2%). The majority of the breaches occur in samples from third countries with different regulations controlling the use of pesticides and where application for higher import MRLs or import tolerances in the EU have yet to be applied for or not granted.

The number of fruit and vegetable samples with detectable residues above the LOQ has remained stable at 67% in 2015. The number of pesticides being detected has remained relatively constant even with new pesticides added to the analytical methods annually.

As in the previous 3 years, **imazalil** which is mainly used to prevent decay of citrus during storage and transportation was the most commonly detected pesticide in the fruit and vegetables samples during 2014 using the multi residue methods.

Table 13 gives a summary of the findings of the fruit and vegetables analysed in 2015, in particular the most frequently detected pesticides.

Table 13: Summary of fruit and vegetables taken in the surveillance programme

Fruit and vegetable samples with pesticide residues detected	<ul style="list-style-type: none"> • 589 fruit and vegetable surveillance samples were analysed • 29.5% had no residues detected above the LOQ • 67.2% had residues detected above the LOQ and below the MRL • 3.2% had residues detected above the MRL
Origin of samples	<ul style="list-style-type: none"> • 16.8% of fruit and vegetable samples were of Irish origin • 41.3% were from EU countries and 36.0% from outside the EU • The origin could not be confirmed for 5.9% due to the processed nature of the product sampled
Most frequently detected pesticides	<ul style="list-style-type: none"> • Detection rates in all fruit and vegetables imazalil 19%, thiabendazole 14%, pyrimethanil 13%, boscalid 11%; azoxystrobin 10%, chlorpyrifos 10%, fludioxonil 10%
Maximum number of multiple residues	<ul style="list-style-type: none"> • Up to 14 different pesticides were found in a strawberry sample from Ireland
Pesticide residues above the MRL	<ul style="list-style-type: none"> • 19 samples exceeded the MRL. Details are in chapter 7 of this report
Processed	<ul style="list-style-type: none"> • 43 samples
Labelled organic	<ul style="list-style-type: none"> • 24 samples

6.3 Key findings of the cereal sample results

Pesticide residues were found in 35 (87.5%) of the 40 cereal samples that were taken in the surveillance programme but there were no samples where the MRL was exceeded. This is a higher frequency than that found in previous years – 2014 (70%); 2013 (65%) and 2012 (55%). This is possibly due to the increased use of the single residue methods being used to analyse the cereal samples.

Chlormequat, authorised as a growth regulator, was the most frequently detected pesticide and was detected in 60% of the cereal samples specifically analysed for chlormequat and other “quat” compounds. **Glyphosate** was detected in 10 out of 34 samples analysed using the selective method for that compound. 60% of the cereal samples taken were of domestic origin.

6.4 Key findings of the food of animal origin sample results

The percentage of food of animal origin samples with detectable residues remained relatively low over the past four years: - 6% in 2012, 5% in 2013, 5% in 2014 and 6% in 2015 despite an increase in the analytical scope and the increased in sensitivity of the methods used for these samples.

2-phenylphenol was the most commonly detected pesticide and was found in 11 of the 404 the food of animal origin samples. The use of citrus pulp in animal feeds may account for the presence of 2-phenyl phenol in these food of animal origin samples as this pesticide is commonly used as a post harvest fungicide on citrus. 99% of the food of animal origin samples taken were of domestic origin.

6.5 Key findings of baby food sample results

In line with previous years there continued to be no residues detected in the infant and follow-on formula samples analysed in 2015.

7 MRL BREACHES

7.1 Types of breaches

Twenty nine (2.5%) of the 1155 samples taken in 2015 were found to contain residues above the Maximum Residue Levels set in Regulation (EC) 396/2005. These breaches all related to fruit and vegetables samples from both the surveillance and enforcement sampling strategies.

Table 14 shows the breakdown of the residues found in all samples by food types, total sample number and % of samples without residues above the LOQ, residues below the MRL and the number exceeding the MRL from the two sampling programmes. As expected, the highest rate of MRL breaches occurred with the samples taken in a targeted manner on samples with known history of non-compliances.

Table 14: Summary of all food types with residues and MRL breaches in 2015

Sampling programmes	Food types	Numbers	< LOQ		<MRL		> MRL	
Surveillance	Fruit Veg	589	174	29.6%	396	67.2%	19	3.2%
Surveillance	Cereal	40	5	12.5%	35	87.5%	0	0%
Surveillance	Animal origin	404	378	93.6%	26	6.4%	0	0%
Surveillance	Baby food	44	44	100.0%	0	0.0%	0	0%
Enforcement	Fruit Veg	11	1	9.1%	9	81.8%	1	9.1%
Import Controls	Fruit Veg	69	20	29.0%	40	58.0%	9	13.0%
Total		1157	622	53.8%	506	43.7%	29	2.5%

Table 15 lists all the breaches with details of the origin, commodity, and pesticide detected above the MRL and the residues found. The MRLs set at the LOQ leading to “technical” breaches are marked by an asterisk. When the parent compound and the breakdown product are detected in the same sample, the residues are summed and reported according to the legal residue definitions.

The majority of the MRL breaches were found to be technical where authorisation has not been granted in the EU or an import tolerance have yet to be granted for registered uses outside the EU.

Table 15: Details of the MRL breaches in 2015

	Source	Commodity	Sample no	Pesticide	MRL	Residue
Surveillance						
Ireland	Ireland	Head Cabbage	851284	Prothioconazole	0.1	0.29
		Kale	851041	Tebuconazole	0.02*	0.1
		Lettuce	851436	Dimethoate	0.02*	0.44
				Omethoate	0.02*	0.055
				Dimethoate (sum)	0.02*	0.499
EU		Potatoes	851210	Trifluralin	0.01*	0.016
	Italy	Rocket	851136	Acetamiprid	3.0	8.2
	Spain	Kale	851114	Propyzamide	0.02*	0.026
Third County	Brazil	Apple	851213	Fenitrothion	0.01*	0.023
			851355	Fenitrothion	0.01*	0.012
		Papaya	851052	Imidacloprid	0.05*	0.055
	Colombia	Granadilla	851207	Carbendazim	0.1*	0.18
				Chlorothalonil	0.01*	0.026
				Flusilazole	0.01*	0.01
				Lambda-cyhalothrin	0.02*	0.022
		Passion Fruit	850944	Pyrimethanil	0.01*	0.11
	Egypt	Beans with Pods	851183	Flusilazole	0.01*	0.017
				Propargite	0.01*	0.14
	Morocco	Clementine	850942	2-phenylphenol	5.0	5.9
			850984	2-phenylphenol	5.0	7.6
			850985	Thiacloprid	0.02*	0.028
			851044	Thiacloprid	0.02*	0.049
	Peru	Satsuma	851415	2-phenylphenol	5.0	5.3
	South Africa	Satsuma	851263	Chlorfenapyr	0.01*	0.022
		Summer Squash	851379	DDAC	0.1	0.17
				Dieldrin	0.05	0.054
Enforcement						
Ireland	Ireland	Cultivated Mushrooms	851603	Bendiocarb	0.01*	0.015
Third Country	China	Tea	851557	Pyridaben	0.05*	0.34
	Egypt	Strawberries	851650	Propamocarb	0.01*	0.055
				Pyridalyl	0.01*	0.064
			851660	Methomyl	0.02*	0.1
	Kenya	Mangetout with Pods	851350	Dimethoate	0.02*	0.021
	Nigeria	Dried Beans	851294	Dichlorvos	0.01*	6.3
				Trichlorfon	0.01*	8.4
			851296	Cypermethrin	0.05*	0.86
				Dichlorvos	0.01*	0.17
				Dimethoate	0.02*	0.038
				Trichlorfon	0.01*	0.66
			851297	Dichlorvos	0.01*	0.11
				Dimethoate	0.02*	0.022
				Trichlorfon	0.01*	0.35
			851298	Dichlorvos	0.01*	0.1
				Dimethoate	0.02*	0.037
				Trichlorfon	0.01*	0.34
			851320	Chlorpyrifos	0.05*	0.093
				Dimethoate	0.02*	0.026

*The MRL at the LOQ.

7.2 Risk Assessments

7.2.1 Acute assessment

An acute risk assessment for Irish consumers, adult and children, was conducted for each MRL exceedance detected in 2015.

The risk assessment is based on the following factors:

- A large portion consumed over a 24 hour period. A very high percentile, 97.5%, is used from the food surveys.
- Body weight of the consumer.
- A variability factor to account for possible uneven distribution of the residues in a consignment or food lot. A factor of 5 is normally used. The mean residue detected in a laboratory sample is multiplied by this factor and is applied to an average weight of a food unit.
- ARfD - Acute reference dose mg /kg bw - toxicological endpoint over a 24 hour period.
- Residue found in the sample exceeding the MRL.
- Refinement such as peel/pulp factors. In the post-harvest application such as dipping citrus fruit in Imazalil, a refinement factor can be used since most of the pesticide resides on the peel and the laboratory result is based on the whole fruit.

The results of the assessments are provided to the FSAI to coordinate a harmonised enforcement approach.

It should be stressed that these assessments based on the combination of a large food portion, highest residue found and a highly uneven distribution of the residue is a very conservative assessment leading to an overestimation of the real exposure of the Irish consumers to pesticide intakes.

The acute or short term pesticide intake assessment for the MRL breaches indicate that the only breaches that exceeded the ARfD related to three consignments of dried beans imported from Nigeria. These beans were not released onto the Irish market but were either destroyed or redespached back to Nigeria. As a result of the number of exceedances in relation to dried beans imported into the EU from Nigeria in 2015 the import of dried beans into the EU was prohibited from 20 June 2015. The acute pesticide intake for all other products which had breaches indicate that all other breaches were below the 100% ARfD and therefore are deemed not to represent a short term intake safety concern. The highest short term intake in the routine surveillance samples was estimated for a rocket sample containing **acetamiprid** with an intake equivalent to 58% of the ARfD for children.

7.2.2 Chronic Assessment

A chronic risk assessment for Irish consumers, adult and children, is conducted for each MRL exceedance. The calculation of the chronic exposure assessment is based on

- Mean portion of food consumed
- Body weight of the consumer
- ADI (acceptable daily intake)
- Residue found in the sample exceeding the MRL

It is assumed that the consumer is eating the same commodity with the residue leading to the MRL breach on a daily basis over a lifetime. This assessment is an overestimate of the real exposure to pesticides.

The only sample tested for which there was a chronic intake exceedance was for one of the samples of dried beans from Nigeria which also had an acute intake exceedance and was not released onto the Irish market. The highest long term intake in the routine surveillance samples was estimated for a summer squash sample containing **dieldrin** with an intake equivalent to 6% of the ADI for adults.

8 ENFORCEMENT ACTIONS

Enforcement action is taken when an unacceptable risk to consumers is identified, or where repeated occurrence of excessive residue levels in commodities from the same source occurs. As part of the enforcement programme, commodities of specific country of origin are targeted for further attention. Targeted sampling of produce in the monitoring plan that has previously been found to be in breach of established MRLs is the prime means of determining whether violations are isolated incidents or are a result of systematic pesticides abuse. The enforcement sampling programme is designed to eliminate such abuses and to ensure that they are not repeated.

8.1 Enforcement actions on domestic samples

The PCD Enforcement Officer investigates all MRL breaches in samples of domestic origin. In 2015, five MRL breaches were detected in produce of domestic origin (kale, potatoes, head cabbage, lettuce and cultivated mushrooms).

With respect to each reported breach, the following summarises the findings of the follow-up investigation;

- tebuconazole detected on kale; most likely source of contamination was deemed to be the use of a sprayer containing residues of tebuconazole remaining from a previous application.
- trifluralin detected on potatoes; (this was also an Invalid Use) – most likely source of contamination was deemed to be residues of trifluralin remaining in the soil from use on previous crops of broccoli and carrots.
- prothioconazole detected on head cabbage; most likely source of contamination was deemed to be residues of prothioconazole remaining in the sprayer after application to spring barley.
- dimethoate and omethoate detected on lettuce; it was found that product containing dimethoate was used illegally, and records of use indicated that other products were used at rates not in compliance with label recommendations. Business operator was issued with 2 Fixed Penalty Notices.
- bendiocarb detected on cultivated mushrooms; the most likely cause of the residue breach is condensation forming on the inside of the mushroom houses, and dripping residues of *bendiocarb* onto mushrooms, or alternatively rivulets of condensation/*bendiocarb* running down the sides of the house, and seeping into beds or trays in contact with the sidewalls of the tunnels, thereby contaminating the growing medium.

As a result of MRL breaches and invalid uses detected in 2014, a number of follow up targeted samples were taken from domestic growers in 2015.

8.2 Enforcement actions on imported samples

With respect to MRL breaches detected in imported samples, it was not always possible to establish the reasons for breaches in the absence of details on the pesticides authorised for use in the countries of origin. Where an imported product contained a residue in excess of an MRL, the authorities in the country of origin and the Irish importer were informed of the MRL breach. They are also informed that further produce from the same source encountered on the Irish market would be further targeted for analysis and, if necessary, subjected to statutory actions.

Following MRL breaches in 2014, targeted samples of carrots from Spain, pomegranate from India and apples from Brazil were found to be in compliance with MRL legislation. A rocket sample from Italy was also taken as follow-up to an MRL breach in 2015.

Commission Regulation (EC) No. 669/2009 imposes additional controls on imports from third countries known or considered to be a risk from elevated levels of pesticide residues. Annex I to this legislation lists countries and commodities subject to this legislation, and also details sampling and analysis frequencies. Produce subject to these additional controls can only enter the country through Designated Points of Entry, which for Ireland (with respect to pesticide residues) are Dublin Port and Dublin Airport. In 2015, okra and curry leaves from India were subject to more stringent control under Commission Implementing Regulations (EU) No 91/2013 and (EU) No 885/2014.

Based on the laboratory result (and risk assessment where appropriate), a consignment is either released (no issues arising), redespached or destroyed under supervision. The latter options come into play when a MRL is breached with a 50% measurement of uncertainty, and/or a risk assessment indicates that a health concern cannot be ruled out. In all instances a health concern takes precedence over uncertainty guidelines.

In 2015, 69 consignments were randomly selected and analysed for pesticide residues. A total of 9 samples were found to breach relevant MRLs.

Table 23 outlines the actions taken for each of these breaches.

Table 16: Import Controls - MRL breaches and enforcement action taken in 2015

Lab ID	Country of Origin	Commodity	Action taken
851294	Nigeria	Dried Beans	Risk identified. Consignment redespached back to Nigeria
851296	Nigeria	Dried Beans	Risk identified. Consignment redespached back to Nigeria
851297	Nigeria	Dried Beans	Risk identified. Consignment destroyed
851298	Nigeria	Dried Beans	No risk identified. Consignment destroyed as residue > MRL when 50% measurement uncertainty applied
851320	Nigeria	Dried Beans	No risk identified. Consignment released as residue < MRL when 50% measurement uncertainty applied
851350	Kenya	Peas with Pods	No risk identified. Consignment released as residue < MRL when 50% measurement uncertainty applied
851557	China	Tea	No risk identified. Consignment destroyed as residue > MRL when 50% measurement uncertainty applied
851650	Egypt	Strawberry	No risk identified. Consignment destroyed as residue > MRL when 50% measurement uncertainty applied
851660	Egypt	Strawberry	No risk identified. Consignment destroyed as residue > MRL when 50% measurement uncertainty applied

8.3 Concluding remarks

The Pesticide Control Laboratory and Pesticide Controls Division of the DAFM, and the FSAI continue to have an on-going dialogue as part of the service contract between both organisations. The intention is to optimise the annual control programme for pesticide residues in food and assess the possible risk of such residues for consumers. The programme will continue to take account of the opinion of the European Commission with respect to the range of crops and pesticides to be included in the programme.

For the immediate future, DAFM will focus on further increasing the capacity of the laboratory to screen for an ever-increasing number of pesticides, using multi and single residue methods over a wider range of food commodities.

The analytical results were generated by J. Garvey, F. O Regan, T. Walsh, M. Graham, M. Kelly, J. Coloe, W. Cummins, C.O Connor, T.O Hara, M. O Connor, D. Smyth and D. Harris of the Pesticide Control Laboratory.

P. Carey and P. Killarney carried out the sampling; D McGilloway effected the violation investigations.

9 ANNEXES

9.1 ANNEX I Legislation

Regulation (EC) No. 396/2005 came into force on 01.09.2008, 6 months after publication of the last of the Regulations establishing Annexes I, II, III and IV. On the same date, Council Directives 76/895/EEC, 86/362/EEC and 86/363/EEC were repealed.

Regulation (EC) No. 396/2005	O.J. No. L70 of 16.03.2005
Regulation (EC) No. 299/2008	O.J. No. L97 of 09.04.2008

Amendments for Annex I of Regulation (EC) No. 396/2005 – Establishing the list of Commodities

Commission Regulation (EC) No. 178/2006	O.J. No. L29 of 02.02.2006
Commission Regulation (EC) No. 600/2010	O.J. No. L184 of 09.07.2010

Amendments for Annexes II, III and IV of Regulation (EC) No. 396/2005-Setting the MRLs

Commission Regulation (EC) No. 149/2008	O.J. No. L58 of 01.03.2008
Corrigendum to Commission Regulation (EC) No149/2008	O.J. No. L240 of 09.09.2008
Commission Regulation (EC) No. 839/2008	O.J. No. L234 of 30.08.2008
Commission Regulation (EC) No. 256/2009	O.J. No. L81 of 27.03.2009
Commission Regulation (EC) No. 822/2009	O.J. No. L329 of 10.09.2009
Commission Regulation (EC) No. 1050/2009	O.J. No. L290 of 06.11.2009
Commission Regulation (EC) No. 1097/2009	O.J. No. L301 of 17.11.2009
Commission Regulation (EU) No. 304/2010	O.J. No. L94 of 15.04.2010
Commission Regulation (EU) No. 459/2010	O.J. No. L129 of 28.05.2010
Commission Regulation (EU) No. 750/2010	O.J. No. L220 of 21.08.2010
Commission Regulation (EU) No. 893/2010	O.J. No. L266 of 09.10.2010
Commission Regulation (EU) No. 310/2011	O.J. No. L86 of 01.04.2011
Commission Regulation (EU) No. 460/2011	O.J. No. L124 of 13.05.2011
Commission Regulation (EU) No. 508/2011	O.J. No. L137 of 25.05.2011
Commission Regulation (EU) No. 520/2011	O.J. No. L140 of 27.05.2011
Commission Regulation (EU) No. 524/2011	O.J. No. L142 of 28.05.2011
Commission Regulation (EU) No. 559/2011	O.J. No. L152 of 11.06.2011
Commission Regulation (EU) No. 812/2011	O.J. No. L208 of 13.08.2011
Commission Regulation (EU) No. 813/2011	O.J. No. L208 of 13.08.2011
Commission Regulation (EU) No. 978/2011	O.J. No. L258 of 04.10.2011
Commission Regulation (EU) No. 270/2012	O.J. No. L89 of 27.03.2012
Commission Regulation (EU) No. 322/2012	O.J. No. L105 of 17.04.2012
Commission Regulation (EU) No. 441/2012	O.J. No. L135 of 25.05.2012
Commission Regulation (EU) No. 473/2012	O.J. No. L144 of 05.06.2012
Commission Regulation (EU) No. 556/2012	O.J. No. L166 of 27.06.2012
Commission Regulation (EU) No. 592/2012	O.J. No. L176 of 06.07.2012
Commission Regulation (EU) No. 897/2012	O.J. No. L266 of 02.10.2012
Commission Regulation (EU) No. 899/2012	O.J. No. L273 of 06.10.2012
Commission Regulation (EU) No. 34/2013	O.J. No. L25 of 26.01.2013
Commission Regulation (EU) No. 35/2013	O.J. No. L25 of 26.01.2013
Commission Regulation (EU) No. 212/2013	O.J. No. L68 of 12.03.2013
Commission Regulation (EU) No. 274/2013	O.J. No. L75 of 19.03.2013
Commission Regulation (EU) No. 251/2013	O.J. No. L88 of 27.03.2013
Commission Regulation (EU) No. 293/2013	O.J. No. L96 of 05.04.2013
Commission Regulation (EU) No. 500/2013	O.J. No. L151 of 04.06.2013
Commission Regulation (EU) No. 668/2013	O.J. No. L192 of 13.07.2013
Commission Regulation (EU) No. 772/2013	O.J. No. L217 of 13.08.2013
Commission Regulation (EU) No. 777/2013	O.J. No. L221 of 17.08.2013
Commission Regulation (EU) No. 834/2013	O.J. No. L233 of 31.08.2013
Commission Regulation (EU) No. 1004/2013	O.J. No. L279 of 19.10.2013
Commission Regulation (EU) No. 1138/2013	O.J. No. L307 of 16.11.2013
Commission Regulation (EU) No 1317/2013	O.J. No. L339 of 17.12.2013
Commission Regulation (EU) No 36/2014	O.J. No. L17 of 21.01.2014
Commission Regulation (EU) No 51/2014	O.J. No. L16 of 21.01.2014
Commission Regulation (EU) No 61/2014	O.J. No. L22 of 25.01.2014
Commission Regulation (EU) No 79/2014	O.J. No. L27 of 30.01.2014
Commission Regulation (EU) No 87/2014	O.J. No. L35 of 05.02.2014
Commission Regulation (EU) No 289/2014	O.J. No. L87 of 22.03.2014
Commission Regulation (EU) No 318/2014	O.J. No. L93 of 28.03.2014
Commission Regulation (EU) No 364/2014	O.J. No. L112 of 15.04.2014
Commission Regulation (EU) No 398/2014	O.J. No. L119 of 23.04.2014

