

Department for Environment, Food and Rural Affairs

The Expert Committee on Pesticide Residues in Food (PRiF)

## School Fruit and Vegetable Scheme Report on Pesticide Residues Monitoring: Spring Term 2017

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## **Summary findings**

During the 2017 Spring term 75 samples of fruit and vegetables were analysed as part of the Department of Health's School Fruit and Vegetable Scheme testing programme. We surveyed 14 apple samples, 13 banana samples, 14 carrot samples, 16 pear samples, 4 raisin samples and 14 soft citrus samples.

The samples were collected between January and March 2017. All of samples either contained no detectable residues of any of the pesticides we were looking for or contained residues below the maximum residue level (MRL) for those pesticides. 4 samples did not contain any detectable pesticide residues. 71 samples contained residues at or below the relevant MRLs. 65 samples contained residues of more than one pesticide.

The Chemicals Regulation Division of the Health and Safety Executive (HSE) carried out a risk assessment screen for each residue and food combination to identify residue levels that would lead to intakes above the relevant reference doses. They then produced detailed assessments where the screen showed the actual residue level found may lead to an intake above the reference dose. We have looked carefully at all these findings including the risk assessments provided. In all cases we think the presence of the residues found would be unlikely to have had any effect on the health of anyone who ate the food.

PRiF have considered these results and have had an opportunity to comment on the findings and HSE risk assessments. None of the residues found was likely to result in any adverse health effects for school children.

Information on the pesticide residues found in produce from various points across the food supply chain can be found in the <u>PRiF Quarterly and Annual Reports</u>.

We would like to thank all those individuals and organisations who helped to put this report together. These include the PRiF Secretariat and scientific staff (both based at HSE), the suppliers who provided the samples, and the laboratory staff who undertook the analysis.

Parl Brats

Dr Paul Brantom Chairman Committee on Pesticide Residues in Food

## Background to the School Fruit and Vegetable Scheme by the Deptarment of Health



The School Fruit & Vegetable Scheme entitles all four to six year old children in fully state funded infant, primary and special schools in England to a piece of fruit or vegetable each school day. The scheme is led by the Department of Health and is managed by NHS Supply Chain.

### About NHS Supply Chain's relationship with suppliers

### Procurement

The supply chain for fruit and vegetables supplied to the School Fruit and Vegetable Scheme (SF&VS) is managed by NHS Supply Chain on behalf of the Department of Health. Contracts are let in accordance with EU Public Procurement Directives. The contracts are for specified time periods, and for named commodities such as apples, pears, soft citrus, bananas, strawberries, cocktail tomatoes and carrots.

### **Supply Calendar**

To ensure the quality remains high contracts have been awarded to a number of UK contractors from producer organisations to major producers and growers. Contractors will source products depending on seasonal availability, throughout the world. The supply calendar is provided to tenderers so that prospective contractors can quote based on realistic volumes. The calendar is seasonally based on the UK climate.

### Specifications

Products are purchased from producers and importers who source in accordance with a strict specification designed to ensure safe and nutritious food is provided to schools. Producers work to Good Agriculture Practice standards. These standards incorporate Integrated Pest Management and Integrated Crop Management. The Schemes suppliers follow policy in relation to MRLs and any associated EU amendments. NHS Supply Chain request and receive written submissions from all the Scheme's suppliers to this effect. The specifications for supply to the SF&VS have been drawn up with advice from the Food Standards Agency and Department of Environment, Food and Rural Affairs, HSE, Horticultural Marketing Inspectorate, National Farmers Union and the Fresh Produce Consortium.

### Monitoring by the suppliers

Separately to the results in this report, as a condition of their contracts all suppliers agree to undertake a monitoring programme to ensure that any pesticide residues in the produce supplied are below the Maximum Residue Level (MRL). Suppliers must be able to demonstrate 'due diligence' with regard to potential fruit or vegetable contamination with pesticide residues, for example, by complying with codes of practice such as the Fresh Produce Consortium's current Control of Pesticides Code of Practice. Suppliers must liaise closely with growers/packers and undertake appropriate risk-based pesticide residue testing. The minimum requirement for testing is one test per source (packhouse) per season. The laboratories used to conduct the test must be UKAS accredited and participate in the FAPAS proficiency scheme specific to fruit and vegetables.

### About Department of Health's checks for pesticide residues

One of the key measures of quality control for produce supplied under the SF&VS relates to pesticide residues. In common with other produce supplied to the general public, these fruit and vegetables must comply with 'permitted levels' called Maximum Residue Levels (MRLs). MRLs are set for hundreds of different pesticides, although at most only a handful of these will be used on a particular fruit or vegetable. They are specified as a numeric value - typically in the range of 0.01 to 5 milligrams of pesticide per kilogram of fruit or vegetable.

Department of Health work with HSE to check that SF&VS produce complies with MRLs. Samples of scheme fruit and vegetables are obtained from contracted supply companies and subjected to a detailed scientific analysis. The sampling programme ensures that all suppliers contracted to supply fruit and vegetables under the Scheme for a particular term are targeted; samples are collected in approximate proportion to the number of designated 'consumption days'.

Each sample is tested for over 370 pesticides. Where possible the range of pesticide sought is the same as that being sought as part of the national monitoring programme overseen by the Expert Committee on Pesticide Residues in Food (PRiF). This list is updated each calendar year which means that direct comparisons with previous surveys is not possible for any new pesticides which have been added to the list.

The results for each sample are carefully scrutinised to determine whether any residues comply with MRLs and whether they would be likely to affect the health of consumers including schoolchildren.

MRLs are set to include residues found in the whole fruit and vegetable (skin and flesh). The samples, even of fruit or vegetables that would generally be peeled before consumption, are not peeled before analysis. The results reported are for the whole fruit and vegetable including the skin.

If a product is found to have exceeded the legal limits HSE will assess the risk to consumers from eating this produce. The result is reported immediately to NHS Supply Chain. They will notify the producer and the grower and ask for a full explanation of why the limit has been exceeded. NHS Supply Chain will assess the response from the producer, and with advice from HSE, will determine whether any future products from this grower should be sourced for the SF&VS.

Department of Health February 2015

## **Part 1: Introduction**

#### **Pesticides and Food Safety**

Food safety is important. Modern food production processes have given us plentiful supplies of a wide range of good quality and reasonably priced produce.

One of the ways to deliver plentiful supplies of reasonably priced, safe, nutritious, quality produce is to carefully control the environment in which foodstuffs are produced. In the food industry of today the production environment can be controlled from the preparation of seeds used for crops, through growth and harvesting to transport, preparation, packaging and retail of the produce.

One aspect of pest, disease or weed control can be the use of pesticides. They help farmers and growers improve the production of foodstuffs by, for example, preventing weeds inhibiting the growth of the crop, or insects destroying or infesting them. Pesticides can also be used to help protect seeds, or enable storage of crops after they have been harvested.

As pesticides are used to control unwanted pests, weeds and diseases, they can potentially also harm people, wildlife and the environment. This is why the UK, in common with most other countries, imposes legally enforceable conditions as to how and when pesticides can be used. No pesticide can be supplied or used on a food crop in the UK without Government authorisation. To obtain this authorisation the manufacturer of the pesticide must show that it does not present a concern for people's health or the environment.

Once the authorisation has been granted, Government authorities carry out follow-up checks to ensure that the authorisation is providing the necessary degree of protection to users, consumers and the environment, and that those who use pesticides are complying with conditions specified within it. It is known that the use of pesticides on crops may lead to traces (residues) of these chemicals in food and they are expected to be found in the monitoring programme.

The Government authority responsible for checking pesticides in foodstuffs is the Health and Safety Executive. The Expert Committee on Pesticide Residues in Food oversees and provides an independent check on this work. This work was done previously by the Pesticide Residues Committee.

#### The Defra Expert Committee on Pesticide Residues in Food

The Expert Committee on Pesticide Residues in Food (PRiF) was established in 2011. Members of the Committee have a broad range of expertise relating to the food supply industry. The main function of the Committee is to oversee Government's £2 million pesticide residues surveillance programme.

Dr Paul Brantom is an independent consultant in toxicological risk assessment. The Committee also includes members with expertise in toxicology and food production and supply as well as two public interest members.

Information on the membership of the PRIF is also available on the PRIF's website.

Since 1 January 2005 the Health and Safety Executive (HSE) has been contracted by the Department of Health to undertake pesticide residue monitoring of produce supplied under the School Fruit and Vegetable Scheme (SF&VS). In accordance with the supply calendar HSE arrange for suppliers to submit samples on a regular basis, making sure that each supplier is tested at least once per term. HSE has requested that PRiF consider the results and examine the risk assessments from this monitoring.

## Part 2: Assessing the results

The sampling programme is designed to check that:

- · specified pesticide MRLs are being respected;
- users of pesticides are complying with conditions of use specified in the authorisation;
- dietary intakes of residues are within acceptable limits.

Once the analytical results are completed, the findings are assessed to determine if the residues found pose a risk to consumers.

#### When assessments are carried out

Single Residues

- All results are screened by HSE to check for intakes above the Acute Reference Dose (ARfD)
- Where intakes above the ARfD are identified, we consider a detailed risk assessment prepared by HSE (at Appendix D of this report).
- Our observations and the follow-up action taken are summarised in the section for that food.

**Multiple Residues** 

- Risk assessments are also carried out for residues of more than one pesticide from the same category/class of particular categories of pesticides, which have a similar toxicological mode of action (such as organophosphorus/carbamate, captan/folpet, triazoles or carbendazim/thiophanate methyl), are screened by HSE to check for intakes above the combined Acute Reference Dose (ARfD).
- Where combined intakes above the combined ARfD are identified, we consider a detailed combined risk assessment prepared by HSE (at Section II of this report).
- Our observations and any follow-up action taken are summarised in the section for that food commodity.

Risk assessment - conclusions

- Where, in the light of current knowledge and considering the usual level of scientific uncertainty (or precaution) the intake will not cause ill health the conclusion will say no effect on health is expected.
- Where, in the light of current knowledge and considering a slightly higher level of scientific uncertainty (or less precaution) the intake is not likely to cause ill health, the conclusion will be less definite and state that an effect on health is unlikely.
- Where scientific uncertainty is greater more information is provided.

Residues in UK produce of pesticides which are not approved for use on that crop in the UK.

- All residues found in UK-produced foods are checked by HSE to make sure the pesticide is approved for use.
- Where no UK approval is identified, details of the sample are referred to HSE's Enforcement Section for follow up. NHS Supply Chain would be informed before referral.
- Our observations and any follow-up action taken to date are summarised in the section for that food commodity. We may have to withhold details of samples while investigations are underway, in which case the details will be published in a later report.

Residues above the MRL, after taking into account measurement uncertainty

- Samples containing residues above the MRL are listed at Appendix B, and those which are clearly above the MRL after taking into account measurement uncertainty of plus or minus 50% are highlighted.
- Our observations and any follow-up action taken are summarised in the section for that food commodity.

Residues in organic food

- We monitor pesticide residues in all the UK food supply, including organic food.
- We are not responsible for checking compliance with the rules associated with organic production. However, when we do detect residues in an organic food we explain whether or not those residues indicate a breach of the rules and inform Defra's Organic Farming Branch in addition to NHS Supply Chain.

#### Brand Name Annex

- Full brand name details for every sample included in this report are published in a brand name annex. Within this annex, samples with results of interest are highlighted.

## **Part 3: The Results**

## Apples

Full details of pesticides sought and residues detected are in Table 2 at page 14 Suppliers details are in the Brand Name Annex at page 50

### Results

• 14 samples were tested for up to 371 pesticide residues

### <u>Eating</u>

- 14 samples imported from the EC
- All samples contained residues
- All of the samples contained residues below the relevant MRL
- 13 samples contained residues of more than one pesticide

### Conclusions

The laboratory detected 10 different pesticide residues. Following the Health and Safety Executive (HSE)'s risk assessment, we do not expect these residues to have an effect on health.