Commission Regulation (EU) No 491/2014	O.J. No. L146 of 16.05.2014
Commission Regulation (EU) No 588/2014	O.J. No. L164 of 03.06.2014
Commission Regulation (EU) No 617/2014	O.J. No. L171 of 11.06.2014
Commission Regulation (EU) No 703/2014	O.J. No. L186 of 26.06.2014
Commission Regulation (EU) No 737/2014	O.J. No. L202 of 10.07.2014
Commission Regulation (EU) No 752/2014	O.J. No. L208 of 15.07.2014
Commission Regulation (EU) No 991/2014	O.J. No. L279 of 23.09.2014
Commission Regulation (EU) No 1096/2014	O.J. No. L300 of 18.10.2014
Commission Regulation (EU) No 1119/2014	O.J. No. L304 of 23.10.2014
Commission Regulation (EU) No 1126/2014	O.J. No. L305 of 24.10.2014
Commission Regulation (EU) No 1127/2014	O.J. No. L305 of 24.10.2014
Commission Regulation (EU) No 1146/2014	O.J. No. L308 of 29.10.2014
Commission Regulation (EU) No 165/2015	O.J. No. L28 of 04.02.2015
Commission Regulation (EU) No 399/2015	O.J. No. L71 of 14.03.2015
Commission Regulation (EU) No 400/2015	O.J. No. L71 of 14.03.2015
Commission Regulation (EU) No 401/2015	O.J. No. L71 of 14.03.2015
Commission Regulation (EU) No 552/2015	O.J. No. L92 of 08.04.2015
Commission Regulation (EU) No 603/2015	O.J. No. L100 of 17.04.2015
Commission Regulation (EU) No 845/2015	O.J. No. L138 of 04.06.2015
Commission Regulation (EU) No 846/2015	O.J. No. L140 of 05.06.2015
Commission Regulation (EU) No 868/2015	O.J. No. L145 of 10.06.2015
Commission Regulation (EU) No 896/2015	O.J. No. L147 of 12.06.2015
Commission Regulation (EU) No 1040/2015	O.J. No. L167 of 01.07.2015
Commission Regulation (EU) No 1101/2015	O.J. No. L181 of 09.07.2015
Commission Regulation (EU) No 1200/2015	O.J. No. L195 of 23.07.2015
Commission Regulation (EU) No 1608/2015	O.J. No. L249 of 25.09.2015
Commission Regulation (EU) No 1910/2015	O.J. No. L280 of 24.10.2015
Commission Regulation (EU) No 2075/2015	O.J. No. L302 of 19.11.2015

For Annex VII of Regulation (EC) No. 396/2005- For use as fumigants

Commission Regulation (EC) No. 260/2008	O.J. No. L76 of 19.03.2008
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Irish Legislation

The regulation and its amendments were transposed and updated into Irish legislation with the following statutory instrument in 2015:

S.I. No. 21 of 2015
S.I. No. 228 of 2015
S.I. No. 524 of 2015

Legislation for Veterinary Medicinal Products in food of animal origin

Directive 96/23/EC	O.J. No. L125 of 26.05.1996
Council Regulation (EC) No. 37/2010	O.J. No. L15/1 of 20.01.2010
Commission Implementing Regulation (EU) No. 1186/2012	O.J. No. L 338 of 12.12.2012

Baby food legislation – setting MRLs in food specific for infants

Commission Directive 2006/125/EC	O.J. No. L339 of 06.12.2006
Commission Directive 2006/141/EC	O.J. No. L401 of 30.12.2006

9.2 ANNEX II Analytical methods

Method No Matrix	Description
MRM 1 Fruit/Veg Cereal Honey	Analysis using gas chromatography, MS/MS and HPLC with MS/MS detector. Based on extraction method based on <i>Analytical Methods for Pesticide Residues in Foodstuffs</i> , 6 th edition, 1996, Ministry of Public Health, Welfare and Sport, The Netherlands.
MRM 2 Animal Fat	Analysis using gas chromatography, MS/MS and HPLC with MS/MS detector. Based on extraction based on clean-up method No. 5 of the <i>Manual of Pesticide Residue Analysis</i> DFG Deutsche Forschungsgemeinschaft, Volume 1, 1987 which involves the extraction with acetonitrile and acetone, clean-up using gel permeation chromatography column and alumina/silver nitrate micro columns (for organochlorine pesticides only).
MRM 3 Milk	Analysis using gas chromatography, MS/MS and HPLC with MS/MS detector. Based on Lehotay et al JAOAC Vol 88 No.2 2005 615. S.J. Lehotay, K. Mastovska, A.R. Lightfield, <i>Use of Buffer and Other Means to Improve Results of Problematic Pesticides in a Fast and Easy Method for Residue Analysis of Fruits and Vegetables</i> , JAOAC-Int., 88(2): 615-629. 2005
MRM 4 Infant food	Analysis using gas chromatography, MS/MS and HPLC with MS/MS detector Based on S.J. Lehotay, K. Mastovska, A.R. Lightfield, <i>Use of Buffer and Other Means to Improve Results of Problematic Pesticides in a Fast and Easy Method for Residue Analysis of Fruits and Vegetables</i> , JAOAC-Int., 88(2): 615-629. 2005
SRM Amitraz	Screening and confirmation of amitraz and its metabolites in food of plant origin and honey is based on the S.J. Lehotay, K. Mastovska, A.R. Lightfield, JAOAC-Int., 88(2): 615-629. 2005. Detection by LC-MS/MS.
SRM CS2	Screening, confirmation and quantitation of a range of dithiocarbamates in fruit, vegetables and infant formula/follow on formula are determined as CS ₂ following acid digestion degradation with tin chloride and hydrochloric acid and liquid extraction with trimethyl pentane and analysis by GC-MS.
SRM Glyphosate	Screening, confirmation and quantitation of Glyphosate, Glufosinate, Ethephon and some of their metabolites in cereals. Based on Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Foods of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination (QuPPE-Method), Version 7.1 Nov 2013 http://www.crl-pesticides.eu/library/docs/srm/meth_QuPPE.pdf
SRM Quats	Screening, confirmation and quantitation of Chlormequat, Mepiquat, Paraquat, Diquat, Daminoside and Cyromazine. Method based on the Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Foods of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination (QuPPE-Method), Version 7.1 Nov 2013 http://www.crl-pesticides.eu/library/docs/srm/meth_QuPPE.pdf

9.3 ANNEX III Scopes and LOQ of the analytical methods used

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
1-Naphthylacetamide	0.01	2,4,6-Trichlorophenol	0.005	1-Naphthylacetamide	0.01	1-Naphthylacetamide	0.01
2,4,5-T	0.01	3,5-Dichloroaniline	0.01	2,4,5-T	0.01	2,4,5-T	0.01
2,4,6-Trichlorophenol	0.01	3-Chloroaniline	0.005	2,4,6-Trichlorophenol	0.005	2,4,6-Trichlorophenol	0.01
2,4-D	0.02	4,4-Dichlorobenzophenone	0.005	2,4-D	0.02	2,4-D	0.01
2,4-DB	0.05	Acephate	0.05	2,4-DB	0.05	2,4-DB	0.01
3,5-Dichloroaniline	0.01	Aclonifen	0.02	3,5-Dichloroaniline	0.01	3,5-Dichloroaniline	0.01
3-Chloroaniline	0.01	Acrinathrin	0.005	3-Chloroaniline	0.005	3-Chloroaniline	0.01
4,4-Dichlorobenzophenone	0.01	Alachlor	0.005	4,4-Dichlorobenzophenone	0.005	4,4-Dichlorobenzophenone	0.01
Abamectin	0.1	Aldrin	0.005	Abamectin	0.1	Abamectin	0.1
Acephate	0.01	Ametryn	0.01	Acephate	0.01	Acephate	0.01
Acetamiprid	0.01	Aminocarb	0.01	Acetamiprid	0.01	Acetamiprid	0.01
Acetochlor	0.02	Anthraquinone	0.05	Acetochlor	0.02	Acetochlor	0.01
Acibenzolar-S-methyl	0.05	Atrazine	0.01	Acibenzolar-S-methyl	0.05	Acibenzolar-S-methyl	0.05
Aclonifen	0.01	Azaconazole	0.005	Aclonifen	0.02	Aclonifen	0.01
Acrinathrin	0.01	Azamethiophos	0.01	Acrinathrin	0.005	Acrinathrin	0.01
Alachlor	0.01	Azinphos-ethyl	0.005	Alachlor	0.005	Alachlor	0.01
Aldicarb	0.02	Azinphos-methyl	0.01	Aldicarb	0.02	Aldicarb	0.01
Aldicarb-sulfone	0.01	Azoxystrobin	0.01	Aldicarb-sulfone	0.01	Aldicarb-sulfone	0.01
Aldicarb-sulfoxide	0.02	Benalaxyl	0.01	Aldicarb-sulfoxide	0.02	Aldicarb-sulfoxide	0.01
Aldrin	0.01	Bendiocarb	0.01	Aldrin	0.005	Aldrin	0.01
Ametryn	0.01	Bifenthrin	0.005	Ametryn	0.01	Ametryn	0.01
Amidosulfuron	0.01	Biphenyl	0.1	Amidosulfuron	0.01	Amidosulfuron	0.01
Aminocarb	0.01	Bitertanol-I	0.005	Aminocarb	0.01	Aminocarb	0.01
Anthraquinone	0.05	Bitertanol-II	0.005	Anthraquinone	0.05	Anthraquinone	0.05
Asulam	0.02	Bixafen	0.01	Asulam	0.02	Asulam	0.01
Atrazine	0.01	Boscalid	0.02	Atrazine	0.01	Atrazine	0.01
Atrazine-desethyl	0.01	Bromacil	0.01	Atrazine-desethyl	0.01	Atrazine-desethyl	0.01
Atrazine-desisopropyl	0.01	Bromophos-ethyl	0.005	Atrazine-desisopropyl	0.01	Atrazine-desisopropyl	0.01
Azaconazole	0.01	Bromophos-methyl	0.005	Azaconazole	0.005	Azaconazole	0.01
Azamethiophos	0.01	Bromopropylate	0.005	Azamethiophos	0.01	Azamethiophos	0.01
Azinphos-ethyl	0.01	Bromuconazole	0.01	Azinphos-ethyl	0.005	Azinphos-ethyl	0.01
Azinphos-methyl	0.01	Bupirimate	0.01	Azinphos-methyl	0.01	Azoxystrobin	0.01
Azoxystrobin	0.01	Buprofezin	0.01	Azoxystrobin	0.01	Benalaxyl	0.01
		Butocarboxim-sulfoxide	0.01	BAC10	0.01	Bendiocarb	0.01
BAC10	0.01	Cadusafos	0.01	BAC12	0.01	Bentazone	0.01
BAC12	0.01	Carbaryl	0.01	BAC14	0.01	Benthiavdicarb-isopropyl	0.01
BAC14	0.01	Carbendazim	0.01	BAC16	0.01	Benzoximate	0.01
BAC16	0.01	Carbofuran	0.01	Benalaxyl	0.01	Bifenthrin	0.01
Benalaxyl	0.01	Carbofuran 3 hydroxy	0.01	Bendiocarb	0.01	Binapacryl	0.01
Bendiocarb	0.01	Carbosulfan	0.01	Bentazone	0.01	Bioresmethrin	0.01
Bentazone	0.01	Carboxin	0.01	Benthiavdicarb-isopropyl	0.01	Biphenyl	0.05
Benthiavdicarb-isopropyl	0.01	Chlorbromuron	0.01	Benzoximate	0.01	Bitertanol	0.01
Benzoximate	0.01	Chlorbufam	0.02	Bifenthrin	0.005	Bixafen	0.01
Bifenthrin	0.01	Chlordane-cis	0.005	Bioresmethrin	0.01	Boscalid	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Binapacryl	0.01	Chlordane-trans	0.005	Biphenyl	0.1	Bromacil	0.01
Bioresmethrin	0.01	Chlorfenapyr	0.02	Bitertanol-I	0.005	Bromophos-ethyl	0.01
Biphenyl	0.05	Chlorfenvinphos	0.01	Bitertanol-II	0.005	Bromophos-me	0.01
Bitertanol	0.01	Chlorobenzilate	0.005	Bixafen	0.01	Bromopropylate	0.01
Bixafen	0.01	Chlorothalonil	0.005	Boscalid	0.01	Bromoxynil	0.01
Boscalid	0.01	Chlorpropham	0.005	Bromacil	0.01	Bromuconazole	0.01
Bromacil	0.01	Chlorpyrifos methyl	0.005	Bromophos-ethyl	0.005	Bupirimate	0.01
Bromophos-ethyl	0.01	Chlorpyrifos	0.01	Bromophos-methyl	0.005	Buprofezin	0.01
Bromophos-methyl	0.01	Chlorthal-dimethyl	0.005	Bromopropylate	0.005	Butoxycarboxim-sulfoxide	0.01
Bromopropylate	0.01	Chlozolate	0.005	Bromoxynil	0.01	Butoxycarboxim	0.02
Bromoxynil	0.01	Clofentezine	0.01	Bromuconazole I	0.01	Cadusafos	0.01
Bromuconazole	0.01	Coumaphos	0.005	Bromuconazole II	0.01	Captafol	0.01
Bupirimate	0.01	Cyanazine	0.01	Bupirimate	0.01	Captan	0.01
Buprofezin	0.01	Cyanofenphos	0.005	Buprofezin	0.01	Carbaryl	0.01
Butocarboxim Sulfoxide	0.01	Cyanophos	0.005	Butocarboxim Sulfoxide	0.01	Carbendazim	0.01
Butoxycarboxim	0.02	Cyazofamid	0.01	Butoxycarboxim	0.02	Carbofuran	0.01
Cadusafos	0.01	Cyfluthrin	0.02	Cadusafos	0.01	Carbofuran 3 Hydroxy	0.01
Captafol	0.02	Cyhalothrin-lambda	0.005	Carbaryl	0.01	Carbosulfan	0.01
Captan	0.01	Cypermethrin	0.05	Carbendazim	0.02	Carboxin	0.01
Carbaryl	0.01	Cyproconazole	0.005	Carbofuran	0.01	Carfentrazone-ethyl	0.01
Carbendazim	0.02	Cyprodinil	0.01	Carbofuran 3 Hydroxy	0.01	Chlorantraniliprole	0.01
Carbofuran	0.01	Deltamethrin	0.02	Carbosulfan	0.01	Chlorbromuron	0.01
Carbofuran 3 Hydroxy	0.01	Demeton-S-me-sulfone	0.005	Carboxin	0.01	Chlorbufam	0.01
Carbosulfan	0.01	Diazinon	0.005	Carfentrazone-ethyl	0.01	Chlordane cis	0.05
Carboxin	0.01	Dichlobenil	0.005	Chlorantraniliprole	0.01	Chlordane trans	0.05
Carfentrazone-ethyl	0.01	Dichlofluanid	0.005	Chlorbromuron	0.01	Chlorfenapyr	0.01
Chlorantraniliprole	0.01	Dichlorvos	0.005	Chlorbufam	0.02	Chlorfenvinphos	0.01
Chlorbromuron	0.01	Dicloran	0.005	Chlordane-cis	0.005	Chlorfluazuron	0.01
Chlorbufam	0.01	Dieldrin	0.01	Chlordane-trans	0.005	Chloridazon	0.01
Chlordane-cis	0.01	Diethofencarb	0.01	Chlorfenapyr	0.02	Chlorobenzilate	0.01
Chlordane-trans	0.01	Difenoconazole	0.01	Chlorfenvinphos	0.01	Chlorothalonil	0.01
Chlorfenapyr	0.01	Dimethenamid	0.01	Chlorfluazuron	0.01	Chlorotoluron	0.01
Chlorfenvinphos	0.01	Dimethoate	0.005	Chloridazon	0.01	Chloroxuron	0.01
Chlorfluazuron	0.01	Dimethomorph	0.01	Chlorobenzilate	0.005	Chlorpropham	0.01
Chloridazon	0.01	Dimoxystrobin	0.005	Chlorothalonil	0.005	Chlorpyrifos	0.01
Chlorobenzilate	0.01	Diniconazole	0.01	Chlorotoluron	0.01	Chlorpyrifos Methyl	0.01
Chlorothalonil	0.01	Diphenylamine	0.05	Chloroxuron	0.01	Chlorsulfuron	0.05
Chlorotoluron	0.01	Diuron	0.01	Chlorpropham	0.005	Chlorthal-dimethyl	0.01
Chloroxuron	0.01	Endosulfan-alpha	0.01	Chlorpyrifos methyl	0.005	Chlozolate	0.05
Chlorpropham	0.01	Endosulfan-beta	0.01	Chlorpyrifos	0.01	Clethodim	0.01
Chlorpyrifos methyl	0.01	Endosulfan-ether	0.005	Chlorsulfuron	0.01	Clodinafop-propargyl	0.01
Chlorpyrifos	0.01	Endosulfan-lacton	0.02	Chlorthal-dimethyl	0.005	Clofentezine	0.01
Chlorsulfuron	0.01	Endosulfan-sulfate	0.02	Chlozolate	0.005	Clomazone	0.01
Chlorthal-dimethyl	0.01	Endrin	0.01	Clethodim	0.01	Clopyralid	0.05
Chlozolate	0.01	EPN	0.005	Clodinafop-propargyl	0.01	Clothianidin	0.01
Clethodim	0.01	Epoxyconazole	0.01	Clofentezine	0.01	Coumaphos	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Clodinafop-propargyl	0.01	Ethiofencarb	0.05	Clomazone	0.01	Cyanazine	0.01
Clofentezine	0.01	Ethiofencarb sulfone	0.05	Clopyralid	0.05	Cyanofenphos	0.01
Clomazone	0.01	Ethiofencarb sulfoxide	0.05	Clothianidin	0.01	Cyanophos	0.01
Clopyralid	0.05	Ethion	0.01	Coumaphos	0.005	Cyazofamid	0.01
Clothianidin	0.01	Ethofumesate	0.01	Cyanazine	0.01	Cyclanilide	0.01
Coumaphos	0.01	Ethoprophos	0.005	Cyanofenphos	0.005	Cycloate	0.01
Cyanazine	0.01	Etofenprox	0.01	Cyanophos	0.005	Cycloxydim	0.5
Cyanofenphos	0.01	Etoxazole	0.005	Cyazofamid	0.01	Cyfluthrin	0.05
Cyanophos	0.01	Etridazole	0.005	Cyclanilide	0.1	Cyhalothrin (lambda)	0.01
Cyazofamid	0.01	Etrimfos	0.01	Cycloate	0.01	Cymiazol	0.01
Cyclanilide	0.1	Famoxadone	0.01	Cycloxydim	0.05	Cymoxanil	0.01
Cycloate	0.01	Fenamidone	0.005	Cyfluthrin	0.02	Cypermethrin	0.1
Cycloxydim	0.05	Fenamiphos	0.01	Cyhalothrin-lambda	0.005	Cyproconazole	0.01
Cyfluthrin	0.01	Fenarimol	0.005	Cymiazol	0.01	Cyprodinil	0.01
Cyhalothrin-lambda	0.01	Fenazaquin	0.01	Cymoxanil	0.01	op DDD	0.01
Cymiazol	0.01	Fenbuconazole	0.005	Cypermethrin	0.05	pp DDD	0.01
Cymoxanil	0.01	Fenchlorphos	0.005	Cyproconazole	0.005	op DDE	0.01
Cypermethrin	0.02	Fenhexamid	0.01	Cyprodinil	0.01	pp DDE	0.01
Cyproconazole	0.01	Fenitrothion	0.005	DDAC	0.01	op DDT	0.01
Cyprodinil	0.01	Fenoxycarb	0.01	DEET	0.05	pp DDT	0.01
DDAC	0.01	Fenpropathrin	0.005	Deltamethrin	0.02	DEET	0.05
DEET	0.05	Fenpropidin	0.01	Demeton-S-me-sulfone	0.005	Deltamethrin	0.05
Deltamethrin	0.01	Fenpropimorph	0.01	Demeton-S-methyl-sulfoxide	0.01	Demeton-s-methyl sulfone	0.01
Demeton-S-me-sulfone	0.01	Fenpyroximate	0.01	Desmedipham	0.01	Demeton-s-methyl sulfoxide	0.01
Demeton-S-methyl-sulfoxide	0.01	Fenthion	0.01	Diazinon	0.005	Desmedipham	0.01
Desmedipham	0.01	Fenthion sulfone	0.01	Dichlobenil	0.005	Diazinon	0.01
Diazinon	0.01	Fenthion sulfoxide	0.01	Dichlofenthion	0.05	Dichlobenil	0.01
Dichlobenil	0.01	Fenvalerate-I	0.01	Dichlofluamid	0.005	Dichlofenthion	0.05
Dichlofenthion	0.05	Fenvalerate-II	0.01	Dichlorprop	0.01	Dichlofluamid	0.01
Dichlofluamid	0.01	Flamprop-isopropyl	0.01	Dichlorvos	0.005	Dichlorprop	0.01
Dichlorprop	0.01	Flucythrinate-I	0.02	Diclobutrazol	0.01	Dichlorvos	0.01
Dichlorvos	0.01	Flucythrinate-II	0.02	Dicloran	0.005	Diclobutrazol	0.01
Diclobutrazol	0.01	Fludioxonil	0.005	Dicrotophos	0.01	Dicloran	0.01
Dicloran	0.01	Flufenacet	0.01	Dieldrin	0.01	Dicofol	0.01
Dicofol	0.01	Flufenoxuron	0.01	Diethofencarb	0.01	Dicrotophos	0.01
Dicrotophos	0.01	Fluquinconazole	0.01	Difenoconazole	0.01	Dieldrin	0.01
Dieldrin	0.01	Flurtamone	0.005	Diflubenzuron	0.01	Diethofencarb	0.01
Diethofencarb	0.01	Flusilazole	0.005	Diflufenican	0.01	Difenoconazole	0.01
Difenoconazole	0.01	Flutolanil	0.01	Dimethenamid	0.01	Diflubenzuron	0.01
Diflubenzuron	0.01	Flutriafol	0.01	Dimethoate	0.005	Diflufenican	0.01
Diflufenican	0.01	Fluvalinate-tau-I	0.02	Dimethomorph I	0.01	Dimethenamid	0.01
Dimethenamid	0.01	Fluvalinate-tau-II	0.02	Dimethomorph II	0.01	Dimethoate	0.01
Dimethoate	0.01	Fonofos	0.005	Dimoxystrobin	0.005	Dimethomorph	0.01
Dimethomorph	0.01	Formothion	0.005	Diniconazole	0.01	Dimoxystrobin	0.01
Dimoxystrobin	0.01	Fosthiazate	0.01	Dinitramine	0.1	Diniconazole	0.01
Diniconazole	0.01	Fuberidazole	0.01	Dinoseb	0.02	Dinitramine	0.1

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Dinitramine	0.1	Furalaxyl	0.005	Dinoterb	0.02	Dinoseb	0.01
Dinoseb	0.02	Furathiocarb	0.01	Dioxacarb	0.01	Dinoterb	0.02
Dinoterb	0.02	HCH-alpha	0.005	Diphenamid	0.01	Dioxacarb	0.01
Dioxacarb	0.01	HCH-beta	0.005	Diphenylamine	0.05	Diphenamid	0.01
Diphenamid	0.01	HCH-delta	0.005	Ditalimfos	0.01	Diphenylamine	0.05
Diphenylamine	0.05	Heptachlor Heptachlor endo- epoxide,trans	0.005	Diuron	0.01	Ditalimfos	0.01
Ditalimfos	0.01	Heptachlor exo- epoxide,cis	0.005	DMSA	0.02	Diuron	0.01
Diuron	0.01	Heptenophos	0.01	DMST	0.02	DMSA	0.01
DMSA	0.02	Hexachlorobenzene	0.005	DNOC	0.01	DMST	0.01
DMST	0.02	Hexaconazole	0.005	Dodine	0.01	DNOC	0.02
DNOC	0.01	Hexythiazox	0.01	Emamectin B1a	0.01	Dodine	0.01
Dodine	0.01	Imazalil	0.01	Endosulfan sulfate	0.02	Emamectin B1a	0.01
Emamectin B1a	0.01	Indoxacarb	0.01	Endosulfan-alpha	0.01	Endosulfan (alpha isomer)	0.01
Endosulfan sulfate	0.02	Iodofenphos	0.005	Endosulfan-beta	0.01	Endosulfan (beta isomer)	0.01
Endosulfan-alpha	0.01	Iprovalicarb-I	0.02	Endosulfan-ether	0.005	Endosulfan ether	0.01
Endosulfan-beta	0.01	Iprovalicarb-II	0.02	Endosulfan-lacton	0.02	Endosulfan Lacton	0.01
Endosulfan-ether	0.01	Isazophos	0.005	Endosulfan-sulfate	0.02	Endosulfan sulfate	0.01
Endosulfan-lacton	0.01	Isodrin	0.005	Endrin	0.01	Endrin	0.01
Endosulfan-sulfate	0.02	Isofenphos	0.01	EPN	0.005	EPN	0.01
Endrin	0.01	Isofenphos-methyl	0.005	Epoxyconazole	0.01	Epoxyconazole	0.01
EPN	0.01	Isofenphos-oxon	0.005	EPTC	0.1	EPTC	0.01
Epoxyconazole	0.01	Isoprocarb	0.01	Ethiofencarb	0.05	Ethiofencarb	0.05
EPTC	0.1	Isoprothiolane	0.01	Ethiofencarb-sulfone	0.05	Ethiofencarb sulfone	0.05
Esfenvalerate	0.01	Isoproturon	0.01	Ethiofencarb-sulfoxide	0.05	Ethiofencarb sulfoxide	0.05
Ethiofencarb	0.05	Kresoxim-methyl	0.01	Ethion	0.01	Ethion	0.01
Ethiofencarb-sulfone	0.05	Lenacil	0.005	Ethirimol	0.01	Ethirimol	0.01
Ethiofencarb-sulfoxide	0.05	Lindane	0.005	Ethofumesate	0.01	Ethofumesate	0.01
Ethion	0.01	Linuron	0.01	Ethoprophos	0.005	Ethoprophos	0.01
Ethirimol	0.01	Lufenuron	0.01	Etofenprox	0.01	Etofenprox	0.01
Ethofumesate	0.01	Malaaxon	0.01	Etoxazole	0.005	Etoxazole	0.05
Ethoprophos	0.01	Malathion	0.01	Etridazole	0.005	Etridazole	0.01
Etofenprox	0.01	MCPA methyl ester	0.005	Etrimfos	0.01	Etrimfos	0.01
Etoxazole	0.01	Mecarbam	0.005	Famoxadone	0.01	Famoxadone	0.01
Etridazole	0.01	Mepanipyrim	0.01	Fenamidone	0.005	Fenamidone	0.01
Etrimfos	0.01	Mepronil	0.01	Fenamiphos	0.01	Fenamiphos	0.01
Famoxadone	0.01	Metalaxyl	0.01	Fenamiphos-sulfone	0.01	Fenamiphos-sulfone	0.01
Fenamidone	0.01	Metazachlor	0.01	Fenamiphos-sulfoxide	0.01	Fenamiphos-sulfoxide	0.01
Fenamiphos	0.01	Metconazole	0.01	Fenarimol	0.005	Fenarimol	0.01
Fenamiphos-sulfone	0.01	Methacrifos	0.005	Fenazaquin	0.01	Fenazaquin	0.01
Fenamiphos-sulfoxide	0.01	Methamidophos	0.005	Fenbuconazole	0.005	Fenbuconazole	0.01
Fenarimol	0.01	Methidathion	0.01	Fenchlorphos	0.005	Fenchlorphos	0.01
Fenazaquin	0.01	Methiocarb	0.01	Fenhexamid	0.01	Fenhexamid	0.01
Fenbuconazole	0.01	Methiocarb sulfone	0.01	Fenitrothion	0.005	Fenitrothion	0.01
Fenchlorphos	0.01	Methiocarb sulfoxide	0.01	Fenoprop (2,4,5 TP)	0.01	Fenoprop (2,4,5 TP)	0.01
Fenhexamid	0.01			Fenothiocarb	0.01	Fenothiocarb	0.01
Fenitrothion	0.01			Fenoxaprop-ethyl	0.05	Fenoxaprop-P	0.05

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Fenoprop (2,4,5 TP)	0.01	Methomyl	0.01	Fenoxycarb	0.01	Fenoxycarb	0.01
Fenothiocarb	0.01	Methoxychlor	0.02	Fenpiclonil	0.01	Fenpiclonil	0.01
Fenoxaprop-ethyl	0.05	Methoxyfenozide	0.01	Fenpropathrin	0.005	Fenpropathrin	0.01
Fenoxycarb	0.01	Metobromuron	0.01	Fenpropidin	0.01	Fenpropidin	0.01
Fenpiclonil	0.01	Metolachlor	0.01	Fenpropimorph	0.01	Fenpropimorph	0.01
Fenpropathrin	0.01	Metribuzin	0.005	Fenpyroximate	0.01	Fenpyroximate	0.01
Fenpropidin	0.01	Mevinphos	0.005	Fenthion	0.01	Fenthion	0.01
Fenpropimorph	0.01	Mirex	0.005	Fenthion Sulfone	0.01	Fenthion Sulfone	0.01
Fenpyroximate	0.01	Molinate	0.01	Fenthion Sulfoxide	0.01	Fenthion Sulfoxide	0.01
Fenthion	0.01	Molinate	0.02	Fenuron	0.05	Fenuron	0.05
Fenthion Sulfone	0.01	Myclobutanil	0.01	Fenvalerate-I	0.01	Fenvalerate	0.01
Fenthion Sulfoxide	0.01	Napropamide	0.01	Fenvalerate-II	0.01	Fipronil	0.01
Fenuron	0.05	Nitrofen	0.02	Fipronil	0.01	Fipronil desulfynil	0.01
Fenvalerate-I	0.01	Nonachlor-trans	0.005	Fipronil desulfynil	0.01	Fipronil sulfide	0.01
Fipronil	0.01	Nuarimol	0.005	Fipronil sulfide	0.01	Fipronil sulfone	0.01
Fipronil desulfynil	0.01	Omethoate	0.005	Fipronil sulfone	0.01	Flamprop isoropyl	0.01
Fipronil sulfide	0.01	opDDD	0.005	Flamprop-isopropyl	0.01	Flazasulfuron	0.01
Fipronil sulfone	0.01	opDDE	0.005	Flazasulfuron	0.01	Flonicamid	0.01
Flamprop-isopropyl	0.01	opDDT	0.01	Flonicamid	0.01	Florasulam	0.01
Flazasulfuron	0.01	o-Phenylphenol	0.005	Florasulam	0.01	Fluazifop	0.01
Flonicamid	0.01	Oxadixyl	0.005	Fluazifop	0.02	Fluazifop-P-butyl	0.01
Florasulam	0.01	Oxychlorane	0.005	Fluazifop-P-butyl	0.01	Fluazinam	0.01
Fluazifop	0.02	Paclobutrazol	0.01	Fluazinam	0.01	Flubendiamide	0.01
Fluazifop-P-butyl	0.01	Paraoxon ethyl	0.01	Flubendiamide	0.01	Flucycloxuron	0.01
Fluazinam	0.01	Paraoxon methyl	0.005	Flucycloxuron	0.01	Flucythrinate	0.01
Flubendiamide	0.01	Parathion-ethyl	0.005	Flucythrinate-I	0.02	Fludioxonil	0.01
Flucycloxuron	0.01	Parathion-methyl	0.005	Flucythrinate-II	0.02	Flufenacet	0.01
Flucythrinate	0.01	PCB 101	0.005	Fludioxonil	0.01	Flufenoxuron	0.01
Fludioxonil	0.01	PCB 118	0.005	Flufenacet	0.01	Fluopicolide	0.01
		PCB 138	0.005	Flufenoxuron	0.01	Fluopyram	0.02
Flufenacet	0.01	PCB 153	0.005	Fluopicolide	0.01	Fluquinconazole	0.01
Flufenoxuron	0.01	PCB 180	0.005	Fluopyram	0.02	Flurochloridone	0.01
Fluopicolide	0.01	PCB 28	0.005	Fluquinconazole	0.01	Flurtamone	0.01
Fluopyram	0.02	PCB 52	0.005	Flurochloridone	0.01	Flusilazole	0.01
Fluquinconazole	0.01	Penconazole	0.01	Flurtamone	0.005	Flutolanil	0.01
Flurochloridone	0.01	Pencycuron	0.01	Flusilazole	0.005	Flutriafol	0.01
Flurtamone	0.01	Pendimethalin	0.005	Flutolanil	0.01	Fluvalinate-tau	0.01
Flusilazole	0.01	Pentachloroaniline	0.005	Flutriafol	0.01	Fluxapyroxad	0.01
Flutolanil	0.01	Permethrin-I	0.02	Fluvalinate-tau-I	0.02	Folpet	0.01
Flutriafol	0.01	Permethrin-II	0.02	Fluvalinate-tau-II	0.02	Fonofos	0.01
Fluvalinate-tau	0.01	Phenmedipham	0.01	Fluxapyroxad	0.01	Forchlorfenuron	0.01
Fluxapyroxad	0.01	Phenthoate	0.005	Fonofos	0.005	Formothion	0.01
Folpet	0.01	Phorate sulfoxide	0.01	Forchlorfenuron	0.01	Fosthiazate	0.01
Fonofos	0.01	Phosalone	0.005	Formothion	0.005	Fubiderazole	0.01
Forchlorfenuron	0.01	Phosmet	0.005	Fosthiazate	0.01	Furalaxyl	0.01
Formothion	0.01	Phosphamidon-I	0.005	Fuberidazole	0.01	Furathiocarb	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Fosthiazate	0.01	Phosphamidon-II	0.005	Furalaxyl	0.005	Furmecyclox	0.01
Fuberidazole	0.01	Phoxim	0.01	Furathiocarb	0.01	Haloxypop	0.01
Furalaxyl	0.01	Picoxystrobin	0.01	Furmecyclox	0.01	Haloxypop-methyl	0.01
Furathiocarb	0.01	Piperonyl butoxide	0.01	Haloxypop	0.02	HCH alpha	0.01
Furmecyclox	0.01	Pirimicarb	0.005	Haloxypop-methyl	0.01	HCH beta	0.01
Haloxypop	0.02	Pirimicarb desmethyl	0.005	HCH-alpha	0.005	HCH-delta	1.01
Haloxypop-methyl	0.01	Pirimiphos ethyl	0.01	HCH-beta	0.005	Heptachlor	0.01
HCH-alpha	0.01	Pirimiphos methyl	0.01	HCH-delta	0.005	Heptachlor endo epoxide	0.01
HCH-beta	0.01	ppDDD	0.005	Heptachlor Heptachlor endo- epoxide,trans	0.005	Heptachlor exo epoxide	0.01
HCH-delta	0.01	ppDDE	0.005	Heptachlor exo- epoxide,cis	0.005	Heptenophos	0.01
Heptachlor Heptachlor endo- epoxide,trans	0.01	ppDDT	0.01	Heptenophos	0.01	Hexachlorobenzene	0.01
Heptachlor exo- epoxide,cis	0.01	Prochloraz	0.05	Hexachlorobenzene	0.005	Hexaconazole	0.01
Heptenophos	0.01	Procymidone	0.005	Hexaconazole	0.005	Hexaflumuron	0.01
Hexachlorobenzene	0.01	Profenofos	0.005	Hexaflumuron	0.01	Hexythiazox	0.01
Hexaconazole	0.01	Prometryn	0.01	Hexythiazox	0.01	Imazalil	0.01
Hexaflumuron	0.01	Propachlor	0.005	Imazalil	0.01	Imazamox	0.01
Hexythiazox	0.01	Propanil	0.005	Imazamox	0.01	Imazaquin	0.01
Imazalil	0.01	Propargite	0.005	Imazaquin	0.01	Imazethapyr	0.01
Imazamox	0.01	Propetamphos	0.005	Imazethapyr	0.01	Imidacloprid	0.01
Imazaquin	0.01	Propham	0.005	Imidacloprid	0.01	Indoxacarb	0.01
Imazethapyr	0.01	Propiconazole-I	0.005	Indoxacarb	0.01	Iodofenphos Iodosulfuron-methyl- sodium	0.01
Imidacloprid	0.01	Propiconazole-II	0.005	Iodofenphos	0.005	Ioxynil	0.01
Indoxacarb	0.01	Propoxur	0.01	Iodosulfuron-methyl	0.01	Iprodione	0.01
Iodofenphos	0.01	Propyzamide	0.01	Ioxynil	0.01	Iprovalicarb	0.05
Iodosulfuron-methyl	0.01	Prothiofos	0.005	Iprovalicarb-I	0.02	Isazophos	0.01
Ioxynil	0.01	Pyraclostrobin	0.01	Iprovalicarb-II	0.02	Isocarbofos	0.01
Iprodione	0.01	Pyrazophos	0.01	Isazophos	0.005	Isodrin	0.01
Iprovalicarb	0.01	Pyrethrin	0.05	Isodrin	0.005	Isofenphos	0.01
Isazophos	0.01	Pyridaben	0.01	Isofenphos	0.02	Isofenphos-methyl	0.01
Isocarbofos	0.01	Pyridaben	0.005	Isofenphos-methyl	0.005	Isofenphos-oxon	0.01
Isodrin	0.01	Pyridaphenthion	0.01	Isofenphos-oxon	0.005	Isoprocarb	0.01
Isofenphos	0.02	Pyrifenox-I	0.01	Isoprocarb	0.01	Isoprothiolane	0.01
Isofenphos-methyl	0.01	Pyrifenox-II	0.01	Isoprothiolane	0.01	Isoproturon	0.01
Isofenphos-oxon	0.01	Pyrimethanil	0.01	Isoproturon	0.01	Kresoxim-methyl	0.01
Isoprocarb	0.01	Pyriproxifen	0.01	Kresoxim-methyl	0.01	Lenacil	0.01
Isoprothiolane	0.01	Quinalphos	0.01	Lenacil	0.005	Lindane	0.01
Isoproturon	0.01	Quinoxifen	0.01	Lindane	0.005	Linuron	0.01
Kresoxim-methyl	0.01	Quintozene	0.005	Linuron	0.01	Lufenuron	0.01
Lenacil	0.01	Quizalofop	0.01	Lufenuron	0.01	Malaoxon	0.01
Lindane	0.01	Resmethrin	0.1	Malaoxon	0.01	Malathion	0.01
Linuron	0.01	Rotenone	0.01	Malathion	0.01	Mandipropamid	0.01
Lufenuron	0.01	Silthiofam	0.005	Mandipropamid	0.01	MCPA	0.01
Malaoxon	0.01	Simazine	0.01	MCPA	0.02	MCPA Methyl Ester	0.01
Malathion	0.01	Spirodiclofen	0.02	MCPA methyl ester	0.005	MCPB	0.01
Mandipropamid	0.01	Spiroxamine	0.01	MCPB	0.01	Mecarbam	0.01
		Tebuconazole	0.01				