## Banana

Full details of pesticides sought and residues detected are in Table 3 at page 18 Suppliers details are in the Brand Name Annex at page 52

### **Results**

- 13 samples were tested for up to 370 pesticide residues
- 13 samples were imported from non-EC countries
- 3 samples tested did not contain any detectable residues
- 10 of the samples contained residues below the relevant MRLs
- 10 samples contained residues of more than one pesticide

### Conclusions

The results are for bananas tested whole, including the peel. MRLs for bananas are set on that basis. The risk assessment also assumed that the whole fruit, including the peel, was eaten.

The laboratory detected 8 different pesticide residues. Following the Health and Safety Executive (HSE)'s risk assessment, we do not expect these residues to have an effect on health.

## Carrots

Full details of pesticides sought and residues detected are in Table 4 at page 23 Suppliers details are in the Brand Name Annex at page 54

### Results

• 14 samples were tested for up to 372 pesticide residues

<u>Fresh</u>

- 14 samples came from the UK
- 1 sample tested did not contain any detectable residues
- 13 of the samples contained residues below the relevant MRLs
- 12 samples contained residues of more than one pesticide

## Conclusions

The laboratory detected 9 different pesticide residues. Following the Health and Safety Executive (HSE)'s risk assessment, we do not expect these residues to have an effect on health.

## Pears

Full details of pesticides sought and residues detected are in Table 5 at page 27 Suppliers details are in the Brand Name Annex at page 55

### **Results**

- 16 samples were tested for up to 375 pesticide residues
- 1 sample was imported from a non-EC country
- 15 samples imported from the EC
- All samples contained residues
- All of the samples contained residues below the relevant MRL
- 16 samples contained residues of more than one pesticide

### Conclusions

The laboratory detected 22 different pesticide residues. Following the Health and Safety Executive (HSE)'s risk assessment, we do not expect these residues to have an effect on health.

## Raisins

Full details of pesticides sought and residues detected are in Table 6 at page 32 Suppliers details are in the Brand Name Annex at page 58

### **Results**

- 4 samples were tested for up to 372 pesticide residues
- 2 samples were imported from non-EC countries
- 2 samples imported from the EC
- All samples contained residues
- All of the samples contained residues below the relevant MRL
- 4 samples contained residues of more than one pesticide

## Conclusions

The laboratory detected 11 different pesticide residues. Following the Health and Safety Executive (HSE)'s risk assessment, we do not expect these residues to have an effect on health.

## Soft citrus

Full details of pesticides sought and residues detected are in Table 7 at page 37 Risk assessments carried out by CRD are at page 46 Suppliers details are in the Brand Name Annex at page 59

## **Results**

14 samples were tested for up to 372 pesticide residues

<u>Clementine</u>

- 3 samples were imported from non-EC countries
- 11 samples imported from the EC
- All samples contained residues
- All of the samples contained residues below the relevant MRL
- 12 samples contained residues of more than one pesticide

## Conclusions

The laboratory detected 16 different pesticide residues. Based on the Health and Safety Exeuctive (HSE)'s risk assessment of the residues detected we consider an effect on health to be unlikely.

## **Appendix A: Summary of results**

## Table 1: Summary of Results

Commodity	Number of samples	Samples with no residues found	Samples with residues at or below MRL	Samples with residues above MRL	UK samples containing non-approved pesticide	Samples with multiple residues
Apples	14	0	14	0	0	13
Banana	13	3	10	0	0	10
Carrots	14	1	13	0	0	12
Pears	16	0	16	0	0	16
Raisins	4	0	4	0	0	4
Soft Citrus	14	0	14	0	0	12

N/A applies where either the commodity is not grown in the UK or no UK-grown samples were tested.

### **Maximum Residue Levels**

Maximum Residue Levels (MRLs) reflect levels of pesticides expected in produce, which has been treated in accordance with good agricultural practice. Where pesticides do not give rise to readily detectable residues, or are not approved for use on particular commodities, MRLs are set at the lowest level which can be identified in routine laboratory analysis. Thus, they provide a mechanism for statutory controls on pesticides in produce which is put into circulation and for monitoring correct use of these chemicals.

MRLs are established by the EC Maximum Residues Regulation 396/2005/EC and are enforced in the UK under the Pesticides (Maximum Residue Levels) (England and Wales) Regulations 2008, the Pesticides (Maximum Residue Levels) (Scotland) Regulations 2008 and the Pesticides (Maximum Residue Levels) Regulations (Northern Ireland) 2008.

## Appendix B: Summary of residues over the MRL and non-approved uses

### **Residues over the MRL**

None

### **Measurement uncertainty**

In 2009 the Pesticides Residues Committee agreed a policy of applying a default measurement uncertainty value of 50% to all results that measure above the MRL, unless there are particular safety reasons why a more accurate value should be used. If that is considered necessary we will explain why.

Using a measurement uncertainty value of 50% means the residue detected could be plus or minus 50% of the stated value. The PRiF will continue to apply this policy, so only when the lowest estimated level is above the MRL do the PRiF consider this result as an exceedance.

This uncertainty only applies to measurement of the size of residue. The identity of the pesticide detected has been confirmed.

Where the measured value does not exceed the MRL when measurement uncertainty is taken into account the value will not be highlighted as an exceedance in the Supplier Details section. The actual measured value will be used throughout the report and will be followed up with suppliers by HSE but with due reference to the implications of measurement uncertainty.

Further information about measurement uncertainty can be found on the PRiF website.

### \* Maximum Residue Levels set at the LOD (LOD MRL)

These MRLs are set at a default level, i.e. at the limit of determination (LOD) where analytical methods can reasonably detect the presence of the pesticide. Either insufficient trials data are available on which to set a maximum residue level or there may be no use of the pesticide on that crop in the EU. However they may be permitted elsewhere.

### **UK Non-approved Uses**

None

# Appendix C: Pesticides sought and found in individual commodities sampled between January and March 2017

Table 2a:	Analysis of apples sampled from January – April 2017
Table 2b:	Residues found in apples sampled from January – April 2017
Table 2c:	Pesticides sought but not found in apples sampled from January – April 2017
Table 3a:	Analysis of bananas sampled from January – March 2017
Table 3b:	Residues found in bananas sampled from January – March 2017
Table 3c:	Pesticides sought but not found in bananas sampled from January – March 2017
Table 4a:	Analysis of carrots sampled from January – March 2017
Table 4b:	Residues found in carrots sampled from January – March 2017
Table 4c:	Pesticides sought but not found in carrots sampled from January – March 2017
Table 5a:	Analysis of pears sampled from January – April 2017
Table 5b:	Residues found in pears sampled from January – April 2017
Table 5c:	Pesticides sought but not found in pears sampled from January – April 2017
Table 6a:	Analysis of raisins sampled from January – April 2017
Table 6b:	Residues found in raisins sampled from January – April 2017
Table 6c:	Pesticides sought but not found in raisins sampled from January – April 2017
Table 7a:	Analysis of soft citrus sampled from January – March 2017
Table 7b:	Residues found in soft citrus sampled from January – March 2017
Table 7c:	Pesticides sought but not found in soft citrus sampled from January – March 2017

The quantity of produce sampled is determined by EC Commission Directive 2002/63/EC:

- A sample of apples must weigh a minimum 1.2kg and contain at least 12 apples.
- A sample of bananas must weigh a minimum 1.2kg and contain at least 12 bananas.
- A sample of carrots must weigh a minimum 1.2kg and contain at least 12 carrots.
- A sample of pears must weigh a minimum 1.2kg and contain at least 12 pears.
- A sample of raisins must weigh at least 1.2 kg.
- A sample of soft citrus must weigh a minimum 1.2kg and contain at least 12 soft citrus.

All of the produce in a sample must be of the same variety and must be from the same batch of the commodity. MRLs are set to include residues found in the whole fruit (skin and flesh). The samples are not peeled before analysis. The results reported are for the whole fruit including the skin.

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
APPLES, EATING Imported (EC): 1	4 samples analysed	
acetamiprid	<0.01 (i.e. not found)	10
(MRL = 0.8)	0.01 - 0.03	4
boscalid	<0.01 (i.e. not found)	8
(MRL = 2)	0.01 - 0.08	6
captan (sum)	<0.02 (i.e. not found)	1
(MRL = 10)	0.04 - 0.7	13
flonicamid (sum)	<0.01 (i.e. not found)	9
(MRL = 0.3)	0.01 - 0.2	5
fludioxonil	<0.01 (i.e. not found)	10
(MRL = 5)	0.09 - 0.1	4
flutriafol	<0.01 (i.e. not found)	13
(MRL = 0.4)	0.01	1
methoxyfenozide	<0.01 (i.e. not found)	13
(MRL = 2)	0.02	1
pirimicarb (sum)	<0.01 (i.e. not found)	13
(MRL = 0.5)	0.01	1
pyraclostrobin	<0.01 (i.e. not found)	12
(MRL = 0.5)	0.01, 0.02	2
thiabendazole	<0.02 (i.e. not found)	13
(MRL = 5)	1.3	1

## Table 2a.Analysis of APPLES sampled from January to April 2017

Imported (EC) samples of apples were from Belgium (8), Poland (5), Spain (1).

Residues were distributed by country of origin, as follows:			
Poland (4)			
Belgium (4), Poland (1), Spain (1)			
Belgium (8), Poland (5)			
Belgium (4), Poland (1)			
Poland (1)			
Belgium (4)			
Poland (1)			
Spain (1)			
Poland (1), Spain (1)			
Spain (1)			

Residues were found in all of the 14 Imported (EC) eating samples

## Table 2b.Residues found in APPLES sampled from January to April 2017

Number of residues	Sample ID	Type of APPLES	ES Residues found (ma/ka)			Country of origin							
		<u> </u>	ACET	BOS	CAPS	FLC	FLF	FLUD	MXF	PIR	PYC	TBZ	
(1)	5600/2017	EATING	-	-	0.04	-	-	-	-	-	-	-	Poland
(0)	FFF0/0047			0.00	0.0								Delaium
(2)	5553/2017	EATING	-	0.02	0.6	-	-	-	-	-	-	-	Beigium
	5554/2017	EATING	-	0.01	0.5	-	-	-	-	-	-	-	Belgium
	5557/2017	EATING	-	0.02	0.7	-	-	-	-	-	-	-	Belgium
	5597/2017	EATING	-	0.02	0.5	-	-	-	-	-	-	-	Belgium
	5591/2017	EATING	0.03	-	0.2	-	-	-	-	-	-	-	Poland
	5598/2017	EATING	0.01	-	0.1	-	-	-	-	-	-	-	Poland
(3)	5566/2017	EATING	-	-	0.6	0.02	-	0.1	-	-	_	-	Belgium
	5567/2017	EATING	-	-	0.4	0.01	-	0.09	-	-	-	-	Belaium
	5568/2017	EATING	-	-	0.7	0.02	-	0.1	-	-	-	-	Belaium
	5569/2017	EATING	-	-	0.6	0.01	-	0.1	-	-	-	-	Belgium
	5595/2017	EATING	0.02	-	0.3	-	0.01	-	-	-	-	-	Poland
(4)	5602/2017	EATING	-	0.03	-	-	-	-	-	0.01	0.01	1.3	Spain
(6)	5604/2017	EATING	0.01	0.08	0.3	0.2	-	-	0.02	-	0.02	-	Poland

Residues (1-6 compounds) were found in 14 of the 14 samples as follows:

The abbreviations used for the pesticide names are as follows:

ACET	acetamiprid	BOS	boscalid	CAPS	captan (sum)
FLC	flonicamid (sum)	FLF	flutriafol	FLUD	fludioxonil
MXF	methoxyfenozide	PIR	pirimicarb (sum)	PYC	pyraclostrobin
TBZ	thiabendazole				

## Table 2c.Residues sought but not found in APPLES sampled from January to April2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-D (sum) (0.01) 2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzyladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02) atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) azoxystrobin (0.01) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) bifenthrin (0.01) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) buprofezin (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) carbaryl (0.01) carbendazim (sum) (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorantraniliprole (0.01) chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01) chlorfluazuron (0.01) chloridazon (0.01) chlorobenzilate (0.02)