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
MCPA	0.02	Tebufenozide	0.01	Mecarbam	0.005	Mecoprop	0.01
MCPA methyl ester	0.01	Tebufenpyrad	0.01	Mecoprop	0.01	Mefenpyr-Diethyl	0.01
MCPB	0.01	Tecnazene	0.005	Mefenpyr-Diethyl	0.01	Mepanipirim	0.01
Mecarbam	0.01	Tefluthrin	0.005	Mepanipirim	0.01	Mephosfolan	0.01
Mecoprop	0.01	Terbutylazine	0.01	Mephosfolan	0.01	Mepronil	0.01
Mefenpyr-Diethyl	0.01	Tetraconazole	0.005	Mepronil	0.01	Mesosulfuron-methyl	0.01
Mepanipirim	0.01	Tetradifon	0.005	Mesosulfuron methyl	0.01	Metalaxyl	0.01
Mephosfolan	0.01	Tetramethrin-I	0.02	Metalaxyl	0.01	Metamitron	0.01
Mepronil	0.01	Tetramethrin-II	0.02	Metamitron	0.01	Metazachlor	0.01
Mesosulfuron methyl	0.01	Thiabendazole	0.01	Metazachlor	0.01	Metconazole	0.01
Metalaxyl	0.01	Thiacloprid	0.01	Metconazole	0.01	Methacrifos	0.01
Metamitron	0.01	Tolclofos-methyl	0.005	Methacrifos	0.005	Methamidophos	0.01
Metazachlor	0.01	Tolyfluand	0.005	Methamidophos	0.01	Methidathion	0.01
Metconazole	0.01	Triadimefon	0.005	Methidathion	0.01	Methiocarb	0.01
Methacrifos	0.01	Triadimenol-I	0.02	Methiocarb	0.01	Methiocarb Sulfone	0.01
Methamidophos	0.01	Triadimenol-II	0.02	Methiocarb Sulfone	0.01	Methiocarb Sulfoxide	0.01
Methidathion	0.01	Triazophos	0.01	Methiocarb Sulfoxide	0.01	Methomyl	0.01
Methiocarb	0.01	Trifloxystrobin	0.01	Methomyl	0.01	Methoprene	0.01
Methiocarb Sulfone	0.01	Triflumizole	0.01	Methoprene	0.01	Methoxychlor	0.01
Methiocarb Sulfoxide	0.01	Triflumizole	0.01	Methoxychlor	0.02	Methoxyfenozide	0.01
Methomyl	0.01	Trifluralin	0.005	Methoxyfenozide	0.01	Metobromuron	0.01
Methoprene	0.01	Triticonazole	0.01	Metobromuron	0.01	Metolachlor	0.01
Methoxychlor	0.01	Vamidothion	0.01	Metolachlor	0.01	Metosulam	0.01
Methoxyfenozide	0.01	Vinclozolin	0.005	Metosulam	0.01	Metoxuron	0.01
Metobromuron	0.01	Zoxamide	0.01	Metoxuron	0.01	Metrafenone	0.01
Metolachlor	0.01			Metrafenone	0.01	Metribuzin	0.01
Metosulam	0.01			Metribuzin	0.005	Metsulfuron-methyl	0.01
Metoxuron	0.01			Metsulfuron-methyl	0.01	Mevinphos	0.01
Metrafenone	0.01			Mevinphos	0.005	Mirex	0.01
Metribuzin	0.01			Mirex	0.005	Molinate	0.01
Metsulfuron-methyl	0.01			Molinate	0.02	Monocrotophos	0.01
Mevinphos	0.01			Monocrotophos	0.02	Monolinuron	0.01
Mirex	0.01			Monolinuron	0.01	Myclobutanil	0.01
Molinate	0.01			Myclobutanil	0.01	Napropamide	0.01
Monocrotophos	0.02			Napropamide	0.01	Naptalam	0.01
Monolinuron	0.01			Naptalam	0.01	Neburon	0.01
Myclobutanil	0.01			Neburon	0.01	Nicosulfuron	0.01
Napropamide	0.01			Nicosulfuron	0.01	Nitenpyram	0.01
Naptalam	0.01			Nitenpyram	0.01	Nitrofen	0.01
Neburon	0.01			Nitrofen	0.02	Nonachlor, trans-	0.01
Nicosulfuron	0.01			Nonachlor-trans	0.005	Nuarimol	0.01
Nitenpyram	0.01			Nuarimol	0.005	Omethoate	0.01
Nitrofen	0.01			Omethoate	0.005	o-Phenylphenol	0.01
Nonachlor-trans	0.01			opDDD	0.005	Oxadiazon	0.01
Nuarimol	0.01			opDDE	0.005	Oxadixyl	0.01
Omethoate	0.01			opDDT	0.01	Oxamyl	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
opDDD	0.01			o-Phenyphenol	0.005	Oxamyl Oxime	0.01
opDDE	0.01			Oxadiazon	0.01	Oxy-chlordane	0.01
opDDT	0.01			Oxadixyl	0.005	Oxyfluorfen	0.1
o-Phenyphenol	0.01			Oxamyl	0.01	Paclobutrazol	0.01
Oxadiazon	0.01			Oxamyl Oxime	0.01	Paraoxon-ethyl	0.01
Oxadixyl	0.01			Oxychlordane	0.005	Paraoxon-methyl	0.01
Oxamyl	0.01			Oxyfluorfen	0.1	Parathion ethyl	0.01
Oxamyl Oxime	0.01			Paclobutrazol	0.01	Parathion methyl	0.01
Oxychlordane	0.01			Paraoxon methyl	0.005	PCB 101	0.01
Oxyfluorfen	0.1			Paraoxon-ethyl	0.01	PCB 118	0.01
Paclobutrazol	0.01			Parathion-ethyl	0.005	PCB 138	0.01
Paraoxon methyl	0.01			Parathion-methyl	0.005	PCB 153	0.01
Paraoxon-ethyl	0.01			PCB 101	0.005	PCB 180	0.01
Parathion-ethyl	0.01			PCB 118	0.005	PCB 28	0.01
Parathion-methyl	0.01			PCB 138	0.005	PCb 52	0.01
Penconazole	0.01			PCB 153	0.005	Penconazole	0.01
Pencycuron	0.01			PCB 180	0.005	Pencycuron	0.01
Pendimethalin	0.01			PCB 28	0.005	Pendimethalin	0.01
Pentachloroaniline	0.01			PCB 52	0.005	Pentachloroaniline	0.01
Permethrin	0.01			Penconazole	0.01	Permethrin	0.01
Pethoxamid	0.01			Pencycuron	0.01	Pethoxamid	0.01
Phenmedipham	0.01			Pendimethalin	0.005	Phenmedipham	0.01
Phenthoate	0.01			Pentachloroaniline	0.005	Phenthoate	0.01
Phorate	0.1			Permethrin-I	0.02	Phorate	0.1
Phorate Sulfoxide	0.01			Permethrin-II	0.02	Phorate Sulfoxide	0.01
Phosalone	0.01			Pethoxamid	0.01	Phosalone	0.01
Phosmet	0.01			Phenmedipham	0.01	Phosmet	0.01
Phosmet-oxon	0.01			Phenthoate	0.005	Phosmet-oxon	0.01
Phosphamidon	0.01			Phorate	0.1	Phosphamidon	0.01
Phoxim	0.01			Phorate Sulfoxide	0.01	Phoxim	0.01
Picloram	0.1			Phosalone	0.005	Picloram	0.1
Picoxystrobin	0.01			Phosmet	0.005	Picoxystrobin	0.01
Piperonyl butoxide	0.01			Phosmet-oxon	0.01	Piperonyl butoxide	0.01
Pirimicarb	0.01			Phosphamidon-I	0.005	Pirimicarb	0.01
Pirimicarb desmethyl	0.01			Phosphamidon-II	0.005	Pirimicarb desmethyl	0.01
Pirimiphos-ethyl	0.01			Phoxim	0.01	Pirimiphos-ethyl	0.01
Pirimiphos-methyl	0.01			Picloram	0.1	Pirimiphos-methyl	0.01
ppDDD	0.01			Picoxystrobin	0.01	Prochloraz	0.01
ppDDE	0.01			Piperonyl butoxide	0.01	Procymidone	0.01
ppDDT	0.01			Pirimicarb	0.005	Profenofos	0.01
Prochloraz	0.01			Pirimicarb desmethyl	0.005	Promecarb	0.01
Procymidone	0.01			Pirimiphos-ethyl	0.01	Prometon	0.01
Profenofos	0.01			Pirimiphos-methyl	0.01	Prometryn	0.01
Promecarb	0.01			ppDDD	0.005	Propachlor	0.01
Prometryn	0.01			ppDDE	0.005	Propamocarb	0.01
Prometon	0.01			ppDDT	0.01	Propanil	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Propachlor	0.01			Prochloraz	0.05	Propaquizafop	0.01
Propamocarb	0.01			Procymidone	0.005	Propargite	0.01
Propanil	0.01			Profenofos	0.005	Propazine	0.01
Propaquizafop	0.01			Promecarb	0.01	Propetamphos	0.01
Propargite	0.01			Promethryn	0.01	Propham	0.01
Propazine	0.01			Prometon	0.01	Propiconazole	0.01
Propetamphos	0.01			Propachlor	0.005	Propoxur	0.01
Propham	0.01			Propamocarb	0.01	Propoxycarbazone sodium	0.01
Propiconazole	0.01			Propanil	0.005	Propyzamide	0.01
Propoxur	0.01			Propaquizafop	0.01	Proquinazid	0.01
Propoxycarbazone	0.01			Propargite	0.005	Prosulfocarb	0.05
Propyzamide	0.01			Propazine	0.01	Prosulfuron	0.01
Proquinazid	0.01			Propetamphos	0.005	Prothioconazole desthio	0.01
Prosulfocarb	0.05			Propham	0.005	Prothiofos	0.01
Prosulfuron	0.01			Propiconazole-I	0.005	Pymetrozine	0.01
Prothioconazole desthio	0.01			Propiconazole-II	0.005	Pyraclostrobin	0.01
Prothiofos	0.01			Propoxur	0.01	Pyrazaphos	0.01
Pymetrozine	0.02			Propoxycarbazone	0.01	Pyrethrins	0.05
Pyraclostrobin	0.01			Propyzamide	0.01	Pyridaben	0.01
Pyrazaphos	0.01			Proquinazid	0.01	Pyridaphenthion	0.01
Pyrethrins	0.05			Prosulfocarb	0.05	Pyrifenox I	0.01
Pyridaben	0.01			Prosulfuron	0.01	Pyrimethanil	0.01
Pyridaphenthion	0.01			Prothioconazole desthio	0.01	Pyriproxifen	0.01
Pyrifenox	0.02			Prothiofos	0.005	Quinalphos	0.01
Pyrimethanil	0.01			Pymetrozine	0.02	Quinclorac	0.01
Pyriproxifen	0.01			Pyraclostrobin	0.01	Quinoxifen	0.01
Quinalphos	0.01			Pyrazaphos	0.01	Quintozene	0.01
Quinclorac	0.01			Pyrethrins	0.05	Quizalofop	0.01
Quinoxifen	0.01			Pyridaben	0.005	Quizalofop-ethyl	0.01
Quintozene	0.01			Pyridaphenthion	0.01	Resmethrin	0.1
Quizalofop	0.02			Pyrifenox-I	0.01	Rimsulfuron	0.02
Quizalofop-ethyl	0.01			Pyrifenox-II	0.01	Rotenone	0.01
Resmethrin	0.1			Pyrimethanil	0.01	Silthiofam	0.01
Rimsulfuron	0.01			Pyriproxifen	0.01	Simazine	0.01
Rotenone	0.01			Quinalphos	0.01	Simetryn	0.01
Silthiofam	0.01			Quinclorac	0.01	Spinosyn A	0.01
Simazine	0.01			Quinoxifen	0.01	Spinosyn D	0.01
Simetryn	0.01			Quintozene	0.005	Spirodiclofen	0.01
Spinosyn A	0.01			Quizalofop	0.02	Spiromesifen	0.01
Spinosyn D	0.01			Quizalofop-ethyl	0.01	Spirotetramat	0.01
Spirodiclofen	0.01			Resmethrin	0.1	Spiroxamine	0.01
Spiromesifen	0.01			Rimsulfuron	0.01	Sulfentrazone	0.02
Spirotetramat	0.01			Rotenone	0.01	Sulfotep	0.01
Spiroxamine	0.01			Silthiofam	0.005	Sulprofos	0.01
Sulfentrazone	0.01			Simazine	0.01	Tebuconazole	0.01
Sulfotep	0.01			Simetryn	0.01	Tebufozide	0.01

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Sulprofos	0.01			Spinosyn A	0.01	Tebufenpyrad	0.01
Tebuconazole	0.01			Spinosyn D	0.01	Tecnazene	0.01
Tebufenozide	0.01			Spirodiclofen	0.01	Teflubenzuron	0.01
Tebufenpyrad	0.01			Spiromesifen	0.01	Tefluthrin	0.01
Tecnazene	0.01			Spirotetramat	0.01	Terbufos	0.05
Teflubenzuron	0.01			Spiroxamine	0.01	Terbumeton	0.01
Tefluthrin	0.02			Sulfentrazone	0.01	Terbuthylazine	0.01
Terbufos	0.05			Sulfotep	0.01	Terbuthylazine-2-hydroxy	0.01
Terbumeton	0.01			Sulprofos	0.01	Terbuthylazine-desethyl	0.01
Terbuthylazine	0.01			Tebuconazole	0.01	Terbutryn	0.01
Terbuthylazine-2-hydroxy	0.01			Tebufenozide	0.01	Tetraconazole	0.01
Terbuthylazine-desethyl	0.01			Tebufenpyrad	0.01	Tetradifon	0.01
Terbutryn	0.01			Tecnazene	0.005	Tetramethrin	0.02
Tetraconazole	0.01			Teflubenzuron	0.01	Thiabendazole	0.01
Tetradifon	0.01			Tefluthrin	0.005	Thiacloprid	0.01
Tetramethrin	0.02			Terbufos	0.05	Thiamethoxam	0.01
Thiabendazole	0.01			Terbumeton	0.01	Thifensulfuron-methyl	0.01
Thiacloprid	0.02			Terbuthylazine	0.01	Thiobencarb	0.01
Thiamethoxam	0.01			Terbuthylazine-2-hydroxy	0.01	Thiodicarb	0.01
Thifensulfuron-methyl	0.05			Terbuthylazine-desethyl	0.01	Thionazin	0.01
Thiobencarb	0.01			Terbutryn	0.01	Thiophanate-Ethyl	0.01
Thiodicarb	0.01			Tetraconazole	0.005	Thiophanate-Methyl	0.01
Thionazin	0.02			Tetradifon	0.005	Tolclofos-methyl	0.01
Thiophanate-Ethyl	0.01			Tetramethrin-I	0.02	Tolyfluanid	0.01
Thiophanate-Methyl	0.01			Tetramethrin-II	0.02	Topramezone	0.01
Tolclofos-methyl	0.01			Thiabendazole	0.01	Triadimefon	0.01
Tolyfluanid	0.01			Thiacloprid	0.02	Triadimenol-I	0.01
Topramezone	0.01			Thiamethoxam	0.01	Tri-Allat	0.01
Triadimefon	0.01			Thifensulfuron-methyl	0.05	Triasulfuron	0.01
Triadimenol	0.01			Thiobencarb	0.01	Triazophos	0.01
Tri-Allat	0.01			Thiodicarb	0.01	Trichlorfon	0.02
Triasulfuron	0.01			Thionazin	0.02	Triclopyr	0.01
Triazophos	0.01			Thiophanate-Ethyl	0.01	Tricyclazole	0.01
Trichlorfon	0.02			Thiophanate-Methyl	0.01	Trifloxystrobin	0.01
Triclopyr	0.01			Tolclofos-methyl	0.005	Triflumizole	0.01
Tricyclazole	0.01			Tolyfluanid	0.005	Triflumuron	0.01
Trifloxystrobin	0.01			Topramezone	0.01	Trifluralin	0.01
Triflumizole	0.02			Triadimefon	0.005	Trisulfuron-methyl	0.01
Triflumuron	0.01			Triadimenol-I	0.02	Triticonazole	0.01
Trifluralin	0.01			Triadimenol-II	0.02	Vamidothion	0.01
Triflusulfuron-methyl	0.01			Tri-Allat	0.01	Vinclozolin	0.01
Triticonazole	0.01			Triasulfuron	0.01	Zoxamide	0.01
Vamidothion	0.01			Triazophos	0.01		
Vinclozolin	0.01			Trichlorfon	0.02		
Zoxamide	0.01			Triclopyr	0.01		
				Tricyclazole	0.01		

Fruits, Veggies, Cereals, Honey		Animal Fats		Milk		Infant Food	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
				Trifloxystrobin	0.01		
				Triflumizole	0.02		
				Triflumuron	0.01		
				Trifluralin	0.005		
				Triflurosulfuron-methyl	0.01		
				Triticonazole	0.01		
				Vamidothion	0.01		
				Vinclozolin	0.005		
				Zoxamide	0.01		
Amitraz method		Dithiocarbamate method		Glyphosate method		Chlormequat type method	
Standards	LOQ	Standards	LOQ	Standards	LOQ	Standards	LOQ
Amitraz	0.01	Dithiocarbamates	0.05	AMPA	0.08	Chlormequat	0.01
DMA	0.05			Ethephon	0.08	Cyromazine	0.01
DMF	0.01			Glufosinate ammonium	0.08	Daminozide	0.01
DMPF	0.01			Glyphosate	0.08	Mepiquat	0.01
				MPPA	0.08	Paraquat	0.01
				N Acetyl glyphosate	0.08	Diquat	0.05

9.4 ANNEX IV Analytical results

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
SURVEILLANCE							
CITRUS FRUIT	Clementine	Mexico	851043	Imazalil	2.1	5	
			Morocco	850922	Imazalil	2	5
				Lambda-Cyhalothrin	0.017	0.2	
			Malathion	0.013	0.02		
			2-Phenylphenol	3.2	5		
			Pyrimethanil	1.8	8		
			Thiabendazole	0.01	5		
			850942	Chlorpyrifos	0.085	2	
		Fenazaquin		0.038	0.5		
			Imazalil	2.1	5		
			2-Phenylphenol	5.9	5	MRL Breach	
			Pyrimethanil	0.61	8		
			850961	Chlorpyrifos	0.13	2	
		Imazalil		0.59	5		
			Lambda-Cyhalothrin	0.015	0.2		
			2-Phenylphenol	0.23	5		
			Pyrimethanil	0.67	8		
			850984	Chlorpyrifos	0.15	2	
		Imazalil		3.5	5		
			2-Phenylphenol	7.6	5	MRL Breach	
			Pyrimethanil	2.2	8		
			Thiabendazole	0.016	5		
			850985	Fenazaquin	0.018	0.5	
		Imazalil		1.9	5		
			Imidacloprid	0.011	1		
			Lambda-Cyhalothrin	0.024	0.2		
			2-Phenylphenol	1.5	5		
			Pyrimethanil	1.3	8		
			Thiabendazole	0.071	5		
			Thiacloprid	0.028	0.02	MRL Breach	
			851006	Fenazaquin	0.015	0.5	
		Imazalil		2.1	5		
			2-Phenylphenol	0.03	5		
			851044	Chlorpyrifos	0.01	2	
		Fenazaquin		0.01	0.5		
			Imazalil	1.4	5		
			Imidacloprid	0.024	1		
			2-Phenylphenol	1.3	5		
			Pyrimethanil	0.93	8		
			Thiabendazole	0.14	5		
	Thiacloprid	0.049	0.02	MRL Breach			
	851105	Chlorpyrifos	0.18	2			
Imazalil		1.9	5				
	2-Phenylphenol	0.062	5				
	851143	Imazalil	1.5	5			
2-Phenylphenol		1.4	5				
	Pyrimethanil	0.22	8				
	851192	Chlorpyrifos	0.019	2			
Fludioxonil		0.27	7				
	Imazalil	0.017	5				

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Thiabendazole	0.6	5	
			851196	Chlorpyrifos	0.21	2	
				Chlorpyrifos-Methyl	0.018	1	
				Imazalil	2.7	5	
				Imidacloprid	0.011	1	
				Lambda-Cyhalothrin	0.015	0.2	
				Pyrimethanil	0.34	8	
				Thiabendazole	0.01	5	
		Peru	851438	2,4-D	0.24	1	
				Imazalil	2.9	5	
				2-Phenylphenol	0.01	5	
				Thiabendazole	4.9	5	
		S Africa	851370	2,4-D	0.14	1	
				Carbendazim	0.02	0.7	
				Chlorpyrifos	0.016	2	
				Imazalil	0.78	5	
				Imidacloprid	0.039	1	
				Methoxyfenozide	0.037	2	
				Pyraclostrobin	0.027	1	
				Pyrimethanil	1.6	8	
				Thiabendazole	0.91	5	
				Trifloxystrobin	0.011	0.3	
			851410	2,4-D	0.076	1	
				Chlorantraniliprole	0.018	0.7	
				Imazalil	2.9	5	
				Imidacloprid	0.024	1	
				Pyrimethanil	0.73	8	
			851416	2,4-D	0.08	1	
				Cypermethrin	0.026	2	
				Imazalil	1.9	5	
				Pyrimethanil	1.8	8	
				Thiabendazole	0.077	5	
			851437	2,4-D	0.13	1	
				Imazalil	2.4	5	
				Pyrimethanil	0.013	8	
				Thiabendazole	1.2	5	
				Trifloxystrobin	0.014	0.3	
			851486	2,4-D	0.1	1	
				Azoxystrobin	0.033	15	
				Buprofezin	0.012	1	
				Chlorpyrifos	0.022	2	
				Fenpropathrin	0.013	2	
				Imazalil	4.2	5	
				Imidacloprid	0.025	1	
				Pyrimethanil	0.15	8	
				Thiabendazole	0.75	5	
		Spain	850923	Chlorpyrifos	0.081	2	
				Imazalil	1	5	
			851056	Chlorpyrifos	0.042	2	
				Imazalil	3.4	5	
				Propiconazole	0.51	6	
				Pyriproxyfen	0.021	0.6	
				Thiabendazole	2.6	5	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851149	Chlorpyrifos	0.09	2	
				Imazalil	1.1	5	
				Pyriproxyfen	0.011	0.6	
			851607	Chlorpyrifos	0.06	2	
				Imazalil	0.18	5	
				Pyriproxyfen	0.012	0.6	
	Grapefruit	Cyprus	850987	Chlorpyrifos	0.18	0.3	
				Imazalil	1.5	5	
				2-Phenylphenol	0.29	5	
				Pyrimethanil	0.021	8	
				Thiabendazole	1	5	
		S Africa	851336	Imazalil	0.78	5	
				Imidacloprid	0.021	1	
				Pyraclostrobin	0.031	1	
				Pyrimethanil	0.02	8	
				Pyriproxyfen	0.03	0.6	
				Thiabendazole	1.4	5	
			851366	2,4-D	0.044	1	
				Imazalil	2	5	
				Pyraclostrobin	0.01	1	
				Pyrimethanil	4.4	8	
				Thiabendazole	1.1	5	
			851407	Imazalil	1.2	5	
				Imidacloprid	0.056	1	
				Pyraclostrobin	0.049	1	
				Thiabendazole	0.99	5	
			851414	Azoxystrobin	0.017	15	
				Imazalil	1.3	5	
				Imidacloprid	0.017	1	
				Pyraclostrobin	0.03	1	
			851418	Imazalil	2.6	5	
				2-Phenylphenol	0.14	5	
				Pyrimethanil	0.1	8	
				Thiabendazole	0.59	5	
				Trifloxystrobin	0.032	0.3	
		Spain	851260	Chlorpyrifos	0.065	0.3	
				Imazalil	1.3	5	
				2-Phenylphenol	0.28	5	
				Pyriproxyfen	0.017	0.6	
		Turkey	850933	Acetamiprid	0.7	0.9	
				Buprofezin	0.021	1	
				Carbendazim	0.021	0.2	
				Chlorpyrifos	0.039	0.3	
				Imazalil	1.4	5	
				2-Phenylphenol	0.032	5	
				Pyrimethanil	2.6	8	
				Thiabendazole	0.35	5	
				Thiophanate-Methyl	0.015	6	
			851031	Azoxystrobin	0.015	15	
				Chlorpyrifos	0.13	0.3	
				Dithiocarbamates	0.07	5	
				Imazalil	0.17	5	
				Pyridaben	0.037	0.5	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Pyriproxyfen	0.028	0.6	
			851046	Acetamiprid	0.06	0.9	
				Chlorpyrifos	0.071	0.3	
				Imazalil	0.71	5	
				Prochloraz	0.05	10	
				Pyridaben	0.024	0.5	
				Pyriproxyfen	0.011	0.6	
				Thiabendazole	0.72	5	
			851107	Chlorpyrifos	0.23	0.3	
				Fenvalerate	0.012	0.02	
				Imazalil	2	5	
				2-Phenylphenol	0.08	5	
				Prochloraz	1.7	10	
				Thiabendazole	0.82	5	
			851167	Buprofezin	0.047	1	
				Chlorpyrifos	0.044	0.3	
				Fenvalerate	0.018	0.02	
				Imazalil	0.42	5	
				Pyrimethanil	0.83	8	
				Pyriproxyfen	0.015	0.6	
				Thiabendazole	0.012	5	
	Lemon	Argentina	851452	2,4-D	0.026	1	
				Carbendazim	0.25	0.7	
				Imazalil	2.4	5	
				2-Phenylphenol	0.53	5	
				Pyrimethanil	0.65	8	
				Thiabendazole	0.45	5	
				Trifloxystrobin	0.012	0.3	
		Italy	850952	None	0	0	Organic
		Spain	850926	Chlorpyrifos	0.019	0.2	
				Imazalil	2.3	5	
				Pyriproxyfen	0.025	0.6	
			851050	Imazalil	2.5	5	
				Propiconazole	0.72	6	
				Pyriproxyfen	0.037	0.6	
				Thiabendazole	1.2	5	
			851233	Chlorpyrifos	0.065	0.2	
				Imazalil	0.94	5	
				Pyrimethanil	0.5	8	
				Pyriproxyfen	0.061	0.6	
			851251	Imazalil	2	5	
			851331	Chlorpyrifos	0.018	0.2	
				Imazalil	0.88	5	
				2-Phenylphenol	0.25	5	
				Pyrimethanil	0.17	8	
				Pyriproxyfen	0.041	0.6	
				Thiabendazole	0.39	5	
			851364	Chlorpyrifos	0.01	0.2	
				Hexythiazox	0.011	1	
				Imazalil	3	5	
				Pyriproxyfen	0.023	0.6	
		Turkey	850992	Chlorpyrifos	0.041	0.2	
				Imazalil	1.7	5	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				2-Phenylphenol	0.12	5	
				Prochloraz	0.12	10	
				Pyrimethanil	1.6	8	
				Pyriproxyfen	0.014	0.6	
				Thiabendazole	0.97	5	
	Limes	Bolivia	851363	Imazalil	0.37	5	
				Thiabendazole	0.96	5	
		Brazil	850958	Imazalil	0.91	5	
				Imidacloprid	0.014	1	
				Pyraclostrobin	0.014	1	
				Thiabendazole	0.23	5	
			851173	Imazalil	0.79	5	
				Pyraclostrobin	0.019	1	
				Tebuconazole	0.01	5	
			851265	2,4-D	0.043	1	
				Imazalil	0.2	5	
				Thiabendazole	0.11	5	
			851316	Carbendazim	0.041	0.7	
				Imazalil	0.32	5	
				2-Phenylphenol	0.014	5	
				Thiabendazole	0.27	5	
		Mexico	850929	Bifenthrin	0.012	0.1	
				Imazalil	0.83	5	
				Thiabendazole	0.36	5	
	Mandarin	Argentina	851451	Azoxystrobin	0.24	15	
				Imazalil	1.5	5	
				Propiconazole	0.22	6	
				Pyrimethanil	0.91	8	
		Greece	850951	None	0	0	Organic
		Morocco	851193	Imazalil	1.6	5	
				2-Phenylphenol	0.083	5	
				Pyrimethanil	1.2	8	
				Thiabendazole	0.018	5	
		S Africa	851323	2,4-D	0.15	1	
				Chlorpyrifos	0.18	2	
				Fenpyroximate	0.082	0.5	
				Imazalil	0.79	5	
				Imidacloprid	0.063	1	
				2-Phenylphenol	0.015	5	
				Pyrimethanil	1.6	8	
				Thiabendazole	0.64	5	
				Trifloxystrobin	0.021	0.3	
			851325	2,4-D	0.16	1	
				Azoxystrobin	0.032	15	
				Buprofezin	0.018	1	
				Imazalil	1.7	5	
				2-Phenylphenol	0.034	5	
				Pyrimethanil	4.7	8	
				Thiabendazole	2.4	5	
			851396	2,4-D	0.075	1	
				Azoxystrobin	0.025	15	
				Imazalil	0.71	5	
				Imidacloprid	0.058	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				2-Phenylphenol	0.013		5
				Pyrimethanil	1.4		8
				Thiabendazole	0.28		5
		Spain	851168	Chlorpyrifos	0.058		2
				Dithiocarbamates	0.26		5
				Imazalil	1.9		5
				2-Phenylphenol	0.26		5
				Propiconazole	0.01		6
				Pyrimethanil	0.01		8
				Thiabendazole	0.01		5
			851248	Chlorpyrifos	0.055		2
				Dithiocarbamates	0.095		5
				Imazalil	1.1		5
				Propiconazole	0.037		6
				Pyrimethanil	0.096		8
				Thiabendazole	0.59		5
	Minneola	Peru	851455	2,4-D	0.22		1
				Buprofezin	0.051		1
				Chlorpyrifos	0.35		2
				Fenpropathrin	0.13		2
				Imazalil	2.6		5
				Pyrimethanil	1.2		8
				Pyriproxyfen	0.036		0.6
				Thiabendazole	2.7		5
			851485	Buprofezin	0.06		1
				Chlorpyrifos	0.036		2
				Hexythiazox	0.018		1
				Imazalil	2.4		5
				2-Phenylphenol	4.1		5
				Thiabendazole	0.72		5
	Orange	Egypt	850956	Chlorpyrifos	0.2		0.3
				Imazalil	1.7		5
				2-Phenylphenol	0.27		5
				Pyrimethanil	0.19		8
				Thiabendazole	0.8		5
			851332	Chlorpyrifos	0.29		0.3
				Chlorpyrifos-Methyl	0.022		0.5
				Imazalil	0.85		5
				2-Phenylphenol	2.5		5
				Pyriproxyfen	0.022		0.6
				Thiabendazole	0.86		5
		Morocco	851007	Imazalil	0.61		5
				Lambda-Cyhalothrin	0.011		0.2
				2-Phenylphenol	0.038		5
				Pyrimethanil	0.86		8
			851104	Chlorpyrifos	0.25		0.3
				Imazalil	0.89		5
				2-Phenylphenol	0.028		5
				Pyrimethanil	0.43		8
		S Africa	851377	2,4-D	0.35		1
				Imazalil	1.9		5
				Pyraclostrobin	0.026		2
				Thiabendazole	1.7		5

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851400	2,4-D	0.12	1	
				Dithiocarbamates	0.096	5	
				Imazalil	1.5	5	
				Imidacloprid	0.012	1	
				Pyraclostrobin	0.022	2	
				Pyrimethanil	0.012	8	
				Thiabendazole	0.91	5	
			851417	2,4-D	0.15	1	
				Chlorantraniliprole	0.013	0.7	
				Imazalil	1.1	5	
				Pyrimethanil	1.4	8	
				Thiabendazole	0.38	5	
		Spain	850934	Chlorpyrifos	0.021	0.3	
				Imazalil	1.4	5	
				2-Phenylphenol	0.35	5	
				Pendimethalin	0.02	0.05	
				Pyrimethanil	0.031	8	
			850980	None	0	0	
			851005	Chlorpyrifos	0.054	0.3	
				Imazalil	2	5	
				Thiabendazole	0.84	5	
			851171	Chlorpyrifos	0.027	0.3	
				Imazalil	1.8	5	
				2-Phenylphenol	0.043	5	
			851230	Chlorpyrifos-Methyl	0.019	0.5	
				Etofenprox	0.031	1	
				Imazalil	1.5	5	
				2-Phenylphenol	0.01	5	
				Pyrimethanil	0.011	8	
			851324	Chlorpyrifos	0.26	0.3	
				Etofenprox	0.021	1	
				Imazalil	3	5	
				2-Phenylphenol	3.2	5	
				Propiconazole	1.2	6	
				Thiabendazole	2	5	
		Turkey	851385	None	0	0	Organic
	Orange Juice	Unknown	851492	None	0	0	Processed
			851493	None	0	0	Processed
			851494	None	0	0	Processed
			851495	None	0	0	Processed
			851496	Imazalil	0.08	5	Processed
				Pyrimethanil	0.04	8	
				Thiabendazole	0.073	5	
			851504	Imazalil	0.098	5	Processed
				Pyrimethanil	0.076	8	
				Thiabendazole	0.23	5	
			851505	None	0	0	Processed
			851506	None	0	0	Processed
			851507	None	0	0	Processed
			851508	None	0	0	Processed
			851514	None	0	0	Processed
			851515	None	0	0	Processed
			851517	None	0	0	Processed

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851518	Imazalil	0.15	5	Processed
				Pyrimethanil	0.11	8	
				Thiabendazole	0.17	5	
	Pomelo	China	851519	None	0	0	Processed
			851077	Chlorpyrifos	0.017	0.3	
				Dithiocarbamates	0.07	5	
				Imazalil	0.017	5	
				Myclobutanyl	0.02	3	
				Prochloraz	0.049	10	
	Satsuma	Peru	851254	Fenpropathrin	0.047	2	
				Fenpyroximate	0.015	0.5	
				Imazalil	1	5	
				2-Phenylphenol	2.8	5	
				Thiabendazole	1.5	5	
			851312	Imazalil	1.4	5	
				2-Phenylphenol	3.7	5	
				Thiabendazole	3.8	5	
			851319	Boscalid	0.013	2	
				Fludioxonil	0.025	10	
				Imazalil	1.1	5	
				2-Phenylphenol	2.7	5	
				Thiabendazole	0.63	5	
			851375	2,4-D	0.2	1	
				Fenpropathrin	0.019	2	
				Imazalil	2.5	5	
				Propiconazole	0.6	6	
				Pyrimethanil	4.3	8	
				Thiabendazole	2.6	5	
			851397	Imazalil	2	5	
				2-Phenylphenol	4.5	5	
				Thiabendazole	2.1	5	
			851415	Fenpropathrin	0.095	2	
				Imazalil	2.1	5	
				2-Phenylphenol	5.3	5	MRL Breach
				Thiabendazole	2.2	5	
		S Africa	851232	2,4-D	0.087	1	
				Imazalil	3.3	5	
				Malathion	0.013	2	
				Pyrimethanil	1.3	8	
				Pyriproxyfen	0.017	0.6	
				Thiabendazole	3.9	5	
			851249	2,4-D	0.095	1	
				Imazalil	1.9	5	
				Malathion	0.012	2	
				Pyrimethanil	1.3	8	
				Pyriproxyfen	0.015	0.6	
				Thiabendazole	0.91	5	
			851263	Chlorfenapyr	0.022	0.01	MRL Breach
				Dithiocarbamates	0.07	5	
				Imazalil	2.5	5	
				2-Phenylphenol	0.05	5	
				Pyraclostrobin	0.042	1	
				Pyrimethanil	3.8	8	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE		
POME FRUIT	Apple	Spain	851267	Thiabendazole	2.9	5			
				2,4-D	0.21	1			
				Cypermethrin	0.042	2			
			851606	Imazalil	1.1	5			
				Pyrimethanil	1.7	8			
				Thiabendazole	0.16	5			
				Imazalil	1.6	5			
				Austria	851258	Captan	0.039	3	
					850937	Dithiocarbamates	0.067	5	
						Fenoxycarb	0.026	1	
		Spirodiclofen	0.032	0.8					
		Belgium	851010	None	0	0			
			851108	Boscalid	0.038	2			
		Brazil	851195	851108	Pyraclostrobin	0.022	0.5		
					Cyprodinil	0.081	1		
					Fludioxonil	0.044	5		
				851213	Captan	0.075	3		
					Carbendazim	0.02	0.2		
					Chlorpyrifos	0.012	0.5		
					Phosmet	0.022	0.5		
					Carbendazim	0.024	0.2		
					Chlorothalonil	0.01	1		
					Chlorpyrifos	0.046	0.5		
					Difenoconazole	0.015	0.5		
					Dithiocarbamates	1.6	5		
					Dodine	0.018	0.9		
					Fenitrothion	0.023	0.01	MRL Breach	
					Phosmet	0.034	0.5		
					Pyrimethanil	0.024	7		
					Spirodiclofen	0.011	0.8		
					Trifloxystrobin	0.04	0.5		
					851277	Acetamiprid	0.024	0.8	
		Carbendazim	0.034	0.2					
		Chlorpyrifos	0.027	0.5					
		Phosmet	0.018	0.5					
		Pyraclostrobin	0.031	0.5					
		851279	Spirodiclofen	0.022	0.8				
			Acetamiprid	0.13	0.8				
			Captan	0.44	3				
		851314	Etofenprox	0.037	1				
Acetamiprid	0.023		0.8						
Carbendazim	0.039		0.2						
Etofenprox	0.059		1						
2-Phenylphenol	0.014		0.05						
Phosmet	0.044		0.5						
851315	Pyraclostrobin	0.017	0.5						
	Acetamiprid	0.017	0.8						
	Phosmet	0.028	0.5						
851351	Acetamiprid	0.019	0.8						
	Carbendazim	0.022	0.2						
	Etofenprox	0.027	1						
851355	Phosmet	0.044	0.5						
	Acetamiprid	0.043	0.8						

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Chlorpyrifos	0.046	0.5	
				Cyprodinil	0.016	1	
				Fenitrothion	0.012	0.01	MRL Breach
			851372	Carbendazim	0.05	0.2	
				Chlorantraniliprole	0.022	0.5	
				Dodine	0.014	0.9	
				Folpet	0.041	3	
				Phosmet	0.2	0.5	
				Pyraclostrobin	0.038	0.5	
			851409	Acetamiprid	0.017	0.8	
				Chlorpyrifos	0.029	0.5	
				Dithiocarbamates	0.34	5	
				Phosmet	0.03	0.5	
			851412	Carbendazim	0.025	0.2	
				Dithiocarbamates	0.56	5	
				Phosmet	0.053	0.5	
				Pyraclostrobin	0.021	0.5	
			851426	Acetamiprid	0.048	0.8	
				Carbendazim	0.02	0.2	
				Dithiocarbamates	1.7	5	
				Etofenprox	0.043	1	
				Pyraclostrobin	0.011	0.5	
		Canary	851327	Indoxacarb	0.016	0.5	
				Phosmet	0.016	0.5	
				Pyrimethanil	1.1	15	
		Chile	851339	Acetamiprid	0.011	0.8	
				Methoxyfenozide	0.011	2	
				Pyrimethanil	0.1	15	
			851421	Dithiocarbamates	0.06	5	
				Pyrimethanil	0.94	15	
				Spirodiclofen	0.016	0.8	
			851471	Acetamiprid	0.012	0.8	
				Chlorantraniliprole	0.011	0.5	
				Pyrimethanil	0.65	15	
				Thiacloprid	0.02	0.3	
			851490	Pyrimethanil	0.43	15	
				Spirodiclofen	0.011	0.8	
		France	850911	Chlorpyrifos	0.011	0.5	
				Fludioxonil	0.02	5	
			850959	Fludioxonil	0.018	5	
			850988	Fludioxonil	0.19	5	
			850993	None	0	0	
			851034	Boscalid	0.042	2	
				Fludioxonil	0.065	5	
				Pirimicarb	0.044	2	
				Pyraclostrobin	0.02	0.5	
			851040	Pyrimethanil	0.13	7	
			851144	Diphenylamine	0.06	0.1	
				Fludioxonil	0.14	5	
				2-Phenylphenol	0.01	0.05	
			851187	Captan	0.72	3	
				Fludioxonil	0.055	5	
			851218	Fludioxonil	0.15	5	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851280	Boscalid	0.024	2	
				Fludioxonil	0.027	5	
				Pyraclostrobin	0.012	0.5	
			851281	Fludioxonil	0.088	5	
			851328	Boscalid	0.061	2	
				Captan	0.14	3	
				Pyraclostrobin	0.043	0.5	
			851427	None	0	0	
			851456	None	0	0	
			851477	Chlorpyrifos	0.011	0.5	
			851532	Dodine	0.013	0.9	
				Fludioxonil	0.033	5	
				Pirimicarb	0.013	2	
		Germany	850925	Difenoconazole	0.016	0.5	
				Trifloxystrobin	0.03	0.5	
		Italy	850950	None	0	0	Organic
			851204	None	0	0	Organic
			851259	Captan	0.2	3	
				Dodine	0.051	0.9	
		New Zealand	851257	Chlorantraniliprole	0.01	0.5	
				Dithiocarbamates	0.12	5	
				Tebufenozide	0.01	1	
			851533	None	0	0	
		Poland	851009	Chlorantraniliprole	0.012	0.5	
				Indoxacarb	0.01	0.5	
			851106	Boscalid	0.096	2	
				Chlorantraniliprole	0.013	0.5	
				Flonicamid	0.013	0.2	
				Indoxacarb	0.015	0.5	
				Pyraclostrobin	0.043	0.5	
			851261	Boscalid	0.027	2	
				Cyprodinil	0.074	1	
				Dithiocarbamates	0.11	5	
				Fludioxonil	0.037	5	
				Indoxacarb	0.016	0.5	
				Pirimicarb	0.035	2	
				Pyraclostrobin	0.011	0.5	
				Spirodiclofen	0.015	0.8	
		Portugal	850931	Carbendazim	0.13	0.2	
				Chlorpyrifos	0.071	0.5	
				Difenoconazole	0.022	0.5	
				Folpet	0.02	3	
				Imazalil	0.029	2	
				Lambda-Cyhalothrin	0.013	0.1	
		S Africa	851337	Chlorantraniliprole	0.032	0.5	
				Indoxacarb	0.018	0.5	
			851420	Chlorantraniliprole	0.01	0.5	
				Dithiocarbamates	0.22	5	
				Indoxacarb	0.011	0.5	
			851608	Difenoconazole	0.031	0.8	
				Fludioxonil	0.93	5	
	Apples Cooking	Ireland	851271	None	0	0	
		UK	850979	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
	Pear	Argentina	851128	None	0	0	Organic
			851201	None	0	0	Organic
		Chile	851411	Chlorantraniliprole	0.069	0.5	
				Methoxyfenozide	0.021	2	
				Pyrimethanil	0.12	15	
			851453	Chlorantraniliprole	0.086	0.5	
				Imazalil	0.022	2	
				Methoxyfenozide	0.018	2	
				Pyrimethanil	0.21	15	
		Portugal	850906	Boscalid	0.13	2	
				Flonicamid	0.012	0.2	
				Folpet	0.053	3	
				Imazalil	0.6	2	
				Pyraclostrobin	0.04	0.5	
				Tebuconazole	0.025	0.3	
			850960	Boscalid	0.022	2	
				Difenoconazole	0.034	0.5	
				Folpet	0.17	3	
				Imazalil	0.83	2	
				Lambda-Cyhalothrin	0.015	0.1	
				Phosmet	0.054	0.5	
				Pyraclostrobin	0.01	0.5	
				Thiabendazole	0.011	5	
			850971	Chlorpyrifos	0.13	0.5	
				Difenoconazole	0.02	0.5	
				Diflubenzuron	0.055	5	
				Dithiocarbamates	0.17	5	
				Folpet	0.058	3	
				Imazalil	1	2	
				Kresoxim-Methyl	0.013	0.2	
				Lambda-Cyhalothrin	0.066	0.1	
				Thiabendazole	0.01	5	
			850989	Dithiocarbamates	0.42	5	
				Fludioxonil	0.15	5	
				Fluopyram	0.11	0.5	
				Folpet	0.38	3	
				Imazalil	0.72	2	
				Tebuconazole	0.12	0.3	
			851019	Boscalid	0.027	2	
				Fluopyram	0.024	0.5	
				Imazalil	0.25	2	
			851048	Fluopyram	0.02	0.5	
				Imazalil	0.35	2	
				Lambda-Cyhalothrin	0.038	0.1	
				Phosmet	0.023	0.5	
			851072	Boscalid	0.075	2	
				Dithiocarbamates	0.49	5	
				Fluopyram	0.038	0.5	
				Folpet	0.051	3	
				Imazalil	0.56	2	
				Pyraclostrobin	0.023	0.5	
				Tebuconazole	0.015	0.3	
			851152	Boscalid	0.23	2	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Carbendazim	0.021	0.2	
				Dithiocarbamates	0.35	5	
				Fenoxycarb	0.023	1	
				Folpet	0.66	3	
				Imazalil	0.92	2	
				Pyraclostrobin	0.073	0.5	
				Tebuconazole	0.021	0.3	
				Thiabendazole	0.028	5	
			851178	Boscalid	0.32	2	
				Carbendazim	0.11	0.2	
				Deltamethrin	0.013	0.1	
				Difenoconazole	0.05	0.5	
				Fluopyram	0.078	0.5	
				Folpet	0.84	3	
				Imazalil	0.46	2	
				Iprodione	0.33	5	
				Lambda-Cyhalothrin	0.046	0.1	
				Pyraclostrobin	0.1	0.5	
				Tebuconazole	0.015	0.3	
				Thiabendazole	0.013	5	
				Thiacloprid	0.07	0.3	
				Thiophanate-Methyl	0.1	0.5	
				Trifloxystrobin	0.01	0.5	
		S Africa	851227	Dithiocarbamates	0.59	5	
				Pyrimethanil	0.33	15	
				Thiacloprid	0.032	0.3	
			851270	Dithiocarbamates	0.0901	5	
			851318	Acetamiprid	0.037	0.8	
				Chlorantraniliprole	0.034	0.5	
				Pyrimethanil	0.39	7	
			851352	Indoxacarb	0.011	0.5	
			851450	Acetamiprid	0.026	0.8	
				Chlorantraniliprole	0.036	0.5	
				Pyrimethanil	0.019	15	
				Thiacloprid	0.042	0.3	
STONE FRUIT	Apricots	S Africa	850930	Azoxystrobin	0.018	2	
				Fludioxonil	0.29	5	
				Iprodione	0.051	3	
				Lambda-Cyhalothrin	0.017	0.2	
				Pyrimethanil	0.37	10	
			851045	Lambda-Cyhalothrin	0.021	0.2	
	Cherry	Chile	850938	Acetamiprid	0.078	1.5	
				Iprodione	0.86	3	
				Tebuconazole	0.064	1	
			851014	Acetamiprid	0.15	1.5	
				Chlorantraniliprole	0.017	1	
				Fenbuconazole	0.13	1	
				Iprodione	0.64	3	
				Tebuconazole	0.21	1	
		Spain	851398	None	0	0	
	Nectarine	Chile	851176	Chlorantraniliprole	0.017	1	
				Clothianidin	0.014	0.1	
				Fludioxonil	0.045	10	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE		
BERRIES AND SMALL FRUIT	Peach	S Africa	851078	Pyrimethanil	0.018	10			
				Azoxystrobin	0.023	2			
				Dithiocarbamates	0.07	2			
				Fenbuconazole	0.012	0.5			
				Fludioxonil	0.22	10			
		851142	Cypermethrin	0.017	2				
			Fenbuconazole	0.054	0.5				
			Fludioxonil	0.15	10				
			Spain	851309	Myclobutanyl	0.031	0.5		
				851454	Chlorpyrifos	0.021	0.2		
		Cyprodinil		0.33	2				
		Portugal	851371	Fludioxonil	0.11	10			
				Fluopyram	0.015	1.5			
				Pyrimethanil	0.011	10			
				S Africa	850940	Fenbuconazole	0.017	0.5	
	Spain			851255	Boscalid	0.016	3		
	Plum	Chile	851170	Fenhexamid	0.011	5			
				Fludioxonil	0.015	10			
				2-Phenylphenol	0.012	0.05			
				Thiabendazole	0.013	0.05			
				None	0	0			
		851228	Fludioxonil	0.018	5				
			Pyrimethanil	0.026	2				
			851253	Boscalid	0.012	3			
				Fludioxonil	0.81	5			
				Pyrimethanil	1	2			
		851262	Tebuconazole	0.01	1				
			Iprodione	0.011	3				
			Pyrimethanil	0.61	2				
			Tebuconazole	0.018	1				
			S Africa	851012	None	0	0		
	Blackberry	Mexico	850963	None	0	0			
				None	0	0			
				None	0	0			
				Fludioxonil	0.7	5			
				Imazalil	0.02	0.05			
		851272	Iprodione	0.22	3				
			Cypermethrin	0.023	0.5				
			Blueberry	Chile	850962	Iprodione	0.014	10	
						Boscalid	0.016	10	
Chlorantraniliprole						0.024	1.5		
Fenhexamid	0.035	5							
Phosmet	0.035	10							
850976	Cyprodinil	0.011	5						
	Fenhexamid	0.012	5						
	Fludioxonil	0.021	2						
	Phosmet	0.042	10						
	851064	Boscalid	0.021	10					
Fenhexamid		0.037	5						
Imidacloprid		0.029	5						
Phosmet		0.27	10						
851122		None	0	0					
851169	Chile	851169	Boscalid	0.011	10				
			Phosmet	0.25	10				