EPTC (0.01) ethiofencarb (parent) (0.01) ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaquin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenoxycarb (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpropimorph (0.01) fenpyrazamine (0.01) fenpyroximate (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluopyram (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01) heptenophos (0.01) hexachlorobenzene (0.01) hexachlorocyclohexane (sum) (0.01)

napropamide (0.02) nitenpyram (0.01) nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01) oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) penthiopyrad (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosmet (sum) (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaquizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propiconazole (0.01) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfocarb (0.01) prosulfuron (0.01) prothioconazole (0.01) prothiofos (0.01) pymetrozine (0.01) pyrazophos (0.01) pyrethrins (0.01) pyridaben (0.01)

chlorothalonil (0.01) chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorpyrifos (0.01) chlorpyrifos-methyl (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cyfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cvpermethrin (sum) (0.02) cyproconazole (0.01) cyprodinil (0.02) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.02) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) difenoconazole (0.01) diflubenzuron (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01) diphenylamine (0.02) disulfoton (sum) (0.01) dithianon (0.02) dithiocarbamates (0.05) diuron (0.01) dodine (0.02) emamectin (0.01) endosulfan (sum) (0.01) endrin (0.02) EPN (0.01) epoxiconazole (0.01)

hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazalil (0.02) imazaguin (0.01) imidacloprid (0.01) indoxacarb (0.01) ioxynil (0.01) iprodione (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isopyrazam (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lambda-cyhalothrin (0.02) lenacil (0.01) lindane (0.01) linuron (0.01)lufenuron (0.02) malathion (sum) (0.01) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01) molinate (0.01) monocrotophos (0.01) monolinuron (0.01) Monuron (0.01) myclobutanil (0.01)

pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) pyrimethanil (0.01) pyriproxifen (0.01) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) quintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebuconazole (0.01) tebufenozide (0.01) tebufenpyrad (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tefluthrin (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01) terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiacloprid (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01) trifloxystrobin (0.01) triflumizole (0.01) triflumuron (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

### Table 3a. Analysis of BANANA sampled from January to March 2017

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Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range				
BANANA, Imported (Non-EC): 13 samples analysed						
azoxystrobin	<0.01 (i.e. not found)	7				
(MRL = 2)	0.01 - 0.4	6				
bifenthrin	<0.01 (i.e. not found)	11				
(MRL = 0.1)	0.01, 0.03	2				
buprofezin	<0.01 (i.e. not found)	11				
(MRL = 0.5)	0.01, 0.08	2				
dithiocarbamates	<0.05 (i.e. not found)	12				
(MRL = 2)	0.05	1				
fenpropimorph	<0.01 (i.e. not found)	11				
(MRL = 2)	0.01	2				
imazalil	<0.02 (i.e. not found)	6				
(MRL = 2)	0.04 - 0.4	7				
myclobutanil	<0.01 (i.e. not found)	9				
(MRL = 2)	0.02 - 0.3	4				
thiabendazole	<0.02 (i.e. not found)	8				
(MRL = 5)	0.04 - 0.1	5				

Imported (Non-EC) samples of banana were from Colombia (1), Costa Rica (7), Cote d'Ivoire (2), Dominican Republic (3).

Residues were distributed by country of origin, as follows: azoxystrobin Costa Rica (4), Cote d'Ivoire (2) bifenthrin Costa Rica (2) buprofezin Costa Rica (2) dithiocarbamates Costa Rica (1) fenpropimorph Costa Rica (2) imazalil Colombia (1), Costa Rica (4), Cote d'Ivoire (2) myclobutanil Costa Rica (4) thiabendazole Colombia (1), Costa Rica (4)

No residues were found in 3 of the 13 Imported (Non-EC) samples

## Table 3b.Residues found in BANANA sampled from January toMarch 2017

Number of	Sample ID		Residues found (mg/kg)					Country of origin		
10310003		AZOX	BIF	BUF	DTC	FNPM	IMZ	MYC	TBZ	
(2)	5619/2017	-	-	-	-	-	0.1	-	0.04	Colombia
	5627/2017	-	-	-	-	-	0.1	-	0.08	Costa Rica
	5644/2017	0.06	-	-	-	-	-	0.1	-	Costa Rica
	5582/2017	0.2	-	-	-	-	0.4	-	-	Cote
										d'Ivoire
	5583/2017	0.04	-	-	-	-	0.1	-	-	Cote
										d'Ivoire
(3)	5541/2017	-	-	-	-	0.01	0.2	-	0.1	Costa Rica
	5542/2017	0.01	-	0.01	-	-	-	0.02	-	Costa Rica
(1)	5542/2017	0.4	0.01		0.05			03		Costa Pica
(4)	5620/2017	0.4	0.01	-	0.05	-	-	0.3	-	Costa Rica
	5029/2017	0.05	-	-	-	-	0.04	0.07	0.04	CUSIA RICA
(5)	5613/2017	_	0.03	0.08	_	0.01	0.1	_	0.1	Costa Rica
( <b>0</b> )	0010/2017	_	0.00	0.00		0.01	0.1		0.1	

Residues (2-5 compounds) were found in 10 of the 13 samples as follows:

The abbreviations used for the pesticide names are as follows:

AZOX	azoxystrobin	BIF	bifenthrin	BUF	buprofezin
DTC	dithiocarbamates	FNPM	fenpropimorph	IMZ	imazalil
MYC	myclobutanil	TBZ	thiabendazole		

## Table 3c.Residues sought but not found in BANANA sampled from January to March2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-D (sum) (0.01) 2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzyladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetamiprid (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02)atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) boscalid (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) captan (sum) (0.02) carbaryl (0.01) carbendazim (sum) (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorantraniliprole (0.01) chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01)

ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaguin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenoxycarb (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpyrazamine (0.01) fenpyroximate (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) flonicamid (sum) (0.01) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) fludioxonil (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluopyram (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) flutriafol (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01)

nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01) oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) penthiopyrad (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosmet (sum) (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimicarb (sum) (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaguizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propiconazole (0.01) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfocarb (0.01) prosulfuron (0.01) prothioconazole (0.01) prothiofos (0.01) pymetrozine (0.01) pyraclostrobin (0.01)

chlorfluazuron (0.01) chloridazon (0.01) chlorobenzilate (0.02) chlorothalonil (0.01) chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorpyrifos (0.01) chlorpyrifos-methyl (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cyfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cypermethrin (sum) (0.02) cyproconazole (0.01) cyprodinil (0.02) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.01) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) difenoconazole (0.01) diflubenzuron (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01) diphenylamine (0.02) disulfoton (sum) (0.01) diuron (0.01) dodine (0.02) emamectin (0.01)

heptenophos (0.01) hexachlorobenzene (0.01) hexachlorocyclohexane (sum) (0.01) hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazaquin (0.01) imidacloprid (0.01) indoxacarb (0.01) ioxynil (0.01) iprodione (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isopyrazam (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lambda-cyhalothrin (0.01) lenacil (0.01) lindane (0.01) linuron (0.01) lufenuron (0.02) malathion (sum) (0.01) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) methoxyfenozide (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01)

pyrazophos (0.01) pyrethrins (0.01) pyridaben (0.01) pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) pyrimethanil (0.01) pyriproxifen (0.01) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) auintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebuconazole (0.01) tebufenozide (0.01) tebufenpyrad (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tefluthrin (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01) terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiacloprid (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01) trifloxystrobin (0.01) triflumizole (0.01) triflumuron (0.01)

endosulfan (sum) (0.01) endrin (0.02) EPN (0.01) epoxiconazole (0.01) EPTC (0.01) ethiofencarb (parent) (0.01) molinate (0.01) monocrotophos (0.01) monolinuron (0.01) Monuron (0.01) napropamide (0.02) nitenpyram (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
CARROT, FRESH UK: 14 samples a	nalysed	
azoxystrobin	<0.01 (i.e. not found)	12
(MRL = 1)	0.01	2
boscalid	<0.01 (i.e. not found)	4
(MRL = 2)	0.04 - 0.2	10
fenpropimorph	<0.01 (i.e. not found)	13
(MRL = 0.05*)	0.01	1
iprodione	<0.01 (i.e. not found)	10
(MRL = 10)	0.02	4
isopyrazam	<0.01 (i.e. not found)	13
(MRL = 0.2)	0.01	1
linuron	<0.01 (i.e. not found)	13
(MRL = 0.2)	0.02	1
prosulfocarb	<0.01 (i.e. not found)	13
(MRL = 1)	0.02	1
tebuconazole	<0.01 (i.e. not found)	1
(MRL = 0.4)	0.01 - 0.06	13
tefluthrin	<0.01 (i.e. not found)	13
(MRL = 0.05)	0.01	1

#### Analysis of CARROT sampled from January to March 2017 Table 4a.

NOTE: \* Indicates MRL is set to the Limit Of Detection.

UK samples of carrot were (14).

Residues were distributed by country of origin, as follows:

azoxystrobin	UK (2)
boscalid	UK (10)
fenpropimorph	UK (1)
iprodione	UK (4)
isopyrazam	UK (1)
linuron	UK (1)
prosulfocarb	UK (1)
tebuconazole	UK (13)
tefluthrin	UK (1)

No residues were found in 1 of the 14 UK fresh samples

## Table 4b.Residues found in CARROT sampled from January to March 2017

Number of residues	Sample ID	Type of CARROT	e of CARROT Residues found (mg/kg)								Country of origin	
	-		AZOX	BOS	FNPM	IPR	IPZM`	ĹŊŔ	PSC	TBC	TEF	
(1)	5501/2017	FRESH	-	-	-	-	-	-	-	0.02	-	UK
(2)	5504/2017	FRESH	-	-	0.01	-	-	-	-	0.01	-	UK
	5506/2017	FRESH	-	0.04	-	-	-	-	-	0.01	-	UK
	5507/2017	FRESH	-	0.2	-	-	-	-	-	0.03	-	UK
	5511/2017	FRESH	-	0.07	-	-	-	-	-	0.03	-	UK
(3)	5502/2017	FRESH	-	-	-	-	-	-	0.02	0.01	0.01	UK
. ,	5505/2017	FRESH	-	0.1	-	-	-	0.02	-	0.01	-	UK
	5513/2017	FRESH	0.01	0.2	-	-	-	-	-	0.03	-	UK
	5518/2017	FRESH	-	0.1	-	0.02	-	-	-	0.05	-	UK
	5519/2017	FRESH	-	0.1	-	0.02	-	-	-	0.06	-	UK
	5520/2017	FRESH	-	0.1	-	0.02	-	-	-	0.06	-	UK
	5524/2017	FRESH	-	0.05	-	0.02	-	-	-	0.05	-	UK
(4)	5522/2017	FRESH	0.01	0.1	-	-	0.01	-	-	0.04	-	UK

Residues (1-4 compounds) were found in 13 of the 14 samples as follows:

The abbreviations used for the pesticide names are as follows:

AZOX	azoxystrobin	BOS	boscalid	FNPM	fenpropimorph
IPR	iprodione	IPZM	isopyrazam	LNR	linuron
PSC	prosulfocarb	TBC	tebuconazole	TEF	tefluthrin

## Table 4c.Residues sought but not found in CARROT sampled from January to March2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-D (sum) (0.01) 2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzyladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetamiprid (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02) atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) bifenthrin (0.01) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) buprofezin (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) captan (sum) (0.02)carbaryl (0.01) carbendazim (sum) (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorantraniliprole (0.01) chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01) chlorfluazuron (0.01) chloridazon (0.01)

epoxiconazole (0.01) EPTC (0.01) ethiofencarb (parent) (0.01) ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaquin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenoxycarb (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpyrazamine (0.01) fenpyroximate (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) flonicamid (sum) (0.01) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) fludioxonil (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluopyram (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) flutriafol (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01)

myclobutanil (0.01) napropamide (0.02) nitenpyram (0.01) nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01) oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) penthiopyrad (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosmet (sum) (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimicarb (sum) (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaquizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propiconazole (0.01) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfuron (0.01) prothioconazole (0.01) prothiofos (0.01) pymetrozine (0.01) pyraclostrobin (0.01) pyrazophos (0.01)

chlormequat (0.02) chlorobenzilate (0.02) chlorothalonil (0.01) chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorpyrifos (0.01) chlorpyrifos-methyl (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cvfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cypermethrin (sum) (0.02) cyproconazole (0.01) cyprodinil (0.02) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.02) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) difenoconazole (0.01) diflubenzuron (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01) diphenylamine (0.02) disulfoton (sum) (0.01) dithiocarbamates (0.05) diuron (0.01) dodine (0.02) emamectin (0.01) endosulfan (sum) (0.01) endrin (0.02) EPN (0.01)

heptenophos (0.01) hexachlorobenzene (0.01) hexachlorocyclohexane (sum) (0.01) hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazalil (0.02) imazaquin (0.01) imidacloprid (0.01) indoxacarb (0.01) ioxynil (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lambda-cyhalothrin (0.02) lenacil (0.01) lindane (0.01) lufenuron (0.02) malathion (sum) (0.01) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepiquat (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) methoxyfenozide (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01) molinate (0.01) monocrotophos (0.01) monolinuron (0.01) Monuron (0.01)

pyrethrins (0.01) pyridaben (0.01) pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) pyrimethanil (0.01) pyriproxifen (0.01) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) quintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebufenozide (0.01) tebufenpyrad (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01) terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiabendazole (0.02) thiacloprid (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01) trifloxystrobin (0.01) triflumizole (0.01) triflumuron (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
PEARS, Imported (Non-EC):	1 samples analysed	
captan (sum)	<0.02 (i.e. not found)	0
(MRL = 10)	1.8	1
carbendazim (sum)	<0.01 (i.e. not found)	0
(MRL = 0.2)	0.02	1
cyprodinil	<0.02 (i.e. not found)	0
(MRL = 2)	0.3	1
fludioxonil	<0.01 (i.e. not found)	0
(MRL = 5)	0.2	1
PEARS, Imported (EC): 15 sa	amples analysed	
boscalid	<0.01 (i.e. not found)	7
(MRL = 1.5)	0.03 - 0.3	8
captan (sum)	<0.02 (i.e. not found)	8
(MRL = 10)	0.02 - 1.4	7
chlorantraniliprole	<0.01 (i.e. not found)	14
(MRL = 0.5)	0.03	1
chlormequat	<0.02 (i.e. not found)	9
(MRL = 0.1)	0.02 - 0.09	6
cyprodinil	<0.02 (i.e. not found)	11
(MRL = 2)	0.02 - 0.6	4
difenoconazole	<0.01 (i.e. not found)	13
(MRL = 0.8)	0.01, 0.02	2
diflubenzuron	<0.01 (i.e. not found)	13
(MRL = 5)	0.02	2
dithiocarbamates	<0.05 (i.e. not found)	7
(MRL = 5)	0.06 - 1.1	8
fenoxycarb	<0.01 (i.e. not found)	13
(MRL = 1)	0.01, 0.02	2
fludioxonil	<0.01 (i.e. not found)	3
(MRL = 5)	0.05 - 4.6	12
fluopyram	<0.01 (i.e. not found)	10
(MRL = 0.5)	0.02 - 0.2	5
imazalil	<0.02 (i.e. not found)	14
(MRL = 2)	1.6	1
iprodione	<0.01 (i.e. not found)	14
(MRL = 6)	0.1	1
penthiopyrad	<0.01 (i.e. not found)	13
(MRL = 0.5)	0.01, 0.02	2

## Table 5a.Analysis of PEARS sampled from January to April 2017

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
phosmet (sum)	<0.01 (i.e. not found)	14
(MRL = 0.5)	0.02	1
pyraclostrobin	<0.01 (i.e. not found)	11
(MRL = 0.5)	0.01 - 0.08	4
pyrimethanil	<0.01 (i.e. not found)	13
(MRL = 15)	0.07, 0.9	2
tebuconazole	<0.01 (i.e. not found)	9
(MRL = 0.3)	0.02 - 0.2	6
thiabendazole	<0.02 (i.e. not found)	14
(MRL = 5)	0.1	1
thiacloprid	<0.01 (i.e. not found)	7
(MRL = 0.3)	0.01 - 0.2	8
trifloxystrobin	<0.01 (i.e. not found)	11
(MRL = 0.7)	0.01 - 0.05	4
triflumuron	<0.01 (i.e. not found)	14
(MRL = 0.5)	0.02	1

Imported (EC) samples of pears were from Belgium (7), Portugal (8). Imported (Non-EC) samples of pears were from Morocco (1).

Residues were distributed by country of origin, as follows: boscalid Belgium (5), Portugal (3) captan (sum) Belgium (6), Morocco (1), Portugal (1) carbendazim (sum) Morocco (1) chlormequat Belgium (6) chlorantraniliprole Belgium (1) cyprodinil Belgium (4), Morocco (1) diflubenzuron Portugal (2) difenoconazole Belgium (2) dithiocarbamates Belgium (1), Portugal (7) fenoxycarb Portugal (2) fludioxonil Belgium (4), Morocco (1), Portugal (8) fluopyram Portugal (5) imazalil Portugal (1) iprodione Portugal (1) Portugal (1) phosmet (sum) penthiopyrad Portugal (2) pyraclostrobin Belgium (3), Portugal (1) Belgium (2) pyrimethanil tebuconazole Portugal (6) thiabendazole Portugal (1) triflumuron Portugal (1) thiacloprid Portugal (8) trifloxystrobin Portugal (4)

Residues were found in all of the 1 Imported (Non-EC) samples Residues were found in all of the 15 Imported (EC) samples

Residues (2-9 compounds) were found in 16 of the 16 samples as follows:																									
Number of	Sample ID											Residue	es found (i	ng/kg)											Country of origin
residues		BOS	CAPS	CBZ	CLQ	CTP	CYD	DIF	DIFC	DTC	FEO	FLUD	FPYM	IMZ	IPR	PMT	PTPD	PYC	PYM	TBC	TBZ	TFM	THC	TRFL	
(2)	5556/2017	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06	-	-	-	-	-	-	Belgium
(3)	5596/2017	-	0.03	-	0.04	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Belgium
(4)	5559/2017 5580/2017	- 0.2	1.8 0.2	0.02 -	- 0.03	-	0.3 -	-	-	-	-	0.2 -	-	-	-	-	-	- 0.08	-	-	-	-	-	-	Morocco Belgium
(5)	5551/2017 5592/2017 5558/2017	0.03 - 0.04	0.2 0.4 -	- - -	0.02 0.03 -	- 0.03 -	0.02 0.2 -	- - 0.02	- -	- - 0.07	- - -	0.05 0.1 0.07	- - -	- - -	- -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - 0.02	- - -	Belgium Belgium Portugal
(6)	5601/2017 5533/2017 5535/2017	0.03 - -	0.3 - -	- - -	0.09 - -	- - -	0.6 - -	- - -	- -	- 0.5 0.6	- - -	0.3 1.9 3.6	- 0.06 0.2	- - -	- - -	- - -	- -	- - -	0.9 - -	- 0.04 0.2	- - -	- - -	- 0.03 0.09	- 0.01 0.02	Belgium Portugal Portugal
(7)	5531/2017 5532/2017 5534/2017 5599/2017	- 0.05 - 0.3	- - - 1.4	- - -	- - -	- - -	- - -	0.02 - - -	- - -	0.1 0.4 1.1	- 0.02 0.01 -	1.7 0.1 4.6 0.2	0.06 - 0.2 -	- - - 1.6	0.1 - - -	- - -	- 0.02 - -	- - - 0.03	- - -	0.1 0.03 0.2 -	- - - 0.1	- - -	0.2 0.01 0.09 0.1	- - 0.05 -	Portugal Portugal Portugal Portugal
(9)	5603/2017 5562/2017	0.05 -	0.02 -	-	0.03 -	-	0.2 -	-	0.02 -	0.06 0.2	-	0.1 0.2	- 0.02	-	-	- 0.02	- 0.01	0.01 -	0.07 -	- 0.02	-	- 0.02	- 0.03	- 0.01	Belgium Portugal
The ab BOS CLQ DTC IMZ PYM TFM	breviations boscali chlorm dithioca imazali pyrime triflumu	id equat arbam il thanil uron	for the	pesti	cide na CAPS CLQ FEO IPR PTPE THC	ames S	are as captar chlorm fenoxy iprodic penthi thiaclo	s follov n (sum nequa /carb one opyra opyra	ws: 1) t		CB2 DIF FLU PTF TB0 TR1	Z JD PD C FL	carber diflube fludiox penthio tebucc trifloxy	ndazin enzurc onil opyra onazol strobi	n (su on d le in	m)	CLO DIF FP PYO TB2		chlo difer fluor pyra thial	rmequ nocon oyram iclostr oenda	uat azole obin zole				

## Table 5b. Residues found in PEARS sampled from January to April 2017

## Table 5c.Residues sought but not found in PEARS sampled from January to April2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-D (sum) (0.01) 2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzyladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetamiprid (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02) atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) azoxystrobin (0.01) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) bifenthrin (0.01) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) buprofezin (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) carbaryl (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01) chlorfluazuron (0.01) chloridazon (0.01) chlorobenzilate (0.02) chlorothalonil (0.01)

ethiofencarb (parent) (0.01) ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaquin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpropimorph (0.01) fenpvrazamine (0.01) fenpyroximate (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) flonicamid (sum) (0.01) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) flutriafol (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) glyphosate (0.1) halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01) heptenophos (0.01) hexachlorobenzene (0.01) hexachlorocyclohexane (sum) (0.01) monolinuron (0.01) Monuron (0.01) myclobutanil (0.01) napropamide (0.02) nitenpyram (0.01) nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01) oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimicarb (sum) (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaguizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propiconazole (0.01) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfocarb (0.01) prosulfuron (0.01) prothioconazole (0.01) prothiofos (0.01) pymetrozine (0.01) pyrazophos (0.01)

chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorpyrifos (0.01) chlorpyrifos-methyl (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cyfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cypermethrin (sum) (0.02) cyproconazole (0.01) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.01) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01) diphenylamine (0.02) disulfoton (sum) (0.01) dithianon (0.02) diuron (0.01) dodine (0.02) emamectin (0.01) endosulfan (sum) (0.01) endrin (0.02) EPN (0.01) epoxiconazole (0.01) EPTC (0.01) ethephon (0.05)

hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazaquin (0.01) imidacloprid (0.01) indoxacarb (0.01) ioxynil (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isopyrazam (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lambda-cyhalothrin (0.01) lenacil (0.01) lindane (0.01) linuron (0.01)lufenuron (0.02) malathion (sum) (0.01) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepiquat (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) methoxyfenozide (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01) molinate (0.01) monocrotophos (0.01)

pyrethrins (0.01) pyridaben (0.01) pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) pyriproxifen (0.01) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) quintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebufenozide (0.01) tebufenpyrad (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tefluthrin (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01) terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01) triflumizole (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range						
SFVS RAISINS, Imported (Non-EC): 2 samples analysed								
boscalid	<0.01 (i.e. not found)	0						
(MRL = 25)	0.06, 0.07	2						
cyprodinil	<0.02 (i.e. not found)	0						
(MRL = 15)	0.1, 0.2	2						
fludioxonil	<0.01 (i.e. not found)	0						
(MRL = 25)	0.01, 0.03	2						
fluopyram	<0.01 (i.e. not found)	1						
(MRL = 7.5)	0.01	1						
indoxacarb	<0.01 (i.e. not found)	0						
(MRL = 10)	0.01, 0.03	2						
iprodione	<0.01 (i.e. not found)	0						
(MRL = 100)	0.08, 0.1	2						
methoxyfenozide	<0.01 (i.e. not found)	0						
(MRL = 5)	0.07	2						
pyrimethanil	<0.01 (i.e. not found)	0						
(MRL = 25)	0.2	2						
tebuconazole	<0.01 (i.e. not found)	1						
(MRL = 2.5)	0.03	1						
tebufenpyrad	<0.01 (i.e. not found)	1						
(MRL = 2.5)	0.02	1						
SFVS RAISINS, Imported (EC): 2 sa	amples analysed							
boscalid	<0.01 (i.e. not found)	0						
(MRL = 25)	0.06, 0.07	2						
cyprodinil	<0.02 (i.e. not found)	0						
(MRL = 15)	0.1, 0.2	2						
indoxacarb	<0.01 (i.e. not found)	1						
(MRL = 10)	0.01	1						
iprodione	<0.01 (i.e. not found)	0						
(MRL = 100)	0.1	2						
lambda-cyhalothrin	<0.01 (i.e. not found)	0						
(MRL = 1)	0.05	2						
methoxyfenozide	<0.01 (i.e. not found)	0						
(MRL = 5)	0.05, 0.06	2						
pyrimethanil	<0.01 (i.e. not found)	0						
(MRL = 25)	0.1, 0.2	2						

## Table 6a. Analysis of RAISINS sampled from January to April 2017

Imported (EC) samples of sfvs raisins were from Spain (2).