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
		Italy	851405	Boscalid	0.011	10	
		Morocco	851060	None	0	0	
			851276	None	0	0	
		Poland	851422	None	0	0	
		Spain	851274	None	0	0	
	Raspberry	Holland	851423	Boscalid	0.068	10	
				Iprodione	0.26	10	
				Thiacloprid	0.049	3	
		Morocco	850955	None	0	0	
		Spain	851062	None	0	0	
			851273	Fenhexamid	0.12	10	
	Strawberry	Ireland	851234	Azoxystrobin	0.058	10	
				Captan	0.04	3	
				Cyprodinil	0.054	5	
				Fludioxonil	0.036	4	
				Iprodione	0.11	15	
				Myclobutanyl	0.017	1	
				Pirimicarb	0.13	3	
				Thiacloprid	0.059	1	
			851236	Bupirimate	0.055	1	
				Cyprodinil	0.021	5	
				Fenhexamid	0.63	5	
				Fludioxonil	0.017	4	
				Iprodione	0.74	15	
				Myclobutanyl	0.11	1	
			851275	Boscalid	0.2	10	
				Bupirimate	0.06	1	
				Cyprodinil	0.035	5	
				Ethirimol	0.02	0.2	
				Fenhexamid	0.023	5	
				Fludioxonil	0.037	4	
				Iprodione	0.091	15	
				Mepanipyrim	0.061	1.5	
				Myclobutanyl	0.021	1	
				Pyraclostrobin	0.041	1.5	
				Quinoxifen	0.011	0.3	
			851311	Azoxystrobin	0.079	10	
				Bupirimate	0.024	2	
				Iprodione	0.079	15	
				Piperonyl Butoxide	0.014	na	
				Pirimicarb	0.017	3	
			851329	Azoxystrobin	0.1	10	
				Cyprodinil	0.046	5	
				Fenhexamid	0.074	5	
				Fludioxonil	0.036	4	
				Iprodione	0.36	15	
				Myclobutanyl	0.02	1	
				Pirimicarb	0.49	3	
				Quinoxifen	0.014	0.3	
				Thiacloprid	0.064	1	
			851425	Azoxystrobin	0.18	10	
				Fenhexamid	0.023	5	
				Myclobutanyl	0.093	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Pirimicarb	0.028	3	
			851475	Azoxystrobin	0.45	10	
				Boscalid	0.25	10	
				Cyprodinil	0.08	5	
				Dimethomorph	0.18	0.7	
				Etoazole	0.04	0.2	
				Fludioxonil	0.04	4	
				Iprodione	0.53	15	
				Mepanipyrim	0.026	1.5	
				Myclobutanyl	0.29	1	
				Pyraclostrobin	0.031	1.5	
				Pyrimethanil	3.5	5	
				Quinoxyfen	0.2	0.3	
				Tebufenpyrad	0.073	0.5	
				Thiacloprid	0.055	1	
			851555	Azoxystrobin	0.075	10	
				Boscalid	0.19	10	
				Bupirimate	0.01	2	
				Fenhexamid	0.23	5	
				Iprodione	0.059	20	
				Kresoxim-Methyl	0.029	1	
				Mepanipyrim	0.063	1.5	
				Myclobutanyl	0.041	1	
				Pyraclostrobin	0.027	1.5	
				Thiacloprid	0.041	1	
			851563	Azoxystrobin	0.25	10	
				Boscalid	0.11	10	
				Bupirimate	0.61	2	
				Cyprodinil	0.023	5	
				Ethirimol	0.032	0.2	
				Fenhexamid	1	5	
				Fludioxonil	0.026	4	
				Iprodione	0.3	20	
				Myclobutanyl	0.16	1	
				Pyraclostrobin	0.019	1.5	
				Pyrimethanil	2.4	5	
				Thiacloprid	0.13	1	
			851610	Azoxystrobin	0.15	10	
				Boscalid	0.35	10	
				Bupirimate	0.014	2	
				Fenhexamid	0.025	5	
				Iprodione	0.6	20	
				Myclobutanyl	0.01	1	
				Pyraclostrobin	0.15	1.5	
				Pyrimethanil	0.2	5	
				Tebufenpyrad	0.014	0.5	
				Thiacloprid	0.059	1	
		Morocco	851063	Cyprodinil	0.087	5	
				Fludioxonil	0.12	4	
		Spain	850939	Penconazole	0.026	0.5	
			851061	Iprodione	0.35	15	
				Kresoxim-Methyl	0.012	1	
				Myclobutanyl	0.17	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Triadimenol	0.19	0.5	
				Trifloxystrobin	0.073	1	
			851075	Azoxystrobin	0.27	10	
				Difenoconazole	0.11	0.4	
				Quinoxifen	0.059	0.3	
				Trifloxystrobin	0.058	1	
			851185	Azoxystrobin	0.028	10	
				Clofentezine	0.013	2	
				Difenoconazole	0.014	0.4	
				Quinoxifen	0.017	0.3	
				Trifloxystrobin	0.047	1	
			851223	Bupirimate	0.014	1	
				Etoxazole	0.034	0.2	
				Myclobutanyl	0.048	1	
	Table Grape	Brazil	851609	Bifenthrin	0.049	0.2	
				Difenoconazole	0.15	3	
				Dimethomorph	0.72	3	
				Famoxadone	0.021	2	
				Fenamidone	0.035	0.5	
				Lambda-Cyhalothrin	0.1	0.2	
		Chile	851194	Pyrimethanil	0.01	5	
			851224	Azoxystrobin	0.016	2	
				Bifenthrin	0.027	0.2	
				Boscalid	0.79	5	
				Fenhexamid	2.5	5	
			851250	Bifenthrin	0.063	0.2	
				Boscalid	0.011	5	
				Fenhexamid	0.049	5	
				Imidacloprid	0.19	1	
			851252	Boscalid	0.57	5	
				Ethephon	0.037	0.7	
				Fenhexamid	0.61	5	
			851269	Boscalid	0.44	5	
				Cyprodinil	0.011	5	
				Fenhexamid	0.77	5	
				Fludioxonil	0.01	5	
			851317	Boscalid	1	5	
				Cyprodinil	0.82	5	
				Fenhexamid	0.2	5	
				Fludioxonil	0.59	5	
				Imidacloprid	0.074	1	
				Iprodione	0.083	10	
				Pyraclostrobin	0.11	1	
				Quinoxifen	0.016	1	
				Triflumuron	0.017	0.2	
		Egypt	851374	None	0	0	
			851424	Ethephon	0.16	1	
				Fenhexamid	0.037	5	
		India	851146	Azoxystrobin	0.011	2	
				Buprofezin	0.025	1	
				Famoxadone	0.035	2	
				Mandipropamid	0.01	2	
				Myclobutanyl	0.017	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Pyraclostrobin	0.051		1
				Triadimenol	0.019		2
			851198	Azoxystrobin	0.01		2
				Buprofezin	0.013		1
				Dimethomorph	0.051		3
				Imidacloprid	0.011		1
				Mandipropamid	0.014		2
				Tetraconazole	0.013		0.5
		Peru	850928	Boscalid	0.038		5
				Cyprodinil	0.087		5
				Ethephon	0.081		0.7
				Fludioxonil	0.04		5
		S Africa	850927	None	0		0
			850954	Ethephon	0.094		0.7
				Famoxadone	0.082		2
			850990	Iprodione	0.2		10
			851047	None	0		0
			851055	Fluopyram	0.4		1.5
			851145	Fenhexamid	0.044		5
		Spain	851408	Boscalid	1.1		5
				Spinosad	0.033		0.5
				Trifloxystrobin	0.13		5
			851449	Cyazofamid	0.015		2
				Myclobutanyl	0.056		1
				Spirotetramat	0.044		2
				Trifloxystrobin	0.026		5
MISCELLANEOUS FRUIT	Avocados	Kenya	851373	Thiabendazole	0.048		15
		Peru	851237	Thiabendazole	0.015		15
			851292	None	0		0 Organic
		Spain	850974	None	0		0
	Banana	Belize	851461	Azoxystrobin	0.24		2
				Chlorpyrifos	0.011		3
				Imazalil	0.56		2
			851633	Azoxystrobin	0.19		2
				Chlorpyrifos	0.013		3
				Imazalil	0.38		2
			851635	Azoxystrobin	0.1		2
				Imazalil	0.34		2
		Colombia	851460	Imazalil	0.4		2
				Thiabendazole	0.44		5
		Costa Rica	851338	Bifenthrin	0.01		0.1
				Imazalil	0.12		2
				Thiabendazole	0.1		5
			851463	Azoxystrobin	0.047		2
				Imazalil	0.17		2
			851634	Azoxystrobin	0.18		2
				Bifenthrin	0.027		0.1
				Imazalil	0.35		2
		Dom Rep	851264	None	0		0
			851334	None	0		0 Organic
			851335	None	0		0
			851632	None	0		0 Organic
		Ecuador	851032	Chlorpyrifos	0.011		3

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Imazalil	0.27	2	
				Thiabendazole	0.18	5	
		Guatemala	851459	Azoxystrobin	0.22	2	
				Chlorpyrifos	0.019	3	
		Honduras	851462	Azoxystrobin	0.12	2	
				Bifenthrin	0.083	0.1	
				Buprofezin	0.012	0.5	
				Fenpropimorph	0.041	2	
				Imazalil	0.41	2	
		Surinam	851033	Myclobutanyl	0.28	2	
				Thiabendazole	0.27	5	
	Dates	Israel	850947	None	0	0	
	Dragon Fruit	Vietnam	850946	Azoxystrobin	0.013	0.05	
	Granadilla	Colombia	851207	Carbendazim	0.18	0.1	MRL Breach
				Chlorothalonil	0.026	0.01	MRL Breach
				Difenoconazole	0.078	0.1	
				Flusilazole	0.011	0.01	MRL Breach
				Lambda-Cyhalothrin	0.022	0.02	MRL Breach
	Kiwi	Chile	851313	Dodine	0.043	0.05	
				2-Phenylphenol	0.029	0.05	
		Greece	850957	None	0	0	
			851008	None	0	0	
			851059	None	0	0	
		Italy	850941	Imazalil	0.014	0.05	
				Thiabendazole	0.01	0.05	
			851129	None	0	0	Organic
			851172	None	0	0	
			851256	Fludioxonil	4.1	15	
				lprodione	0.018	5	
		New Zealand	851268	None	0	0	
			851419	Imazalil	0.025	0.05	
				Thiabendazole	0.023	0.05	
	Kiwi Berries	Chile	851124	None	0	0	
	Mangoes	Brazil	850912	Thiabendazole	2.4	5	
			850975	Azoxystrobin	0.012	0.7	
				Carbendazim	0.052	0.5	
				Thiabendazole	0.014	5	
			851039	Thiabendazole	0.27	5	
			851127	Thiabendazole	2	5	
			851141	Thiabendazole	0.79	5	
			851231	Thiabendazole	0.65	5	
		Guatemala	851286	Thiabendazole	3.7	5	
		Senegal	851413	Boscalid	0.044	0.05	
				Prochloraz	0.044	5	
			851430	None	0	0	
	Mangosteens	Thailand	851380	Chlorpyrifos	0.01	0.05	
	Papaya	Brazil	851052	Azoxystrobin	0.053	0.3	
				Imidacloprid	0.055	0.05	MRL Breach
				Thiabendazole	0.19	10	
		Ecuador	851205	Prochloraz	0.17	5	
	Passion Fruit	Colombia	850944	Carbendazim	0.049	0.1	
				Deltamethrin	0.022	0.05	
				Pyrimethanil	0.11	0.01	MRL Breach

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
	Persimmon	S Africa	851289	None	0	0	
	Pineapples	Costa Rica	851030	Piperonyl Butoxide	0.17	na	
				Triadimefon	0.21	3	
				Triadimenol	0.33	3	
			851197	Prochloraz	0.11	5	
				Triadimefon	0.092	3	
				Triadimenol	0.1	3	
	Pomegranate	Israel	851035	Fludioxonil	0.1	3	
		Peru	851217	None	0	0	
		Spain	850913	Fludioxonil	0.25	3	
				Thiamethoxam	0.013	0.05	
ROOT AND TUBER VEGETABLES	Carrots	France	851326	None	0	0	
			851341	Linuron	0.034	0.2	
				Pendimethalin	0.01	0.2	
			851342	Linuron	0.025	0.2	
			851401	None	0	0	
		Ireland	851159	Cyprodinil	0.019	2	
				Fludioxonil	0.029	1	
			851432	None	0	0	
			851464	None	0	0	
			851476	None	0	0	
			851525	Linuron	0.045	0.2	
			851549	Pendimethalin	0.014	0.7	
			851599	Boscalid	0.012	2	
		Italy	851202	None	0	0	Organic
			851383	None	0	0	Organic
		Spain	851066	Azoxystrobin	0.01	1	
				Linuron	0.018	0.2	
			851137	None	0	0	
			851211	None	0	0	
			851225	Boscalid	0.011	2	
				Fenhexamid	0.02	0.05	
				Fluazifop Free Acid	0.021	0.3	
		UK	851147	Boscalid	0.014	2	
			851291	None	0	0	Organic
	Parsnips	Ireland	851074	Azoxystrobin	0.019	1	
				Cyprodinil	0.063	2	
				Fludioxonil	0.1	1	
			851162	Azoxystrobin	0.016	1	
				Linuron	0.013	0.2	
			851439	None	0	0	
			851472	None	0	0	
			851484	Boscalid	0.018	2	
				Linuron	0.049	0.2	
			851535	Mandipropamid	0.01	0.01	
			851536	Boscalid	0.018	2	
			851604	Azoxystrobin	0.016	1	
			851657	Tebuconazole	0.013	0.4	
		Spain	851174	Azoxystrobin	0.014	1	
				Boscalid	0.028	2	
				Difenoconazole	0.01	0.4	
				Linuron	0.016	0.2	
				Tebuconazole	0.011	0.4	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE		
FRUITING VEGETABLES	Potatoes	Cyprus	851399	None	0	0			
			851346	Chlorpropham	0.01	10			
			851434	Chlorpropham	0.018	10			
		France	851330	None	0	0			
			Ireland	850908	Chlorpropham	0.01	10		
		850970		Chlorpropham	0.34	10			
				Imazalil	0.41	3			
		851023	Chlorpropham	0.33	10				
			Imazalil	0.14	3				
		851071	None	0	0				
		851139	Chlorpropham	0.54	10				
			Imazalil	0.12	3				
		851182	Chlorpropham	0.061	10				
			Imazalil	0.026	3				
		851210	Chlorpropham	0.74	10				
			Imazalil	0.076	3				
			Trifluralin	0.016	0.01	MRL Breach			
		851244	Chlorpropham	2.2	10				
	Imazalil		0.24	3					
	851386	Azoxystrobin	0.031	7					
		Fludioxonil	0.028	5					
	851553	Mandipropamid	0.01	0.01					
	851560	Imazalil	0.2	3					
	UK	Radishes	851433	None	0	0			
			851529	None	0	0			
			851125	None	0	0			
	Morocco	Swedes	Ireland	851158	None	0	0		
				851369	Chlorpyrifos	0.025	0.05		
	Sweet Potatoes	Ireland	United States	851389	Chlorpyrifos	0.026	0.05		
				851466	None	0	0		
				851530	None	0	0		
				851602	None	0	0		
				Honduras	851150	Bifenthrin	0.034	0.05	
					Spain	851524	None	0	0
				United States		850936	Fludioxonil	0.23	10
					851116	Fludioxonil	0.27	10	
						Piperonyl Butoxide	0.019	na	
				851287	Fludioxonil	0.14	10		
	Turnips	Ireland	851562	None	0	0			
	Aubergines	Holland	Spain	851208	None	0	0		
				851307	None	0	0		
				851353	None	0	0		
851428				Chlorantraniliprole	0.015	0.6			
851038				None	0	0			
851073				Chlorothalonil	0.017	2			
851111				Acetamiprid	0.094	0.2			
				Imidacloprid	0.011	0.5			
				Spinosad	0.015	1			
851126				Pyriproxyfen	0.02	1			
851134				Acetamiprid	0.06	0.2			
				Bupirimate	0.012	2			
				Cypermethrin	0.034	0.5			
				Fenhexamid	0.011	1			

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Imidacloprid	0.018	0.5	
				Pyriproxyfen	0.034	1	
			851157	None	0	0	
			851365	None	0	0	
			851631	Chlorothalonil	0.039	6	
	Chilli Pepper	Uganda	851028	Imidacloprid	0.011	0.5	
				Azoxystrobin	0.2	3	
				Fenhexamid	0.068	2	
	Courgettes	Ireland	851387	Imidacloprid	0.44	1	
				Dieldrin	0.01	0.05	
		Spain	850914	Imidacloprid	0.01	1	
			851110	Imidacloprid	0.031	1	
				Propamocarb	0.02	5	
			851215	Fludioxonil	0.022	1	
				Imidacloprid	0.014	1	
	Cucumbers	Ireland	851531	Thiacloprid	0.02	0.3	
		Spain	850910	None	0	0	
				Dimethomorph	0.012	0.5	
				Fenhexamid	0.027	1	
			850968	Cyazofamid	0.052	0.2	
				Metrafenone	0.011	0.15	
				Propamocarb	0.14	5	
				Spinosad	0.011	1	
				Triadimenol	0.057	0.2	
			851021	Cyprodinil	0.06	0.5	
				Dimethomorph	0.014	0.5	
				Fludioxonil	0.012	0.4	
				Iprodione	0.023	2	
				Pyrimethanil	0.031	0.7	
			851058	Chlorothalonil	0.041	1	
				Dieldrin	0.015	0.02	
			851179	Azoxystrobin	0.062	1	
				Chlorothalonil	0.12	1	
				Propamocarb	0.03	5	
				Thiophanate-Methyl	0.026	0.1	
			851203	None	0	0	Organic
			851656	Chlorothalonil	0.099	5	
				Cyazofamid	0.039	0.2	
				Cyprodinil	0.024	0.5	
				Propamocarb	0.078	5	
	Melons	Ecuador	851290	Imidacloprid	0.011	0.5	
	Pepper	Holland	851523	Chlorantraniliprole	0.013	1	
				Pirimicarb	0.014	1	
				Pyridalyl	0.012	2	
		Spain	850903	Azoxystrobin	0.01	3	
				Metrafenone	0.019	2	
			850935	Cyprodinil	0.037	1	
				Fludioxonil	0.022	1	
				Metrafenone	0.021	2	
			850945	Flutriafol	0.24	1	
				Spiromesifen	0.02	0.5	
				Tebuconazole	0.02	0.6	
			851016	Flutriafol	0.013	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851027	Boscalid	0.071	3	
				Pyraclostrobin	0.029	0.5	
			851057	Fludioxonil	0.014	1	
				Flutriafol	0.059	1	
				Triadimenol	0.043	1	
			851076	Cyprodinil	0.014	1	
				Fludioxonil	0.14	1	
				Flutriafol	0.15	1	
				Indoxacarb	0.066	0.3	
			851109	Fludioxonil	0.047	1	
				Flutriafol	0.056	1	
				Pyrimethanil	0.096	2	
				Spiromesifen	0.014	0.5	
			851133	Fludioxonil	0.011	1	
				Metrafenone	0.024	2	
			851177	Flutriafol	0.01	1	
				Pyriproxyfen	0.013	1	
			851188	Azoxystrobin	0.22	3	
				Kresoxim-Methyl	0.062	1	
				Pymetrozine	0.048	1	
				Triadimenol	0.26	1	
				Trifloxystrobin	0.043	0.3	
			851627	Flutriafol	0.013	1	
				Pyriproxyfen	0.48	1	
			851628	Metrafenone	0.013	2	
				Spiromesifen	0.01	0.5	
			851629	Fludioxonil	0.011	1	
				Flutriafol	0.63	1	
				Pyriproxyfen	0.03	1	
				Spiromesifen	0.036	0.5	
			851630	Chlorantraniliprole	0.038	1	
				Flutriafol	0.019	1	
	Summer Squash	Peru	851288	Triadimenol	0.012	0.2	
		S Africa	851379	DDAC	0.17	0.1	MRL Breach
				Dieldrin	0.054	0.05	MRL Breach
				Pentachloro-Aniline	0.02	0.02	
	Tomato	Ireland	851216	Dimethomorph	0.022	1	
				Fluopyram	0.16	0.9	
			851457	Fluopyram	0.057	0.9	
		Italy	850917	Difenoconazole	0.056	2	
			851153	Carbendazim	0.05	0.3	
				Difenoconazole	0.02	2	
				Metalaxyl	0.011	0.2	
			851229	None	0	0	
		Morocco	851026	Boscalid	0.01	3	
				Difenoconazole	0.034	2	
				Dithiocarbamates	0.08	3	
				Fluopyram	0.041	0.9	
				Iprodione	0.013	5	
				Mandipropamid	0.018	3	
				Spiromesifen	0.015	1	
				Trifloxystrobin	0.012	0.5	
		Spain	850924	Chlorothalonil	0.029	2	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE				
BRASSICA VEGETABLES				Dithiocarbamates	0.1	3					
				Pyridaben	0.017	0.3					
				Pyrimethanil	0.021	1					
				Pyriproxyfen	0.044	1					
				850949	None	0	0	Organic			
				850986	Acrinathrin	0.016	0.1				
					Chlorothalonil	0.013	2				
					Dithiocarbamates	0.05	3				
					Flonicamid	0.042	0.3				
					Imidacloprid	0.026	0.5				
					Pyriproxyfen	0.028	1				
				851049	Acrinathrin	0.014	0.1				
					Benthiavalicarb-Isop	0.01	0.3				
					Chlorothalonil	0.013	2				
					Flonicamid	0.051	0.3				
					Imidacloprid	0.07	0.5				
					Mepanipyrim	0.018	0.8				
					Pyriproxyfen	0.041	1				
				851131	None	0	0	Organic			
				851132	None	0	0	Organic			
				851376	Chlorantraniliprole	0.12	0.6				
					Chlorpyrifos-Methyl	0.28	0.5				
					Pyrimethanil	0.011	1				
					Pyriproxyfen	0.095	1				
					Watermelons	Costa Rica	851189	Dithiocarbamates	0.05	1.5	
					Winter Squash	Spain	850969	None	0	0	
					Broccoli	Ireland	851465	None	0	0	
							851474	None	0	0	
							851488	None	0	0	
							851551	None	0	0	
						Jordan	851102	None	0	0	
						Kenya	851154	Thiacloprid	0.022	0.1	
							851282	None	0	0	
						Spain	850902	None	0	0	
							850991	Chlorothalonil	0.026	5	
								Difenoconazole	0.016	1	
							851051	None	0	0	
							851101	None	0	0	
							851148	None	0	0	
							851156	Spinosad	0.041	2	
							851181	Imidacloprid	0.014	0.5	
								Metalaxyl	0.016	0.2	
			851214	None	0	0	Organic				
			851243	Chlorothalonil	0.015	5					
				Imidacloprid	0.022	0.5					
				Metalaxyl	0.017	0.2					
	Brussels Sprouts	Ireland	851600	Difenoconazole	0.048	0.2					
				Tebuconazole	0.015	0.7					
	Cauliflower	France	850948	None	0	0					
			851036	None	0	0	Organic				
			851113	Fluazifop Free Acid	0.12	0.2					
			851155	None	0	0					
			Ireland	851245	None	0	0				

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE		
			851534	None	0	0			
			851554	None	0	0			
			851655	None	0	0			
	Head Cabbage	Spain	851283	None	0	0			
		Ireland	850909	None	0	0			
			851161	Boscalid	0.022	5			
				Methiocarb	0.036	0.1			
				Methiocarb-Sulfoxide	0.027	0.1			
				851284	Prothioconazole	0.29	0.1	MRL Breach	
				851367	None	0	0		
				851429	None	0	0		
				851548	None	0	0		
				851550	None	0	0		
			851552	None	0	0			
		Poland	851343	Cypermethrin	0.026	1			
		Spain	850915	Chlorothalonil	0.051	3			
			851018	Iprodione	0.012	5			
			851175	Chlorantraniliprole	0.018	2			
				Chlorothalonil	0.47	3			
				Imidacloprid	0.01	0.5			
			851212	Boscalid	0.013	5			
				Chlorothalonil	0.17	3			
				Imidacloprid	0.13	0.5			
				Indoxacarb	0.05	0.2			
				Thiamethoxam	0.032	5			
	Kale	Ireland	851041	Difenoconazole	0.019	2			
					Tebuconazole	0.1	0.02	MRL Breach	
				851160	None	0	0		
		Italy	851360	None	0	0			
		Spain	851114	Cyfluthrin	0.029	0.3			
				Propyzamide	0.026	0.02	MRL Breach		
			851310	None	0	0			
	Pak Choi	Spain	851022	Clothianidin	0.01	0.2			
					Cypermethrin	0.11	1		
					Etofenprox	0.11	0.2		
					Pirimicarb	0.12	2		
					Pirimicarb Desmethyl	0.17	2		
					Thiamethoxam	0.04	0.2		
					851115	Cypermethrin	0.18	1	
						Iprodione	0.1	5	
						Pirimicarb	1.4	2	
						Pirimicarb Desmethyl	0.54	2	
				Spirotetramat	0.018	7			
LEAFY VEGETABLES AND HERBS	Lettuce	France	850973	Azoxystrobin	0.1	15			
				Cyprodinil	0.42	15			
				Deltamethrin	0.045	0.5			
				Difenoconazole	0.12	3			
				Fludioxonil	0.45	15			
				Imidacloprid	0.046	2			
				851112	Clothianidin	0.017	2		
					Imidacloprid	0.032	2		
					Thiamethoxam	0.09	5		
					851527	Boscalid	2.6	40	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Lambda-Cyhalothrin	0.028	1	
				Pyraclostrobin	0.11	10	
		Ireland	851164	Boscalid	0.015	30	
				Cyprodinil	0.012	15	
				Mandipropamid	0.018	25	
				Propyzamide	0.07	1	
				Spirotetramat	0.13	7	
			851220	Boscalid	0.15	30	
			851247	Boscalid	0.018	30	
				Iprodione	0.21	10	
				Propyzamide	0.034	0.6	
				Thiamethoxam	0.014	5	
			851322	None	0	0	
			851348	Acetamiprid	0.12	3	
				Boscalid	0.64	30	
				Cypermethrin	0.063	2	
				Iprodione	0.34	10	
				Mandipropamid	0.46	25	
				Pirimicarb	0.017	5	
				Pirimicarb Desmethyl	0.046	5	
				Propyzamide	0.044	0.6	
				Pyraclostrobin	0.017	2	
			851354	Boscalid	0.13	30	
				Cypermethrin	0.18	2	
				Metalaxyl	0.011	3	
				Propyzamide	0.023	0.6	
				Spinosad	0.039	10	
			851361	Lambda-Cyhalothrin	0.066	0.5	
			851391	Boscalid	0.015	30	
				Deltamethrin	0.012	0.5	
			851435	Acetamiprid	0.43	3	
				Boscalid	1	30	
				Cypermethrin	0.34	2	
				Iprodione	0.8	10	
				Mandipropamid	1.1	25	
				Propyzamide	0.09	0.6	
				Pyraclostrobin	0.098	2	
				Spirotetramat	0.19	7	
			851436	Azoxystrobin	0.62	15	
				Boscalid	0.91	30	
				Cypermethrin	0.14	2	
				Dimethoate	0.44	0.02	MRL Breach
				Omethoate	0.055	0.02	MRL Breach
				Propyzamide	0.46	0.6	
				Pyraclostrobin	0.051	2	
			851441	Boscalid	0.014	30	
			851442	None	0	0	
			851458	Azoxystrobin	0.22	15	
				Boscalid	0.7	30	
				Cypermethrin	0.45	2	
				Iprodione	0.011	10	
				Propyzamide	0.023	0.6	
			851467	Azoxystrobin	0.073	15	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Boscalid	0.32	30	
				Cypermethrin	0.094	2	
			851468	None	0	0	
			851469	Boscalid	0.01	30	
				Propyzamide	0.014	0.6	
			851473	None	0	0	
			851487	Boscalid	0.034	30	
				Propamocarb	0.025	20	
				Propyzamide	0.015	0.6	
			851526	Cypermethrin	0.16	2	
				Iprodione	0.15	25	
				Propyzamide	0.084	0.6	
				Spinosad	0.018	10	
				Thiamethoxam	0.014	5	
			851559	Azoxystrobin	0.51	15	
				Boscalid	1.5	30	
				Cypermethrin	0.17	2	
				Pyraclostrobin	0.09	2	
			851601	Acetamiprid	0.016	3	
				Fludioxonil	0.017	15	
				Lambda-Cyhalothrin	0.012	0.5	
				Mandipropamid	0.14	25	
			851605	Azoxystrobin	0.039	15	
				Boscalid	0.034	30	
				Propyzamide	0.098	0.6	
		Italy	851095	Boscalid	0.12	40	
				Chlorantraniliprole	0.16	20	
				Propamocarb	0.048	20	
				Pyraclostrobin	0.011	10	
				Spinosad	6.9	10	
		Spain	850904	Cyprodinil	0.031	15	
				Fludioxonil	0.021	15	
				Folpet	0.037	2	
			850907	Acetamiprid	0.51	3	
				Azoxystrobin	0.044	15	
				Cymoxanil	0.082	0.2	
				Cypermethrin	0.12	2	
				Fenhexamid	4.9	40	
				Imidacloprid	0.055	2	
				Pyrimethanil	0.23	20	
			850965	Azoxystrobin	0.02	15	
				Chlorantraniliprole	0.09	20	
				Difenoconazole	0.013	3	
				Dithiocarbamates	0.06	5	
				Fenhexamid	0.08	40	
				Fluopicolide	0.01	9	
				Propyzamide	0.022	1	
			851017	Acetamiprid	0.083	3	
				Cyprodinil	0.016	15	
				Fenhexamid	0.13	40	
				Pyrimethanil	0.042	20	
			851029	Deltamethrin	0.03	0.5	
				Dimethomorph	0.3	10	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Dithiocarbamates	3.3	5	
				Imidacloprid	0.23	2	
				Propyzamide	0.01	1	
			851068	Dimethomorph	0.014	10	
				Fenhexamid	0.01	40	
				Imidacloprid	0.028	2	
				Propamocarb	0.049	20	
				Propyzamide	0.013	1	
				Pyrethrins	0.059	1	
			851091	Acetamiprid	0.65	3	
				Azoxystrobin	0.46	15	
				Deltamethrin	0.01	0.5	
				Dimethomorph	1.5	10	
				Pyraclostrobin	1.1	2	
				Spirotetramat	0.053	7	
			851138	Imidacloprid	0.084	2	
				Thiamethoxam	0.02	5	
			851190	Imidacloprid	0.03	2	
			851209	Imidacloprid	0.035	2	
			851658	None	0	0	
	Rocket	Italy	851069	Boscalid	1.5	30	
				Mandipropamid	3	25	
				Metalaxyl	0.15	3	
				Propamocarb	0.016	30	
				Pyraclostrobin	0.16	10	
			851093	Boscalid	1.1	30	
				Deltamethrin	0.12	0.5	
				Metalaxyl	0.015	3	
				Propamocarb	0.013	30	
				Pyraclostrobin	0.043	10	
				Spirotetramat	0.01	7	
			851136	Acetamiprid	8.2	3	MRL Breach
				Boscalid	0.071	30	
				Cyprodinil	0.091	15	
				Fludioxonil	0.5	15	
				Mandipropamid	7.2	25	
				Pyraclostrobin	0.013	10	
			851359	Acetamiprid	0.045	3	
				Emamectin Benzoate	0.023	1	
			851561	Acetamiprid	1.4	3	
				Boscalid	0.024	30	
				Chlorantraniliprole	1.9	20	
				Oxadixyl	0.011	0.1	
		Norway	851431	Cypermethrin	0.12	2	
				Dimethomorph	0.26	10	
	Scarole	Spain	851092	Fenhexamid	0.012	30	
	Spinach	Italy	851013	None	0	0	
		Spain	850918	None	0	0	
			851037	Deltamethrin	0.017	0.5	
				Propamocarb	0.44	40	
			851094	Cypermethrin	0.24	0.7	
				Deltamethrin	0.024	0.5	
				Fluopicolide	3.2	4	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
LEGUME VEGETABLES				Lambda-Cyhalothrin	0.17	0.5	
				Propamocarb	17.3	40	
				851098 Cypermethrin	0.044	0.7	
				Deltamethrin	0.019	0.5	
				Fluopicolide	0.067	4	
				Propamocarb	3.1	40	
				851200 None	0	0	Organic
				UK 851362 None	0	0	
				Water Cress Spain 851096 Pyrethrins	0.081	1	
				Chives Tanzania 851356 Spinosad	0.12	10	
	Mint Italy 851358 Metalaxyl	0.069	2				
	Rosemary Italy 851357 None	0	0				
	Beans With Pods Egypt 851183 Azoxystrobin	0.016	3				
	Buprofezin	0.015	1				
	Carbendazim	0.054	0.2				
	Flusilazole	0.017	0.01	MRL Breach			
	Metalaxyl	0.012	0.05				
	Propargite	0.14	0.01	MRL Breach			
	Thiophanate-Methyl	0.069	0.1				
	851246 Cypermethrin	0.024	0.7				
	Ethiopia 851444 None	0	0				
	Kenya 850978 None	0	0				
	Peas With Pods Egypt 851080 None	0	0				
	Guatemala 851079 Carbendazim	0.02	0.2				
	Chlorothalonil	0.14	2				
	Dithiocarbamates	0.07	1				
	Tebuconazole	0.056	2				
	851097 Azoxystrobin	0.068	3				
	Chlorothalonil	1.7	2				
	Lambda-Cyhalothrin	0.012	0.2				
	Thiamethoxam	0.01	0.2				
	851184 Deltamethrin	0.018	0.2				
	Kenya 850977 Azoxystrobin	0.011	3				
	Tebuconazole	0.014	2				
	S Africa 851226 Azoxystrobin	0.013	3				
	851403 None	0	0				
	851404 None	0	0				
	Spain 851130 None	0	0	Organic			
	UK 851611 None	0	0				
	851612 None	0	0				
Unknown 851574 None	0	0	Processed				
851575 None	0	0	Processed				
851579 None	0	0	Processed				
851580 None	0	0	Processed				
851583 Pyrimethanil	0.022	0.2	Processed				
851584 Boscalid	0.096	3	Processed				
Pyrimethanil	0.023	0.2					
851589 None	0	0	Processed				
851590 None	0	0	Processed				
851591 Carbendazim	0.022	0.1	Processed				
Pyrimethanil	0.014	0.2					
Thiophanate-Methyl	0.02	0.1					
851592 None	0	0	Processed				