Imported (Non-EC) samples of sfvs raisins were from Turkey (2).

Residues were distributed by country of	of origin, as follows:
boscalid	Spain (2), Turkey (2)
cyprodinil	Spain (2), Turkey (2)
fludioxonil	Turkey (2)
fluopyram	Turkey (1)
indoxacarb	Spain (1), Turkey (2)
iprodione	Spain (2), Turkey (2)
lambda-cyhalothrin	Spain (2)
methoxyfenozide	Spain (2), Turkey (2)
pyrimethanil	Spain (2), Turkey (2)
tebuconazole	Turkey (1)
tebufenpyrad	Turkey (1)

Residues were found in all of the 2 Imported (Non-EC) samples Residues were found in all of the 2 Imported (EC) samples

## Table 6b.Residues found in RAISINS sampled from January to April 2017

Number of residues	Sample ID		Residues found (mg/kg)							Country of origin			
		BOS	CYD	FLUD	FPYM	IDX	IPR	LČY	MXF	PYM	TBC	TEBF	
(6)	5594/2017	0.06	0.1	-	-	-	0.1	0.05	0.05	0.1	-	-	Spain
(7)	5593/2017	0.07	0.2	-	-	0.01	0.1	0.05	0.06	0.2	-	-	Spain
(8)	5705/2017	0.07	0.2	0.03	-	0.03	0.1	-	0.07	0.2	-	0.02	Turkey
(9)	5706/2017	0.06	0.1	0.01	0.01	0.01	0.08	-	0.07	0.2	0.03	-	Turkey

Residues (6-9 compounds) were found in 4 of the 4 samples as follows:

The abbreviations used for the pesticide names are as follows:

BOS	boscalid	CYD	cyprodinil	FLUD	fludioxonil
FPYM	fluopyram	IDX	indoxacarb	IPR	iprodione
LCY	lambda-cyhalothrin	MXF	methoxyfenozide	PYM	pyrimethanil
TBC	tebuconazole	TEBF	tebufenpyrad		

## Table 6c.Residues sought but not found in RAISINS sampled from January to April2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-D (sum) (0.01) 2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzyladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetamiprid (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02) atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) azoxystrobin (0.01) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) bifenthrin (0.01) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) buprofezin (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) captan (sum) (0.02) carbaryl (0.01) carbendazim (sum) (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorantraniliprole (0.01) chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01) chlorfluazuron (0.01)

ethiofencarb (parent) (0.01) ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) ETU (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaquin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenoxycarb (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpropimorph (0.01) fenpyrazamine (0.01) fenpyroximate (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) flonicamid (sum) (0.01) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) flutriafol (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01) heptenophos (0.01) hexachlorobenzene (0.01)

nitenpyram (0.01) nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01) oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) penthiopyrad (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosmet (sum) (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimicarb (sum) (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaguizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propiconazole (0.01) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfocarb (0.01) prosulfuron (0.01) prothioconazole (0.01) prothiofos (0.01) PTU (0.01) pymetrozine (0.01) pyraclostrobin (0.01) pyrazophos (0.01)

chloridazon (0.01) chlorobenzilate (0.02) chlorothalonil (0.01) chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorpyrifos (0.01) chlorpyrifos-methyl (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cvfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cypermethrin (sum) (0.02) cyproconazole (0.01) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.01) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) difenoconazole (0.01) diflubenzuron (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01) diphenylamine (0.02) disulfoton (sum) (0.01) diuron (0.01) dodine (0.02) emamectin (0.01) endosulfan (sum) (0.01) endrin (0.02) EPN (0.01) epoxiconazole (0.01) EPTC (0.01)

hexachlorocyclohexane (sum) (0.01) hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazalil (0.02) imazaguin (0.01) imidacloprid (0.01) inorganic bromide (20) ioxynil (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isopyrazam (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lenacil (0.01) lindane (0.01) linuron (0.01)lufenuron (0.02) malathion (sum) (0.01) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01) molinate (0.01) monocrotophos (0.01) monolinuron (0.01) Monuron (0.01) myclobutanil (0.01) napropamide (0.02)

pyrethrins (0.01) pyridaben (0.01) pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) pyriproxifen (0.01) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) quintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebufenozide (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tefluthrin (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01) terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiabendazole (0.02) thiacloprid (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01) trifloxystrobin (0.01) triflumizole (0.01) triflumuron (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
CLEMENTINE Imported (Non-EC):	3 samples analysed	
2,4-D (sum)	<0.01 (i.e. not found)	0
(MRL = 1)	0.06 - 0.1	3
fludioxonil	<0.01 (i.e. not found)	1
(MRL = 10)	2, 2.2	2
imazalil	<0.01 (i.e. not found)	0
(MRL = 5)	0.7 - 2.1	3
propiconazole	<0.01 (i.e. not found)	0
(MRL = 5)	0.04 - 3.5	3
pyrimethanil	<0.01 (i.e. not found)	2
(MRL = 8)	1.3	1
thiabendazole	<0.01 (i.e. not found)	0
(MRL = 5)	0.7 - 1.4	3
CLEMENTINE Imported (EC): 11 sa	mples analysed	
chlorpyrifos	<0.01 (i.e. not found)	9
(MRL = 1.5)	0.02, 0.04	2
chlorpyrifos-methyl	<0.01 (i.e. not found)	10
(MRL = 1)	0.02	1
dithiocarbamates	<0.05 (i.e. not found)	7
(MRL = 5)	0.08 - 0.3	4
fenpyroximate	<0.01 (i.e. not found)	10
(MRL = 0.5)	0.04	1
flonicamid (sum)	<0.01 (i.e. not found)	10
(MRL = 0.15)	0.01	1
imazalil	<0.01 (i.e. not found)	1
(MRL = 5)	0.2 - 3.5	10
imidacloprid	<0.01 (i.e. not found)	10
(MRL = 1)	0.02	1
lambda-cyhalothrin	<0.01 (i.e. not found)	10
(MRL = 0.2)	0.04	1
malathion (sum)	<0.01 (i.e. not found)	10
(MRL = 2)	0.02	1
propiconazole	<0.01 (i.e. not found)	4
(MRL = 5)	0.02 - 0.8	7
pyrimethanil	<0.01 (i.e. not found)	5
(MRL = 8)	0.1 - 1.5	6
pyriproxifen	<0.01 (i.e. not found)	10
(MRL = 0.6)	0.02	1

## Table 7a. Analysis of SOFT CITRUS sampled from January to March 2017

Commodity/Pesticide	Concentration range (mg/kg)	Number of samples in range
tebufenpyrad	<0.01 (i.e. not found)	10
(MRL = 0.6)	0.03	1
thiabendazole	<0.01 (i.e. not found)	9
(MRL = 5)	0.03, 0.2	2

Imported (EC) samples of soft citrus were from Belgium (1), Spain (10). Imported (Non-EC) samples of soft citrus were from Morocco (3).

Residues were distributed by country of	f origin, as follows:
2,4-D (sum)	Morocco (3)
chlorpyrifos	Belgium (1), Spain (1)
chlorpyrifos-methyl	Spain (1)
dithiocarbamates	Spain (4)
flonicamid (sum)	Belgium (1)
fludioxonil	Morocco (2)
fenpyroximate	Spain (1)
imidacloprid	Spain (1)
imazalil	Belgium (1), Morocco (3), Spain (9)
lambda-cyhalothrin	Belgium (1)
malathion (sum)	Belgium (1)
propiconazole	Belgium (1), Morocco (3), Spain (6)
pyrimethanil	Belgium (1), Morocco (1), Spain (5)
pyriproxifen	Spain (1)
thiabendazole	Belgium (1), Morocco (3), Spain (1)
tebufenpyrad	Spain (1)

Residues were found in all of the 3 Imported (Non-EC) clementine samples Residues were found in all of the 11 Imported (EC) clementine samples

## Table 7b. Residues found in SOFT CITRUS sampled from January to March 2017

Number of     Sample ID     Type of SOFT     Residues found (mg/kg)       residues     CITRUS					Country of														
			24DS	CPF	CPFME	DTC	FLC	FLUD	FNPY	IMI	IMZ	LCY	MAL	PCZ	PYM	PYX	TBZ	TEBF	ongin
(1)	5512/2017 5563/2017	CLEMENTINE CLEMENTINE	-	- -	-	- -	-	-	-	-	0.2 0.4	- -	- -	-	- -	- -	- -	-	Spain Spain
(2)	5523/2017 5561/2017	CLEMENTINE CLEMENTINE	-	- -	0.02 -	- 0.08	- -	-	0.04 -	-	- 0.6	- -	- -	- -	- -	-	- -	-	Spain Spain
(3)	5521/2017	CLEMENTINE	-	-	-	-	-	-	-	-	3.5	-	-	0.09	0.1	-	-	-	Spain
(4)	5515/2017 5516/2017 5517/2017 5525/2017	CLEMENTINE CLEMENTINE CLEMENTINE CLEMENTINE	- - -	- - -	- - -	0.08 - 0.09 0.3	- - -	- - -	- - -	- 0.02 - -	1.1 2.7 1.2 2.1	- - -	- - -	0.09 0.02 0.1 0.2	0.2 1.5 0.2 0.3	- - -	- - -	- - -	Spain Spain Spain Spain
(5)	5552/2017 5555/2017 5626/2017	CLEMENTINE CLEMENTINE CLEMENTINE	0.1 0.06 0.1	- - -	- -	- - -	- - -	2.2 - 2	- -	- - -	0.7 2.1 0.7	- - -	- - -	3.5 0.04 2.9	- 1.3 -	- - -	0.8 1.4 0.7	- -	Morocco Morocco Morocco
(6)	5514/2017	CLEMENTINE	-	0.02	-	-	-	-	-	-	0.9	-	-	0.07	-	0.02	0.2	0.03	Spain
(8)	5560/2017	CLEMENTINE	-	0.04	-	-	0.01	-	-	-	0.5	0.04	0.02	0.8	0.4	-	0.03	-	Belgium

Residues (1-8 compounds) were found in 14 of the 14 samples as follows:

The abbreviations used for the pesticide names are as follows:

24DS	2,4-D (sum)	CPF	chlorpyrifos	CPFME	chlorpyrifos-methyl	DTC	dithiocarbamates
FLC	flonicamid (sum)	FLUD	fludioxonil	FNPY	fenpyroximate	IMI	imidacloprid
IMZ	imazalil	LCY	lambda-cyhalothrin	MAL	malathion (sum)	PCZ	propiconazole
PYM	pyrimethanil	PYX	pyriproxifen	TBZ	thiabendazole	TEBF	tebufenpyrad

## Table 7c.Residues sought but not found in SOFT CITRUS sampled fromJanuary to March 2017

The following pesticide(s) were actively sought but not found at or above their reporting limits (in parentheses in mg/kg):

2,4-DB (0.01) 2-phenylphenol (0.02) 6-benzvladenine (0.01) abamectin (sum) (0.01) acephate (0.01) acetamiprid (0.01) acetochlor (0.01) acibenzolar-s-methyl (0.01) aclonifen (0.02) acrinathrin (0.02) alachlor (0.01) aldicarb (sum) (0.01) allethrin (0.02) alpha-HCH (0.01) ametoctradin (0.01) amidosulfuron (0.01) amitraz (sum) (0.01) asulam (0.02)atrazine (0.01) azinphos-ethyl (0.02) azinphos-methyl (0.02) azoxystrobin (0.01) BAC (sum) (0.05) benalaxyl (0.01) bendiocarb (0.01) benfuracarb (0.001) benthiavalicarb (sum) (0.01) beta-HCH (0.01) bifenox (0.02) bifenthrin (0.01) biphenyl (0.01) bispyribac-sodium (0.01) bitertanol (0.01) bixafen (0.01) boscalid (0.01) bromophos-ethyl (0.01) bromopropylate (0.01) bromoxynil (sum) (0.01) bromuconazole (0.01) bupirimate (0.01) buprofezin (0.01) butachlor (0.01) butocarboxim (parent) (0.01) butoxycarboxim (0.01) cadusafos (0.01) captan (0.02) captan (sum) (0.02) carbaryl (0.01) carbendazim (sum) (0.01) carbetamide (0.02) carbofuran (sum) (0.001) carbosulfan (0.001) carboxin (0.02) chlorantraniliprole (0.01)

EPTC (0.01) ethephon (0.05) ethiofencarb (parent) (0.01) ethion (0.01) ethirimol (0.01) ethofumesate (0.01) ethoprophos (0.01) etofenprox (0.01) etoxazole (0.01) etridiazole (0.02) etrimfos (0.01) famoxadone (0.01) fenamidone (0.01) fenamiphos (sum) (0.01) fenarimol (0.01) fenazaquin (0.01) fenbuconazole (0.01) fenbutatin oxide (0.02) fenhexamid (0.02) fenitrothion (0.01) fenoxycarb (0.01) fenpropathrin (0.01) fenpropidin (0.01) fenpropimorph (0.01) fenpyrazamine (0.01) fensulfothion (sum) (0.01) fenthion (partial sum) (0.01) fenvalerate (sum) (0.01) fipronil (sum) (0.005) fluazifop-p (sum) (0.01) fluazinam (0.01) flubendiamide (0.01) flucythrinate (0.01) flufenacet (0.01) flufenoxuron (0.02) fluometuron (0.01) fluopicolide (0.01) fluopyram (0.01) fluoxastrobin (0.01) fluquinconazole (0.01) flurochloridone (0.02) fluroxypyr (sum) (0.02) flusilazole (0.01) flutolanil (0.01) flutriafol (0.01) fluxapyroxad (0.01) folpet (0.01) Folpet (sum) (0.01) fonofos (0.01) formetanate (0.01) fosthiazate (0.01) furalaxyl (0.01) furathiocarb (0.001) glyphosate (0.1)

napropamide (0.02) nitenpyram (0.01) nitrofen (0.02) nitrothal-isopropyl (0.01) Novaluron (0.01) nuarimol (0.01) ofurace (0.01) Oxadiargyl (0.01) oxadiazon (0.02) oxadixyl (0.01) oxamyl (0.01) oxasulfuron (0.01) oxydemeton-methyl (sum) (0.01)oxyfluorfen (0.02) paclobutrazol (0.01) parathion (0.01) parathion-methyl (sum) (0.01) penconazole (0.01) pencycuron (0.01) pendimethalin (0.01) penflufen (0.01) pentanochlor (0.01) penthiopyrad (0.01) permethrin (sum) (0.01) phenmedipham (0.02) phenthoate (0.01) phorate (partial sum) (0.01) phosalone (0.01) phosmet (sum) (0.01) phosphamidon (0.01) phoxim (0.01) picolinafen (0.01) picoxystrobin (0.01) piperonyl butoxide (0.01) pirimicarb (sum) (0.01) pirimiphos-ethyl (0.01) pirimiphos-methyl (0.01) prochloraz (parent only) (0.01) procymidone (0.01) profenofos (0.01) promecarb (0.01) prometryn (0.01) propachlor (0.01) propamocarb (sum) (0.01) propaguizafop (0.02) propargite (0.01) propetamphos (0.01) propham (0.02) propoxur (0.01) propyzamide (0.01) proquinazid (0.01) prosulfocarb (0.01) prosulfuron (0.01) prothioconazole (0.01)

chlorbufam (0.01) chlordane (sum) (0.01) chlorfenapyr (0.01) chlorfenvinphos (0.01) chlorfluazuron (0.01) chloridazon (0.01) chlorobenzilate (0.02) chlorothalonil (0.01) chlorotoluron (0.01) chlorpropham (sum) (0.01) chlorthal-dimethyl (0.01) chlozolinate (0.01) chromafenozide (0.01) clethodim (0.02) clofentezine (0.01) clomazone (0.01) clothianidin (0.01) coumaphos (0.01) cyanazine (0.02) cyazofamid (0.01) cycloate (0.01) cycloxydim (0.02) cyflufenamid (0.01) cyfluthrin (sum) (0.02) cyhalofop-butyl (sum) (0.01) cymoxanil (0.01) cypermethrin (sum) (0.02) cyproconazole (0.01) cyprodinil (0.02) cyromazine (0.02) DDAC (sum) (0.05) DDT (sum) (0.01) deltamethrin (0.01) demeton-S-methyl (0.01) desmedipham (0.02) diafenthiuron (0.02) diazinon (0.01) dichlobenil (0.01) dichlofluanid (0.01) dichlorprop (sum) (0.01) dichlorvos (0.01) diclobutrazol (0.01) dicloran (0.01) dicofol (sum) (0.01) dicrotophos (0.01) Dieldrin (sum) (0.01) diethofencarb (0.01) difenoconazole (0.01) diflubenzuron (0.01) diflufenican (0.01) dimethenamid (sum) (0.01) dimethoate (sum) (0.01) dimethomorph (0.01) dimoxystrobin (0.01) diniconazole (0.01) dinotefuran (0.01)

halofenozide (0.01) halosulfuron-methyl (0.01) haloxyfop (sum) (0.01) Heptachlor (sum) (0.01) heptenophos (0.01) hexachlorobenzene (0.01) hexachlorocyclohexane (sum) (0.01) hexaconazole (0.01) hexazinone (0.02) hexythiazox (0.01) imazaguin (0.01) indoxacarb (0.01) ioxvnil (0.01) iprodione (0.01) iprovalicarb (0.01) isazophos (0.01) isocarbophos (0.01) isofenphos (0.01) isofenphos-methyl (0.01) isoprocarb (0.01) isoprothiolane (0.01) isoproturon (0.01) isopyrazam (0.01) isoxaben (0.01) isoxaflutole (0.01) kresoxim-methyl (0.01) lenacil (0.01) lindane (0.01) linuron (0.01) lufenuron (0.02) mandipropamid (0.01) MCPA only (0.01) MCPA, MCPB and MCPA thioethyl expressed (0.01) mecarbam (0.01) mepanipyrim (sum) (0.01) mephosfolan (0.02) mepronil (0.01) mesosulfuron-methyl (0.01) metaflumizone (sum) (0.02) metalaxyl (sum) (0.01) metamitron (0.01) metazachlor (0.02) metconazole (0.01) methabenzthiazuron (0.01) methacrifos (0.01) methamidophos (0.01) methidathion (0.01) methiocarb (sum) (0.01) methomyl (sum) (0.01) methoxychlor (0.01) methoxyfenozide (0.01) metobromuron (0.01) metolachlor (0.01) metolcarb (0.01) metosulam (0.01) metoxuron (0.01)

prothiofos (0.01) pymetrozine (0.01) pyraclostrobin (0.01) pyrazophos (0.01) pyrethrins (0.01) pyridaben (0.01) pyridalyl (0.01) pyridaphenthion (0.01) pyrifenox (0.02) quassia (0.01) quinalphos (0.01) quinmerac (0.02) Quinoclamine (0.01) quinoxyfen (0.01) quintozene (sum) (0.01) resmethrin (sum) (0.02) rimsulfuron (0.01) rotenone (0.01) simazine (0.02) spinetoram (0.01) spinosad (sum) (0.01) spirodiclofen (0.01) spiromesifen (0.01) spirotetramat (sum) (0.01) spiroxamine (0.01) sulcotrione (0.02) sum of butocarboxim and butocarboxim sul (0.01) tau-fluvalinate (0.01) tebuconazole (0.01) tebufenozide (0.01) tebuthiuron (0.01) tecnazene (0.01) teflubenzuron (0.01) tefluthrin (0.01) tepraloxydim (0.02) terbufos (0.01) Terbufos (sum not definition) (0.01)terbuthylazine (0.02) terbutryn (0.02) tetrachlorvinphos (0.01) tetraconazole (0.01) tetradifon (0.01) tetramethrin (0.01) thiacloprid (0.01) thiamethoxam (0.01) thiophanate-methyl (0.01) tolclofos-methyl (0.01) tolfenpyrad (0.01) tolylfluanid (sum) (0.01) triadimefon & triadimenol (0.01) triallate (0.02) triasulfuron (0.02) triazamate (0.01) triazophos (0.01) triclopyr (0.02) tricyclazole (0.01)

diphenylamine (0.02) disulfoton (sum) (0.01) diuron (0.01) dodine (0.02) emamectin (0.01) endosulfan (sum) (0.01) endrin (0.02) EPN (0.01) epoxiconazole (0.01) metrafenone (0.01) metribuzin (0.02) metsulfuron-methyl (0.01) mevinphos (sum) (0.01) molinate (0.01) monocrotophos (0.01) monolinuron (0.01) Monuron (0.01) myclobutanil (0.01) trifloxystrobin (0.01) triflumizole (0.01) triflumuron (0.01) trifluralin (0.01) triforine (0.01) triticonazole (0.01) vinclozolin (sum) (0.01) zoxamide (0.01)

## **Appendix D: HSE Assessment of Risk**

The sampling programme is designed to enable the regulatory authorities to check that: • specified pesticide MRLs are being respected;

- users of pesticides are complying with conditions of use specified in the authorisation;
- dietary intakes of residues are within acceptable limits.

This section details how risks from dietary intakes are assessed.

#### When assessments are carried out

A screening assessment is done for each residue and commodity combination to identify residue levels that would lead to intakes above the relevant reference doses. Further information on this screening approach is available on request from HSE. Detailed assessments are then produced for every case where the actual residue level found could lead to an intake by any group above the reference dose

### **Assessing Dietary intakes**

Assessing the acceptability of dietary intakes is complicated. Consumer risk assessments are carried out for both short-term (peak) and long-term intakes. These assessments use information on food consumption collected in UK dietary surveys in conjunction with the residue levels we find. Occasionally, additional pesticide specific information on the losses of residues that occur during preparation and/or cooking of food is also used.

#### How the assessment is carried out

Short-term intakes (also called NESTIs) are calculated using consumption data for high-level consumers, based on single-day consumption values and the highest residue found in a food commodity. The residue found is multiplied by a variability factor to take account of the fact that residues may vary between individual items that make up the sample analysed. The estimated intake is compared to the Acute Reference Dose (ARfD). This is done for ten consumer groups; adults, infants, toddlers, 4-6 year olds, 7-10 year olds, 11-14 year olds, 15-18 year olds, vegetarians, elderly living in residential homes and elderly living in their own homes.

Long-term intakes (NEDI) are also calculated for high-level consumers, but in this case the consumption data are high-level long-term values rather than peak single-day events, and similarly the residue values used reflect long-term average levels rather than occasional high values. Again these estimates are made for the ten consumer groups. In this case the estimated intake is compared to the Acceptable Daily Intake (ADI). More information on intake assessments is available on <u>HSE's</u> website.