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851597	Boscalid	0.011	3	Processed
			851598	Carbendazim	0.041	0.1	Processed
				Thiophanate-Methyl	0.02	0.1	
			851613	None	0	0	Processed
STEM AND BULB VEGETABLES	Asparagus	Mexico	851011	None	0	0	
			851103	None	0	0	
		Peru	851378	None	0	0	
		Spain	851206	None	0	0	
	Celery	Ireland	851558	Difenoconazole	0.02	5	
		Spain	850916	Azoxystrobin	0.058	15	
				Difenoconazole	0.016	5	
				Imidacloprid	0.026	2	
			850966	Difenoconazole	0.035	5	
				Linuron	0.021	0.1	
			851020	Azoxystrobin	0.021	15	
				Imidacloprid	0.021	2	
				Linuron	0.011	0.1	
			851067	Azoxystrobin	0.015	15	
			851135	Azoxystrobin	0.055	15	
				Difenoconazole	0.086	5	
				Imidacloprid	0.051	2	
			851180	Azoxystrobin	0.038	15	
				Difenoconazole	0.047	5	
				Indoxacarb	0.014	2	
				Lambda-Cyhalothrin	0.013	0.3	
				Linuron	0.012	0.1	
			851242	Linuron	0.098	0.1	
			851308	Azoxystrobin	0.019	15	
				Difenoconazole	0.029	5	
				Imidacloprid	0.017	2	
				Linuron	0.047	0.1	
			851333	Azoxystrobin	0.035	15	
				Imidacloprid	0.025	2	
				Lambda-Cyhalothrin	0.01	0.3	
				Linuron	0.015	0.1	
	Fennel	Italy	851070	Cyprodinil	0.016	0.2	
			851121	Cyprodinil	0.012	0.2	
				Difenoconazole	0.01	5	
			851406	Cyprodinil	0.088	0.2	
				Difenoconazole	0.01	5	
		Spain	850953	None	0	0	Organic
	G. Artichokes	France	851381	None	0	0	
	Leek	France	851345	Boscalid	0.012	5	
		Ireland	851491	None	0	0	
			851528	None	0	0	
		UK	851285	None	0	0	Organic
	Spring Onions	Ireland	851235	Chlorothalonil	0.14	10	
				Iprodione	0.023	3	
		Mexico	851278	None	0	0	
			851344	None	0	0	
FUNGI	Cultivated Mushroom	Ireland	851140	Mepiquat	0.029	0.05	
				Prochloraz	0.01	3	
			851163	Deltamethrin	0.01	0.05	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				2-Phenylphenol	0.016	0.05	
				Prochloraz	0.038	3	
			851347	Mepiquat	0.035	0.05	
			851440	Chloromequat	0.013	10	
				Mepiquat	0.031	0.05	
				Piperonyl Butoxide	0.01	na	
			851547	Prochloraz	0.023	3	
OILFRUITS	Olive Oil	UK	851390	None	0	0	
		Greece	851587	None	0	0	Processed
			851594	None	0	0	Processed
		Italy	851572	Chlorpyrifos	0.014	0.05	Processed
			851588	Chlorpyrifos	0.016	0.05	Processed
		Spain	851577	None	0	0	Processed
			851585	None	0	0	Processed
			851595	None	0	0	Processed
			851596	None	0	0	Processed
		Unknown	851573	None	0	0	Processed
			851576	None	0	0	Processed
			851578	None	0	0	Processed
			851581	Chlorpyrifos	0.024	0.05	Processed
				Deltamethrin	0.011	0.05	
				Tebuconazole	0.012	0.05	
			851582	None	0	0	Processed
			851586	None	0	0	Processed
			851593	None	0	0	Processed
CEREAL	Barley	Ireland	850994	Chloromequat	0.021	2	
				Cyprodinil	0.034	3	
			850995	Boscalid	0.01	3	
				Chloromequat	0.034	2	
				Cyprodinil	0.013	3	
			850996	Cyprodinil	0.025	3	
			850997	Cyprodinil	0.026	3	
				Glyphosate	0.17	20	
			850998	Chloromequat	0.053	2	
				Glyphosate	0.15	20	
				Mepiquat	0.061	3	
			850999	Chloromequat	0.065	2	
				Glyphosate	0.18	20	
			851000	Chloromequat	0.026	2	
				Cyprodinil	0.015	3	
			851001	Chloromequat	0.037	2	
				Cyprodinil	0.062	3	
			851002	Chloromequat	0.049	2	
				Cyprodinil	0.029	3	
			851003	Boscalid	0.013	3	
				Chloromequat	0.14	2	
	Oats	Ireland	851478	None	0	0	
			851480	Fenpropidin	0.041	0.3	
				Pyraclostrobin	0.056	1	
			851481	Pyraclostrobin	0.019	1	
			851482	None	0	0	
			851483	None	0	0	
	Rice	Cambodia	851082	Isoprothiolane	0.033	5	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Propiconazole	0.01	0.7	
				Tricyclazole	0.032	1	
		India	851081	Buprofezin	0.02	0.5	
				Isoprothiolane	0.048	5	
				Propiconazole	0.013	0.7	
				Tricyclazole	0.025	1	
			851083	Buprofezin	0.013	0.5	
				Isoprothiolane	0.023	5	
				Propiconazole	0.012	0.7	
				Tricyclazole	0.017	1	
			851085	Buprofezin	0.032	0.5	
				Isoprothiolane	0.061	5	
				Propiconazole	0.02	0.7	
				Thiamethoxam	0.01	0.6	
				Tricyclazole	0.04	1	
			851086	Buprofezin	0.027	0.5	
				Isoprothiolane	0.026	5	
				Propiconazole	0.011	0.7	
				Tricyclazole	0.033	1	
		Spain	851087	Deltamethrin	0.28	2	
				Piperonyl Butoxide	2.6	na	
				Tebuconazole	0.02	1	
				Tricyclazole	0.017	1	
		Surinam	851084	Imidacloprid	0.017	1.5	
				Isoprothiolane	0.25	5	
		United States	851090	Epoxiconazole	0.012	0.1	
				Tebuconazole	0.015	1	
				Tricyclazole	0.074	1	
		Unknown	851088	Tricyclazole	0.055	1	
			851089	None	0	0	
	Wheat	France	851564	Chlorpyrifos-Methyl	0.49	3	
				Piperonyl Butoxide	0.017	na	
				Pirimiphos-Methyl	0.045	5	
		Germany	851567	None	0	0	
			851571	Chlormequat	0.13	2	
		Ireland	851566	Chlormequat	0.16	2	
				Glyphosate	0.32	10	
				Piperonyl Butoxide	0.024	na	
			851568	Chlormequat	0.06	2	
				Glyphosate	0.32	10	
			851617	Chlormequat	0.41	2	
				Glyphosate	0.49	10	
			851618	Chlormequat	0.38	2	
				Glyphosate	0.35	10	
			851619	Chlormequat	0.33	2	
				Glyphosate	0.07	10	
			851620	Chlormequat	0.28	2	
			851621	Chlormequat	0.37	2	
			851622	Chlormequat	0.35	2	
				Glyphosate	0.26	10	
			851623	Chlormequat	0.36	2	
				Glyphosate	0.37	10	
		UK	851565	Chlormequat	0.049	2	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Cypermethrin	0.17	2	
				Piperonyl Butoxide	0.38	na	
			851569	Chlormequat	0.058	2	
				Cypermethrin	0.59	2	
				Permethrin	0.016	0.05	
				Piperonyl Butoxide	1.72	na	
				Tebuconazole	0.025	0.1	
			851570	Chlormequat	0.16	2	
				Mepiquat	0.016	3	
				Permethrin	0.015	0.05	
FOOD OF ANIMAL ORIGIN	Bovine Fat	Ireland	801576	None	0	0	
			801584	None	0	0	
			801593	None	0	0	
			801594	None	0	0	
			801595	None	0	0	
			801596	None	0	0	
			801597	None	0	0	
			801598	None	0	0	
			801599	None	0	0	
			801600	None	0	0	
			801601	None	0	0	
			801609	None	0	0	
			801612	None	0	0	
			801613	None	0	0	
			801615	None	0	0	
			801617	None	0	0	
			801620	None	0	0	
			801621	None	0	0	
			801622	Cypermethrin	0.073	2	
			801628	Ppdde	0.008	1	
			801629	None	0	0	
			801632	None	0	0	
			801649	None	0	0	
			801656	None	0	0	
			801657	None	0	0	
			801658	None	0	0	
			801661	Cypermethrin	0.07	2	
			801663	Diazinon	0.013	0.7	
			801664	None	0	0	
			801665	None	0	0	
			801670	None	0	0	
			801671	None	0	0	
			801673	None	0	0	
			801674	None	0	0	
			801675	None	0	0	
			801682	None	0	0	
			801683	None	0	0	
			801684	None	0	0	
			801686	None	0	0	
			801687	None	0	0	
			801691	None	0	0	
			801694	None	0	0	
			801695	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801696	None	0	0	
			801697	None	0	0	
			801718	None	0	0	
			801723	None	0	0	
			801727	None	0	0	
			801728	None	0	0	
			801729	None	0	0	
			801736	None	0	0	
			801742	None	0	0	
			801743	None	0	0	
			801745	None	0	0	
			801756	None	0	0	
			801757	None	0	0	
			801759	None	0	0	
			801760	None	0	0	
			801761	None	0	0	
			801762	None	0	0	
			801763	None	0	0	
			801764	None	0	0	
			801769	None	0	0	
			801770	Ppdde	0.011	1	
			801771	None	0	0	
			801774	None	0	0	
			801775	None	0	0	
			801776	None	0	0	
			801781	None	0	0	
			801782	None	0	0	
			801786	None	0	0	
			801787	None	0	0	
			801788	None	0	0	
			801801	None	0	0	
			801802	None	0	0	
			801803	None	0	0	
			801810	None	0	0	
			801811	None	0	0	
			801815	None	0	0	
			801828	None	0	0	
			801829	None	0	0	
			801843	None	0	0	
			801844	None	0	0	
			801851	None	0	0	
			801852	None	0	0	
			801853	None	0	0	
			801854	None	0	0	
			801855	None	0	0	
			801857	None	0	0	
			801858	None	0	0	
			801860	None	0	0	
			801861	None	0	0	
			801864	None	0	0	
			801865	None	0	0	
			801866	None	0	0	
			801867	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801869	None	0	0	
			801871	None	0	0	
			801872	None	0	0	
			801884	None	0	0	
			801885	None	0	0	
			801892	None	0	0	
			801903	None	0	0	
			801907	None	0	0	
			801929	None	0	0	
			801931	None	0	0	
			801936	None	0	0	
			801937	None	0	0	
			801940	None	0	0	
			801943	None	0	0	
			801944	None	0	0	
			801945	None	0	0	
			801947	None	0	0	
			801949	None	0	0	
			801955	None	0	0	
			801956	None	0	0	
			801959	None	0	0	
			801964	None	0	0	
			801965	None	0	0	
			801968	None	0	0	
			801970	None	0	0	
			801971	None	0	0	
CERVINE	Cervine Fat	Ireland	801791	Dieldrin	0.011	0.2	
			801792	None	0	0	
			801793	None	0	0	
			801794	None	0	0	
			801795	None	0	0	
			801796	2-Phenylphenol	0.034	0.05	
			801797	None	0	0	
			801798	None	0	0	
			801799	Dieldrin	0.023	0.2	
			801800	None	0	0	
			801948	None	0	0	
	Equine Fat	Ireland	801582	None	0	0	
			801583	None	0	0	
			801744	None	0	0	
			801752	None	0	0	
			801862	None	0	0	
			801863	Hexachlorobenzene	0.005	0.2	
			801898	None	0	0	
			801899	None	0	0	
	Ovine Fat	Ireland	801575	None	0	0	
			801585	None	0	0	
			801586	None	0	0	
			801587	None	0	0	
			801588	None	0	0	
			801608	Ppdde	0.009	1	
			801610	None	0	0	
			801611	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801614	None	0	0	
			801616	None	0	0	
			801618	None	0	0	
			801619	None	0	0	
			801623	None	0	0	
			801624	None	0	0	
			801626	None	0	0	
			801627	None	0	0	
			801645	None	0	0	
			801646	Hexachlorobenzene	0.006	0.2	
				Ppdde	0.013	1	
			801647	None	0	0	
			801648	None	0	0	
			801662	None	0	0	
			801668	None	0	0	
			801669	None	0	0	
			801672	None	0	0	
			801679	None	0	0	
			801685	None	0	0	
			801698	None	0	0	
			801699	None	0	0	
			801700	None	0	0	
			801701	None	0	0	
			801717	None	0	0	
			801730	None	0	0	
			801731	None	0	0	
			801732	None	0	0	
			801733	None	0	0	
			801738	None	0	0	
			801739	None	0	0	
			801740	None	0	0	
			801741	None	0	0	
			801748	None	0	0	
			801749	None	0	0	
			801750	None	0	0	
			801751	None	0	0	
			801753	None	0	0	
			801754	None	0	0	
			801765	None	0	0	
			801766	None	0	0	
			801773	None	0	0	
			801789	2-Phenylphenol	0.005	0.05	
			801790	2-Phenylphenol	0.018	0.05	
			801825	None	0	0	
			801831	None	0	0	
			801832	None	0	0	
			801833	None	0	0	
			801835	2-Phenylphenol	0.01	0.05	
			801836	Diazinon	0.027	0.7	
			801845	None	0	0	
			801848	None	0	0	
			801849	None	0	0	
			801850	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801856	None	0	0	
			801859	None	0	0	
			801868	None	0	0	
			801890	None	0	0	
			801891	Diazinon	0.006	0.7	
			801900	None	0	0	
			801901	None	0	0	
			801902	None	0	0	
			801904	None	0	0	
			801905	None	0	0	
			801906	None	0	0	
			801930	None	0	0	
			801938	None	0	0	
			801957	None	0	0	
			801958	None	0	0	
			801962	None	0	0	
			801963	None	0	0	
			801966	None	0	0	
			801967	None	0	0	
			801972	None	0	0	
	Porcine Fat	Ireland	801577	None	0	0	
			801578	None	0	0	
			801579	None	0	0	
			801580	None	0	0	
			801581	None	0	0	
			801589	None	0	0	
			801590	None	0	0	
			801591	Ppddt	0.005	1	
			801605	None	0	0	
			801606	None	0	0	
			801607	None	0	0	
			801625	None	0	0	
			801666	None	0	0	
			801667	None	0	0	
			801676	None	0	0	
			801677	None	0	0	
			801678	None	0	0	
			801688	None	0	0	
			801689	None	0	0	
			801690	None	0	0	
			801692	None	0	0	
			801693	None	0	0	
			801712	None	0	0	
			801713	None	0	0	
			801714	None	0	0	
			801719	None	0	0	
			801720	None	0	0	
			801721	None	0	0	
			801735	None	0	0	
			801737	None	0	0	
			801747	None	0	0	
			801755	None	0	0	
			801758	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801768	None	0	0	
			801772	None	0	0	
			801777	None	0	0	
			801778	None	0	0	
			801779	None	0	0	
			801783	None	0	0	
			801784	None	0	0	
			801785	None	0	0	
			801826	None	0	0	
			801827	None	0	0	
			801837	None	0	0	
			801838	None	0	0	
			801839	None	0	0	
			801840	None	0	0	
			801841	None	0	0	
			801842	None	0	0	
			801880	None	0	0	
			801881	None	0	0	
			801882	None	0	0	
			801883	None	0	0	
			801886	None	0	0	
			801887	None	0	0	
			801888	None	0	0	
			801889	None	0	0	
			801932	None	0	0	
			801933	None	0	0	
			801934	None	0	0	
			801935	None	0	0	
	Poultry Fat	Ireland	801592	None	0	0	
			801602	None	0	0	
			801603	None	0	0	
			801604	None	0	0	
			801650	None	0	0	
			801659	2-Phenylphenol	0.022	0.05	
			801660	2-Phenylphenol	0.013	0.05	
			801680	None	0	0	
			801681	None	0	0	
			801710	None	0	0	
			801711	None	0	0	
			801746	2-Phenylphenol	0.01	0.05	
			801767	Lindane	0.012	0.02	
			801780	None	0	0	
			801816	2-Phenylphenol	0.014	0.05	
			801846	None	0	0	
			801847	None	0	0	
			801870	None	0	0	
			801941	None	0	0	
			801942	None	0	0	
			801946	2-Phenylphenol	0.015	0.05	
			801950	None	0	0	
			801951	None	0	0	
			801952	None	0	0	
			801961	Dieldrin	0.005	0.2	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
	Butter	Ireland	851498	2-Phenylphenol	0.006	0.05	
			851500	None	0	0	
			851501	None	0	0	
			851502	None	0	0	
			851503	None	0	0	
			851509	None	0	0	
			851510	None	0	0	
			851511	None	0	0	
			851512	None	0	0	
			851513	None	0	0	
			851516	None	0	0	
			851520	None	0	0	
		UK	851497	None	0	0	
		Unknown	851499	2-Phenylphenol	0.005	0.05	
			851521	None	0	0	
	Chicken Egg	Ireland	801633	None	0	0	
			801634	None	0	0	
			801635	None	0	0	
			801715	None	0	0	
			801716	None	0	0	
			801808	None	0	0	
			801809	None	0	0	
			801812	None	0	0	
			801874	None	0	0	
			801875	None	0	0	
			851728	None	0	0	
			851729	None	0	0	
			851730	None	0	0	
			851731	None	0	0	
			851732	None	0	0	
	Cows Milk	Ireland	801630	None	0	0	
			801631	None	0	0	
			801636	None	0	0	
			801637	None	0	0	
			801638	None	0	0	
			801639	None	0	0	
			801640	None	0	0	
			801641	None	0	0	
			801642	None	0	0	
			801643	None	0	0	
			801644	None	0	0	
			801651	None	0	0	
			801652	None	0	0	
			801653	None	0	0	
			801654	None	0	0	
			801655	None	0	0	
			801702	None	0	0	
			801703	None	0	0	
			801704	None	0	0	
			801705	None	0	0	
			801706	None	0	0	
			801707	None	0	0	
			801708	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			801709	None	0	0	
			801722	None	0	0	
			801724	None	0	0	
			801725	None	0	0	
			801726	None	0	0	
			801804	None	0	0	
			801805	None	0	0	
			801806	None	0	0	
			801807	None	0	0	
			801818	None	0	0	
			801819	None	0	0	
			801820	None	0	0	
			801821	None	0	0	
			801823	None	0	0	
			801824	None	0	0	
			801830	None	0	0	
			801834	None	0	0	
			801873	None	0	0	
			801876	None	0	0	
			801877	None	0	0	
			801878	None	0	0	
			801879	None	0	0	
			801893	None	0	0	
			801894	None	0	0	
			801895	None	0	0	
			801896	None	0	0	
			801897	None	0	0	
			801953	None	0	0	
			801954	None	0	0	
			801960	None	0	0	
	Goats Milk	Ireland	801817	None	0	0	
			801822	None	0	0	
	Honey	Ireland	801919	None	0	0	
			801920	None	0	0	
			801921	None	0	0	
			801922	None	0	0	
			801923	None	0	0	
			801924	None	0	0	
			801925	None	0	0	
			801926	None	0	0	
			801927	None	0	0	
			801928	None	0	0	
			801969	None	0	0	
		Unknown	801939	None	0	0	
BABY FOOD	Cereal Baby Food	Unknown	851672	None	0	0	
			851673	None	0	0	Organic
			851674	None	0	0	
			851675	None	0	0	
			851676	None	0	0	Organic
			851677	None	0	0	
			851678	None	0	0	
			851679	None	0	0	
			851680	None	0	0	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851681	None	0	0	Organic
	Infant Formula	Ireland	851299	None	0	0	
			851300	None	0	0	
			851301	None	0	0	
			851302	None	0	0	
			851303	None	0	0	
			851304	None	0	0	
			851305	None	0	0	
			851306	None	0	0	
			851392	None	0	0	
			851393	None	0	0	
			851537	None	0	0	
			851538	None	0	0	
			851539	None	0	0	
			851540	None	0	0	
			851541	None	0	0	
			851542	None	0	0	
			851543	None	0	0	
			851544	None	0	0	
			851545	None	0	0	
			851546	None	0	0	
			851637	None	0	0	
			851638	None	0	0	
			851639	None	0	0	
			851640	None	0	0	
			851641	None	0	0	
			851642	None	0	0	
			851643	None	0	0	
			851644	None	0	0	
			851645	None	0	0	
			851646	None	0	0	
			851647	None	0	0	
			851648	None	0	0	
			851649	None	0	0	
			851659	None	0	0	
ENFORCEMENT							
TARGETED AND FOLLOW-UP	Apple	Brazil	851186	Carbendazim	0.018	0.2	
				Chlorpyrifos	0.011	0.5	
				Phosmet	0.019	0.5	
	Carrots	Spain	850905	Iprodione	0.011	0.5	
	Cultivated Mushroom	Ireland	851603	Bendiocarb	0.015	0.01	MRL Breach
				2-Phenylphenol	0.018	0.05	
				Prochloraz	0.011	3	
	Head Cabbage	Ireland	851368	Cypermethrin	0.3	1	
				Difenoconazole	0.015	0.2	
				Fluopicolide	0.053	0.2	
				Propamocarb	0.2	0.7	
				Spirotetramat	0.039	2	
			851382	Boscalid	0.061	5	
			851489	Thiamethoxam	0.057	5	
	Kale	Ireland	851388	Difenoconazole	0.022	2	
				Pendimethalin	0.06	0.5	
			851443	Cypermethrin	0.14	1	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE		
IMPORT CONTROLS	Lettuce	Ireland	851384	Difenoconazole	0.38	2			
				Pirimicarb	0.22	1			
				Pirimicarb Desmethyl	0.75	1			
				Pymetrozine	0.19	0.2			
				Cypermethrin	0.093	2			
				Propamocarb	0.038	20			
				Propyzamide	0.13	0.6			
	Pomegranate	India	851123	None	0	0			
	Rocket	Italy	851166	Acetamiprid	0.48	3			
	Dried Beans	Nigeria	851294	Dichlorvos	6.3	0.01	MRL Breach		
				Dimethoate	0.013	0.02			
				Trichlorfon	8.4	0.01	MRL Breach		
				851296	Cypermethrin	0.86	0.05	MRL Breach	
					Dichlorvos	0.17	0.01	MRL Breach	
					Dimethoate	0.038	0.02	MRL Breach	
				851297	Trichlorfon	0.66	0.01	MRL Breach	
					Cypermethrin	0.024	0.05		
					Dichlorvos	0.11	0.01	MRL Breach	
					Dimethoate	0.022	0.02	MRL Breach	
				851298	Trichlorfon	0.35	0.01	MRL Breach	
					Chlorpyrifos	0.03	0.05		
					Cypermethrin	0.023	0.05		
					Dichlorvos	0.1	0.01	MRL Breach	
					Dimethoate	0.037	0.02	MRL Breach	
				851320	Trichlorfon	0.34	0.01	MRL Breach	
					Chlorpyrifos	0.093	0.05	MRL Breach	
					Dimethoate	0.026	0.02	MRL Breach	
					850972	Azoxystrobin	0.026	3	
						Difenoconazole	0.023	1	
	Beans with Pods	Kenya	850983	None	0	0			
			851042	None	0	0			
			851065	Methoxyfenozide	0.017	2			
			851117	None	0	0			
			851118	Cypermethrin	0.031	0.7			
			851151	None	0	0			
			851165	Azoxystrobin	0.01	3			
				Imidacloprid	0.023	2			
				Spinosad	0.023	0.5			
			851199	NONE	0	0			
			851221	Thiacloprid	0.02	1			
			851238	Lambda-Cyhalothrin	0.016	0.2			
			851266	NONE	0	0			
			851321	Bifenthrin	0.035	0.5			
				Lambda-Cyhalothrin	0.016	0.2			
			851340	NONE	0	0			
			851349	Thiabendazole	0.01	0.05			
	Peas with Pods	Kenya	851119	Tebuconazole	0.036	2			
851120				None	0	0			
851239				Carbendazim	0.19	0.2			
				Metalaxyl	0.014	0.05			
851240				Tebuconazole	0.021	2			
				Bitertanol	0.01	0.01			
Chlorothalonil				0.46	2				

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
			851350	Azoxystrobin	0.012	3	
				Carbendazim	0.026	0.2	
				Cypermethrin	0.023	0.7	
				Dimethoate	0.021	0.02	MRL Breach
				Tebuconazole	0.045	2	
				Thiabendazole	0.01	0.05	
			851446	Carbendazim	0.02	0.2	
			851447	Azoxystrobin	0.012	3	
				Chlorothalonil	0.44	5	
			851448	Azoxystrobin	0.018	3	
				Chlorothalonil	0.11	5	
			851556	Lambda-Cyhalothrin	0.016	0.2	
			851614	Azoxystrobin	0.05	3	
				Chlorothalonil	0.31	5	
				Difenoconazole	0.025	1	
				Imidacloprid	0.013	5	
				Lambda-Cyhalothrin	0.011	0.2	
			851615	Chlorothalonil	0.026	5	
				Difenoconazole	0.016	1	
			851624	Chlorothalonil	0.54	5	
				Chlorpyrifos	0.012	0.05	
				Cypermethrin	0.044	0.7	
				Difenoconazole	0.017	1	
				Flubendiamide	0.036	1.5	
			851625	Azoxystrobin	0.027	3	
				Chlorothalonil	0.27	5	
				Difenoconazole	0.027	1	
				Lambda-Cyhalothrin	0.012	0.2	
				Metalaxyl	0.012	0.05	
				Tebuconazole	0.029	2	
			851664	NONE	0	0	
			851665	Chlorothalonil	0.012	5	
			851666	Azoxystrobin	0.012	3	
				Lambda-Cyhalothrin	0.013	0.2	
	Pepper	Turkey	851470	None	0	0	
	Strawberry	Egypt	850919	Cyprodinil	0.018	5	
				Fenpropimorph	0.038	1	
				Fludioxonil	0.01	4	
				Iprodione	0.053	15	
				Spiroxamine	0.011	0.05	
			850920	Iprodione	0.018	15	
			850921	Iprodione	0.043	15	
			850932	Iprodione	0.058	15	
			850943	Carbendazim	0.021	0.1	
				Iprodione	0.045	15	
			850964	Cyprodinil	0.018	5	
				Fludioxonil	0.036	4	
				Iprodione	0.011	15	
			850981	Cyprodinil	0.076	5	
				Fenhexamid	0.012	5	
				Fludioxonil	0.064	4	
			850982	Iprodione	0.23	15	
			851004	Boscalid	0.028	10	

CATEGORY	COMMODITY	ORIGIN	SAMPLE ID	PESTICIDE	RESIDUE MG KG ⁻¹	MRL MG KG ⁻¹	NOTE
				Iprodione	0.35	15	
				Lambda-Cyhalothrin	0.031	0.5	
			851015	Iprodione	0.046	15	
			851024	Boscalid	0.027	10	
				Cyprodinil	0.016	5	
				Fludioxonil	0.02	4	
				Iprodione	0.38	15	
			851025	None	0	0	
			851053	Iprodione	0.22	15	
			851054	None	0	0	
			851636	Lambda-Cyhalothrin	0.011	0.5	
			851650	Azoxystrobin	0.051	10	
				Boscalid	0.015	10	
				Chlorpyrifos	0.086	0.2	
				Lambda-Cyhalothrin	0.015	0.5	
				Prochloraz	0.016	0.05	
				Propamocarb	0.055	0.01	MRL Breach
				Pyridalyl	0.064	0.01	MRL Breach
			851652	Cyprodinil	0.042	5	
				Fludioxonil	0.04	4	
				Lambda-Cyhalothrin	0.014	0.5	
				Teflubenzuron	0.016	0.2	
			851653	Boscalid	0.011	10	
				Lambda-Cyhalothrin	0.019	0.5	
			851654	Boscalid	0.013	10	
				Carbendazim	0.018	0.1	
				Thiophanate-Methyl	0.045	0.1	
			851660	Carbendazim	0.02	0.1	
				Methomyl	0.1	0.02	MRL Breach
			851661	Boscalid	0.24	10	
				Captan	0.047	3	
				Iprodione	0.47	20	
				Myclobutanyl	0.035	1	
				Pyraclostrobin	0.11	1.5	
			851662	Fludioxonil	0.016	4	
			851663	None	0	0	
			851667	None	0	0	
			851668	None	0	0	
			851669	Chlorothalonil	0.031	5	
			851670	None	0	0	
			851671	None	0	0	
	Tea	China	851402	None	0	0	Organic
			851557	Bifenthrin	1.2	5	
				Chlorfenapyr	0.16	50	
				Cypermethrin	0.18	0.5	
				Pyridaben	0.34	0.05	MRL Breach
			851616	None	0	0	
			851626	None	0	0	Organic

9.5**ANNEX V Abbreviations**

ADI	Acceptable daily intake
ARfD	Acute Reference Dose
BIP	Border Inspection Post
DAFM	Department of Agriculture, Food and the Marine
EC	European Community
EU	European Union
FSAI	Food Safety Authority of Ireland
g day ⁻¹	gram per day
IUNA	Irish Universities Nutrition Alliance
LOQ	Limit of Quantitation
mg kg ⁻¹	milligram per kilogram
MRL	Maximum Residue Level
NCFS	National Children's Food Survey
OJ	Official Journal of the European Union
PCB	Polychlorinated Biphenyl
PCD	Pesticide Controls Division
PCL	Pesticide Control Laboratory
RASFF	Rapid Alert System for Food and Feed
S.I.	Statutory Instrument
TC	Third Country

9.6

ANNEX VI Glossary of terms

Acceptable Daily Intake (ADI)	Intake	<p>An ADI is an estimate of the amount of a residue in food or drinking water, expressed on a body weight basis that can be ingested daily over a lifetime without appreciable health risk.</p> <p>The particular vulnerability of infants, children, the elderly and those whose systems are under stress because of ill-health, are taken into account, through application of a safety factor, when ADI values are established.</p> <p>ADI values are based on the no-adverse-effect level in the most sensitive animal species used in the toxicological experiments, or if appropriate data are available, in humans. Invariably, a safety factor to account for inter-species and intra-species variations is applied. Studies used as a basis for the identification of the relevant no-adverse-effect levels and hence for deriving ADI values, are conducted using active substance as manufactured. Accordingly the toxicological effects of impurities present in active substances are included in the assessment. Account is also taken of metabolites that may influence the toxicological significance of the residue reaching the consumer.</p>
Acute Reference Dose (ARfD)	Dose	<p>An ARfD is similar in nature to an ADI but it relates to intake of residues at one meal or on one day.</p> <p>The particular vulnerability of infants, children, the elderly and those whose systems are under stress because of ill-health, are taken into account, through application of a safety factor, when ARfD values are established.</p> <p>ARfD values are based on the no-adverse effect level in the most sensitive animal species used in the toxicological experimentation, or if appropriate data are available, in humans. ARfD values are derived from the results of those toxicological studies that are most relevant to short term exposure.</p>
Good Agricultural Practice (GAP)		<p>GAP in the use of a plant protection product (pesticide) includes authorised use under practical conditions necessary for effective control of harmful organisms. It encompasses a range of levels of application up to the highest level authorised, applied in a manner that leaves a residue that is the smallest amount practicable.</p>
Limit of Quantitation (LOQ)	Quantitation	<p>The LOQ is the lowest concentration of a pesticide residue or contaminant that can be identified and quantitatively measured in specified food, agricultural commodity or animal feed, with an acceptable degree of certainty by a method of analysis.</p>

Maximum Residue Level (MRL)	<p>MRL is the maximum concentration of a pesticide residue, expressed in milligrams per kilogram, legally permitted in or on food commodities and animal feeds. MRLs are based on supervised residues trials data that reflect Good Agricultural Practice (GAP). MRLs established for particular food commodities are such that potential consumer exposure to residues is judged to be toxicologically acceptable.</p> <p>MRLs are fixed at or about the limit of determination, where there are no approved uses.</p> <p>MRLs are established on the basis of sound scientific knowledge. They are only established for those pesticides for which acceptable daily intake (ADI) values exist.</p>
Pesticide Residue	<p>Any trace of a pesticide found in a sample, including any specified derivatives such as degradation and conversion products, metabolites and impurities, which are considered to be of toxicological significance and are included in the residue definition</p>

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