The reference doses (ADI, ARfD) are set by the Expert Committee on Pesticides (ECP), or agreed within the EC (an increasing proportion of UK pesticide authorisations are now carried out in accordance with harmonised EU processes). However, where neither the UK nor the EC has set a reference dose, levels set by regulatory authorities in other countries may be used. For a small number of pesticides the reference doses used have been determined by HSE. These have not been independently peer-reviewed and should therefore be regarded as provisional. Reference dose values are also available on the EU website.

Although MRLs are not safety levels, an MRL would not be established if the residue concentrations measured in the supervised trials used to support the MRL would give rise to health concerns. In most cases residues present at the MRL result in intakes below the ARfD and the ADI. So even if the MRL is exceeded this does not always lead to an intake above the ARfD or ADI.

In addition, an estimated intake that exceeds the ADI or ARfD does not automatically result in concerns for consumer health, because a protective approach is used in setting the ADI and ARfD. In the unusual circumstance of an intake exceeding the ADI or ARfD, an evaluation of the toxicological data is made, and details of this assessment would be presented.

Most consumer intakes are for short-term exposure rather than chronic exposure. This is because in most cases the monitoring data show the majority of samples to contain residues below the reporting limit and so chronic exposure would not present a concern. Long-term risk assessments have been

carried out on a case-by-case basis, but are not routinely reported. Long-term exposure assessments done using median residue levels, rather than using the highest residues found. Therefore, long-term risk assessments would only need to be carried out where PRiF data indicated a high proportion of samples contained residues above the MRL (this would result in a higher median residue level than that previously assessed when setting the MRL), or where there is no MRL and acute toxicology is not considered relevant for the particular pesticide concerned

Where intakes exceed a reference dose, it is necessary for the underlying toxicological studies (animal studies) to be considered to enable the significance of such an exceedance to be understood. Toxicological studies are conducted using different doses to determine the nature of any ill health effects as well as the levels at which such effects can be expected to occur.

Toxicological studies are conducted using test animals to identify the highest experimental dose that causes no detectable adverse effects (the NOAEL). Where there is more than one relevant toxicological study, the lowest appropriate NOAEL for the most sensitive adverse effect is typically used. There is some uncertainty in extrapolating between animals and people and it is therefore important to use a 'safety factor' to account for sources of variation. This safety factor is incorporated (by dividing the NOAEL by the safety factor) in deriving a reference dose, either an ADI or an ARfD, to which consumer intakes are compared. A safety factor therefore extrapolates from the animal testing to the general population. Factors in the order of x100 are commonly used, x 10 for animal to man, and x10 for within human population differences in sensitivity. However, toxicologists may propose different values (e.g. from 5 to 1000) based scientific reasoning in accordance with study designs and the quality of the data that has been generated from the studies.

In order to ensure exposures to pesticides do not pose unacceptable risk to humans a wide range of investigations are performed. Most of these are performed in experimental animals because the only end-points that can be examined in human volunteers are those involving observation or blood and urine sampling. Human volunteer studies involving pesticides are not generated in current regulatory work. There is debate at the international level as to whether human studies that have been generated should be used for risk assessment purposes. In the EU, the policy is not to use these data in assessments; the JMPR chose to apply judgement in the appropriate use of these data if available. PRiF risk assessments will usually refer to test animal species, such as dog, rat, and rabbit. All toxicological work is undertaken based on principles of minimising animal distress. Where scientifically valid human data are available PRiF risk assessments will refer to these as they reduce the uncertainty in the assessment. Therefore, human data is only referred to in more limited circumstances.

Acute (short term) toxicology is not a concern for all pesticides, as some are not acutely toxic. In terms of the pesticides that have been found in fruit and vegetables through the surveillance programme an acute risk assessment would not be necessary on the following: tecnazene, maleic hydrazide, bitertanol, buprofezin, dicloran, diphenylamine, ethoxyquin, furalaxyl, imazalil, iprodione, kresoxim-methyl, myclobutanil, permethrin, pendimethalin, propargite, propyzamide, quintozene, thiabendazole and tolclofos-methyl.

#### **Dithiocarbamate residues**

Dithiocarbamate residues are determined as carbon disulphide which is a common product from different dithiocarbamate pesticides; for the risk assessment a precautionary approach is taken: the worse case dithiocarbamate residue is calculated by assuming the residue is derived from ziram ((a molecular weight conversion is applied to estimate the level of residue based on ziram) and this is compared to the ARfD for ziram. Where it can be confirmed that a specific dithiocarbamate was applied the equivalent residue of the specific active substance is estimated and the intake compared to the appropriate reference dose. We only present a detailed risk assessment when either the worst case assessment of intake (based on ziram) leads to an exceedance of the ziram ARfD and it has not been possible to further identify the dithiocarbamate source of the residues, or, when further refined assessments based on a specific knowledge of the dithiocarbamate pesticide applied in practice still lead to an exceedance of the ARfD for the known dithiocarbamate pesticide.

#### **Probabilistic Modelling**

The standard calculations of consumer exposure use realistic consumption data and residue levels. However, they tend to overestimate intakes in most circumstances. This is due to the assumptions used; fruit and vegetables would contain high levels of residue in an individual unit and that these would be consumed by high-level consumers. They do not take into account the possible range of residue levels and consumption distributions that may occur in reality. These possible combinations of residues and consumption levels can be taken into account using modelling/simulation techniques to produce probability distributions of residue intake levels to indicate the range of consumer intakes, presented as a probabilistic assessment of consumer exposure. These techniques are not yet routinely used to estimate dietary intakes of pesticide residues in the EC.

#### **Multiple residues**

The risk assessment process is not standing still. We are aware that some consumers are concerned by the 'cocktail effect'- the possible implications of residues of more than one chemical occurring in, say, a single portion of fruit or vegetables or the interaction between mixtures of pesticides and veterinary medicines at residue levels.

Where more than one pesticide residue is found in a sample, we produce a separate table which identifies each sample and what was found (see Appendix C). If more than one organophosphate/carbamate is found we will undertake an additional risk assessment. If the combination of pesticides found is either unusual or gives cause for concern then this will be detailed in the report.

The Food Standards Agency (FSA) asked the Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment to assess these concerns. Their Report Risk Assessment of Mixtures of Pesticides and Veterinary Medicines was published in 2002. The Committee concluded that the probability of any health hazard from exposures to mixtures is likely to be small. Nonetheless, it identified areas of uncertainty in the risk assessment process and made recommendations for further work. These fell under the broad headings of regulatory, surveillance, research and public information issues. An action plan to take forward the recommendations has been published on the FSA website. A number of research projects have been commissioned by the FSA to help progress. Details can be <u>found here</u>.

Scientific methodologies have yet to be developed to deal with mixtures from groups of pesticides identified by the Committee. However, the Expert Committee on Pesticides (ECP) has developed an approach for the anticholinesterase compounds. They have also recommended an approach for assessing compounds that might have combined toxicity. This includes a consideration of the proportion of the respective reference doses taken up by the predicted exposures to each active substance. If this is only a small proportion (e.g. <50% if there are two components; <33% for 3 etc) then assuming simple additivity the risks would still be acceptable. However if exposures to each active substance represent a high proportion of the respective reference doses and the total exceeds 100% a more detailed consideration is needed. Details can be <u>found here</u>.

We are keen to ensure our reports reflect consumer concerns. We therefore now regularly assess findings showing multiple residues of organophosphate and carbamate pesticides. Combined assessment is a new development in risk assessment, which is being taken forward at international level. The European Food Safety Authority (EFSA) held a <u>colloquium in 2014</u>.

Further advances in risk assessment methodology will be taken into account in developing the approach to multiple risk assessments in the future.

## Assessment of Risk to Human Health

#### Short-term intake estimates

Screening assessments have been done for all acutely toxic and potentially acutely toxic pesticides to check that predicted intakes are within the ARfD (or ADI, as appropriate, where an ARfD is not available). An acute exposure assessment is not done for pesticides which are not acutely toxic where it has been established that an ARfD is not required. Toxicological endpoints can be found in the DG Sanco EU Pesticides database which is available at <a href="http://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/public/?event=homepage&language=EN">http://ec.europa.eu/food/plant/pesticides/eu-pesticides/

The screening assessment uses the internationally agreed approach to short-term (acute) consumer exposure assessment with UK food consumption data as detailed within the UK NESTI model which is available on the HSE website at <a href="http://www.hse.gov.uk/pesticides/topics/pesticide-approvals/pesticides-registration/data-requirements-handbook/consumer-exposure.htm">http://www.hse.gov.uk/pesticides/topics/pesticide-approvals/pesticides-registration/data-requirements-handbook/consumer-exposure.htm</a>.

For these spring term 2017 assessments, the following approaches have been taken to refine the NESTI according to case-by-case issues and to ensure that appropriate consumption values are used for less frequently consumed commodities where available food consumption data may be limited:

- For apple/thiabendazole a variability factor of 1.6 was used based on specific residues variability data available, generated using thiabendazole in apples (EFSA, 2016).
- For pear/imazalil a variability factor of 1.5 was used based on specific residues variability data available, generated using imazalil in apples (EU MRL, 2007).
- Consumption data on dried fruit, including raisins, currants and sultanas, were used for raisins.

### Soft citrus risk assessment

Crop	Pesticide	Highest residue (mg/kg)	Intake (mg/kg bw/day)			ARfD (mg/kg bw/day)	Source
			4-6 year old child	7-10 year old child	Critical group <sup>†</sup>		
Soft citrus	Imazalil	3.5	0.13	0.10	0.19 (toddler) 0.13(4-6 year old) 0.063 (11-14 year old)	0.05 pregnant & nursing females 0.1 others	EFSA 2007

#### Citrus flesh after peeling

The EU MRL risk assessment assumes that soft citrus are peeled before consumption. After peeling only 5% of the residue remains (JMPR, 1977), the highest intake is below 0.05 mg/kg bw/d, and there are no exceedances of either ARfD.

However, assuming that consumers eat all the peel, intakes for toddlers and children of school age (4-6 year old) exceed the acute reference dose of 0.1 mg/kg bw/day (for the general population excluding pregnant and nursing women) and intakes for pregnant and nursing women (based on consumer groups aged over 11 years) in the 11-14 year old consumer group exceed the specific acute reference dose of 0.05 mg/kg bw/day (for pregnant and nursing women).

#### Whole citrus, including all the peel

### Pregnant and nursing women

If pregnant and nursing mothers ate large portions of soft citrus containing imazalil at 3.5 mg/kg, their intake of imazalil could be 126% of the Acute Reference Dose of 0.05 mg/kg bw/d (based on consumer group of 11 -14 year olds). This intake is 80 times lower than a dose which caused no observed adverse effect in a rabbit developmental study. The European Food Safety Authority used this study as the basis of the ARfD.

Toxicologists usually apply a factor of 100 to this dose to take into account the uncertainties caused by using animal data and possible differences in susceptibility between people. We consider the reduced factor of 80 still enough to make an effect on health unlikely.

### General population

If toddlers ate large portions of soft citrus containing imazalil at 3.5 mg/kg, their intake of imazalil could be 195% of the Acute Reference Dose of 0.1 mg/kg bw/d for the general population. This intake is 53 times lower than a dose which caused no observed adverse effect in a rabbit developmental study. The European Food Safety Authority used this study as the basis of the ARfD.

Toxicologists usually apply a factor of 100 to this dose to take into account uncertainties caused by using animal data and possible differences in susceptibility between people. Also it is noted that an ARfD based on maternal toxicity in a developmental study with repeated dosing (13 days) is likely to be very protective for the general population. Based on this assessment we consider the reduced factor of 53 still enough to make an effect on health unlikely.

<sup>†</sup>Highest intake of all ten consumer groups, or intakes for all consumer groups that exceed the ARfD

## Acute risk assessments for samples containing more than one organophosphorus/carbamate or captan/folpet or triazoles or carbendazim/thiophanate methyl following screening assessment.

Some of the samples contained residues of more than one pesticide. Whenever toxicologists expect these to add to each other's affect, (have the same toxicological mode of action), HSE carries out a risk assessment of the combined results. Where the sum of the individual intakes, expressed as a percentage of the respective ARfDs is above 100% then the risk assessment is published in full.

The screening assessment of the samples, which contained more than one pesticide from the above groups, did not indicate any exceedances of the ARfD.

## **Appendix E: Supplier Details**

The Government has decided that brand name information should be published as part of the Government chemical surveillance programme for food. Brand names have been published for most pesticide residue surveys since 1998. This policy was reviewed in 2000/1, when Ministers agreed to its continuation. This policy is employed for the SF&VS monitoring.

The tables give the name and address of the distribution depots from which the produce was collected. The suppliers/brand name is not always available. Similar produce from the same supplier may have been available from other depots. The choice of supplier for each area lies with the Department of Health and not the distributor.

This Appendix lists information for each sample analysed with details of the levels of residues detected.

## Apples: residues found between January – April 2017

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
					West Marsh Road, Pinchbeck,		boscalid 0.02 (MRL = 2)
5553/2017	20/01/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11 3UW	None stated	captan (sum) 0.6 (MRL = 10)
					West Marsh Road, Pinchbeck,		boscalid 0.01 (MRL = 2)
5554/2017	01/02/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11 3UW	None stated	captan (sum) 0.5 (MRL = 10)
					West Marsh Road, Pinchbeck,		boscalid 0.02 (MRL = 2)
5557/2017	14/02/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11 3UW	None stated	captan (sum) 0.7 (MRL = 10)
					West Marsh Boad, Binshbook		captan (sum) 0.6 (MRL = 10)
5566/2017	05/04/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11	None stated	flonicamid (sum) 0.02 (MRL = 0.3)
					3077		fludioxonil 0.1 (MRL = 5)
					West Marsh Boad, Binshbook		captan (sum) 0.4 (MRL = 10)
5567/2017	05/04/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11	None stated	flonicamid (sum) 0.01 (MRL = 0.3)
					3011		fludioxonil 0.09 (MRL = 5)
					West Marsh Poad Dinchbeck		captan (sum) 0.7 (MRL = 10)
5568/2017	05/04/2017	Apples	Belgium	Greencell UK Ltd	Spalding, Lincolnshire PE11	None stated	flonicamid (sum) 0.02 (MRL = 0.3)
					3000		fludioxonil 0.1 (MRL = 5)
					West Marsh Boad, Binshbook		captan (sum) 0.6 (MRL = 10)
5560/2017	05/04/2017	Applos	Polaium	Groopcoll LIK Ltd	Spalding Lincolnshiro DE11	Nono stated	flonicamid (sum) 0.01 (MRL =
5509/2017	05/04/2017	Apples	Deigiuiti	Greencen OK Llu		None stated	0.3)
					3611		fludioxonil 0.1 (MRL = 5)
5501/2017	10/01/2017	Annles	Poland	Minor Weir &	Altitude, 206, Deykin Avenue,	None stated	acetamiprid 0.03 (MRL = 0.8)
5551/2017	19/01/2011	Apples	1 olanu	Willis Ltd	Birmingham B6 7BH	None stated	captan (sum) 0.2 (MRL = 10)
				Minor Mair 8	Altitude 206 Devikin Avenue		acetamiprid 0.02 (MRL = 0.8)
5595/2017	24/01/2017	Apples	Poland		Birmingham B6 7BH	None stated	captan (sum) 0.3 (MRL = 10)
					Birningham bo 7 bi i		flutriafol 0.01 (MRL = 0.4)
		<b>.</b> .		Minor Weir &	Altitude, 206, Devkin Avenue,		boscalid 0.02 (MRL = 2)
5597/2017	08/02/2017	Apples	Belgium	Willis Ltd	Birmingham B6 7BH	None stated	captan (sum) 0.5 (MRL = 10)
5509/2017	16/01/2017	Apples	Deland	Minor Weir &	Altitude, 206, Deykin Avenue,	None stated	acetamiprid 0.01 (MRL = 0.8)
5596/2017	10/01/2017	Apples	FUIdHU	Willis Ltd	Birmingham B6 7BH	NUTE SLALEU	captan (sum) 0.1 (MRL = 10)
5600/2017	01/03/2017	Apples	Poland	Minor Weir & Willis Ltd	Altitude, 206, Deykin Avenue, Birmingham B6 7BH	None stated	captan (sum) 0.04 (MRL = 10)

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5602/2017	15/03/2017	Apples	Spain	Minor Weir & Willis Ltd	Altitude 206 Deykin Avenue, Witton, Birmingham, West Midlands B6 7BH	None stated	boscalid 0.03 (MRL = 2) pirimicarb (sum) 0.01 (MRL = 0.5) pyraclostrobin 0.01 (MRL = 0.5) thiabendazole 1.3 (MRL = 5)
5604/2017	29/03/2017	Apples	Poland	Minor Weir & Willis Ltd	Altitude 206 Deykin Avenue, Witton, Birmingham, West Midlands B6 7BH	None stated	acetamiprid 0.01 (MRL = 0.8) boscalid 0.08 (MRL = 2) captan (sum) 0.3 (MRL = 10) flonicamid (sum) 0.2 (MRL = 0.3) methoxyfenozide 0.02 (MRL = 2) pyraclostrobin 0.02 (MRL = 0.5)

## Bananas: residues found between January – March 2017

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5627/2017	14/02/2017	Cavendish	Costa Rica	G W Price I td	13 High Street, Eckington,	Del Monte	imazalil 0.1 (MRL = 2)
302172017	14/02/2017	Bananas		O WI HEE Eld	Sheffield S21 4DH	Der Monte	thiabendazole 0.08 (MRL = 5)
		<b>.</b>					azoxystrobin 0.05 (MRL = 2)
5629/2017	06/03/2017	Cavendish	Costa Rica	G W Price Ltd	13 High Street, Eckington,	Del Monte	mazalil 0.04 (MRL = 2)
		Bananas			Sheffield S21 4DH		myclobutanii 0.07 (MRL = 2)
		Covondiah			12 High Street Enkington		$\frac{1}{2} \frac{1}{2} \frac{1}$
5644/2017	14/03/2017	Bananas	Costa Rica	G W Price Ltd	Sheffield S21 4DH	Del Monte	a2000000000000000000000000000000000000
		-	Dominican	JN Fox & Sons	Unit A The Ridgeway Iver		None were detected above the
5581/2017	09/01/2017	Bananas	Republic	UK Ltd	Buckinghamshire SL0 9HX	None stated	set RL
			Ivory Coast	IN Eax & Sons	Lipit A The Bidgeway liver		azoxystrobin 0.2 (MRL = 2)
5582/2017	01/02/2017	Bananas	(Cote d'Ivoire)	UK Ltd	Buckinghamshire SL0 9HX	None stated	imazalil 0.4 (MRL = 2)
		Cavendish	Ivory Coast	IN Fox & Sons	Linit A The Ridgeway liver		azoxystrobin 0.04 (MRL = 2)
5583/2017	24/03/2017	Bananas	(Cote d'Ivoire)	UK Ltd	Buckinghamshire SL0 9HX	None stated	imazalil 0.1 (MRL = 2)
5611/2017	12/01/2017	Bananas	Dominican Republic	SH Pratts & Co	Laporte Cavendish Bananas Way, Luton, Bedfordshire LU4 8EN	None stated	None were detected above the set RL
5612/2017	26/01/2017	Bananas	Dominican Republic	SH Pratts & Co	Laporte Cavendish Bananas Way, Luton, Bedfordshire LU4 8EN	JNF	None were detected above the set RL
							bifenthrin 0.03 (MRL = 0.1)
		Cavendish			Laporte Cavendish Bananas		buprofezin 0.08 (MRL = 0.5)
5613/2017	28/02/2017	Bananas	Costa Rica	SH Pratts & Co	Way, Luton, Bedfordshire LU4	None stated	fenpropimorph 0.01 (MRL = 2)
					8EN		imazalil 0.1 (MRL = 2)
					Lanarta Cavandish Bananaa		$\frac{\text{thabendazole 0.1 (MRL = 5)}}{\text{imazalil 0.1 (MRL = 2)}}$
5619/2017	23/03/2017	Cavendish Bananas	Colombia	SH Pratts & Co	Way, Luton, Bedfordshire LU4 8EN	None stated	thiabendazole 0.04 (MRL = 5)
					Stanstead Pinening Centre		fenpropimorph 0.01 (MRL = 2)
5541/2017	16/01/2017	Bananas	Costa Rica	Winfresh	Dunmow Road Little Canfield	Del Monte	imazalil 0.2 (MRI = 2)
001112011	10/01/2011	Bananao			Little Canfield, Essex CM6 1TH	Bormonto	thisbendazole 0.1 (MRL = 5)
							$\frac{1}{1} \frac{1}{1} \frac{1}$
	00/04/00/7	5	0 1 5		Stanstead Ripening Centre,		$\frac{1}{2} \frac{1}{2} \frac{1}$
5542/2017 30/01/201	30/01/2017	Bananas Costa Rica	winfresh	Dunmow Road, Little Canfield,	ild, Del Monte	buprotezin 0.01 (MRL = 0.5)	
					Little Carlield, ESSEX CIVID 11H		myclobutanil 0.02 (MRL = 2)

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5543/2017	00/00/0047	Devenue			Stanstead Ripening Centre, azox		azoxystrobin 0.4 (MRL = 2) bifenthrin 0.01 (MRL = 0.1)
	20/03/2017	Bananas	Costa Rica	vvintresn	Essex CM6 1TH	Del Monte	dithiocarbamates 0.05 (MRL = 2)
							myclobutanii 0.3 (MRL = 2)

## Carrots: residues found Between January – March 2017

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5501/2017	11/01/2017	Nairobi Carrots	UK	Alan Bartlett & Sons	Great Acre Fen, Chatteris, Cambridgeshire PE16 6EG	None stated	tebuconazole 0.02 (MRL = 0.4)
				Alon Partlatt 8	Great Acro Eon, Chattoria		prosulfocarb 0.02 (MRL = 1)
5502/2017	23/01/2017	Nairobi Carrots	UK	Sons	Combridgoshiro DE16 6EC	None stated	tebuconazole 0.01 (MRL = 0.4)
				3013	Cambridgeshille FET0 0EG		tefluthrin 0.01 (MRL = 0.05)
5503/2017	01/02/2017	Carrots	UK	Alan Bartlett & Sons	Great Acre Fen, Chatteris, Cambridgeshire PE16 6EG	None stated	None were detected above the set RL
5504/2017	16/02/2017	Nairahi Carrote		Alan Bartlett &	Great Acre Fen, Chatteris,	Nono stated	fenpropimorph 0.01 (MRL = 0.05*)
5504/2017	10/02/2017	Nailobi Carlois	UK	Sons	Cambridgeshire PE16 6EG	None stated	tebuconazole 0.01 (MRL = 0.4)
				Alan Bartlett &	Great Acre Een, Chatteris		boscalid 0.1 (MRL = 2)
5505/2017	24/02/2017	Nairobi Carrots	UK	Sons	Cambridgeshire PE16 6EG	None stated	linuron 0.02 (MRL = 0.2)
				0013	Cambridgesinie i E lo dEG		tebuconazole 0.01 (MRL = 0.4)
5506/2017	13/03/2017	Nairobi Carrote		Alan Bartlett &	Great Acre Fen, Chatteris,	None stated	boscalid 0.04 (MRL = 2)
5500/2017	13/03/2017	Nailobi Carlois	UK	Sons	Cambridgeshire PE16 6EG	None stated	tebuconazole 0.01 (MRL = 0.4)
5507/2017	23/03/2017	Nairobi Carrote		Alan Bartlett &	Great Acre Fen, Chatteris,	None stated	boscalid 0.2 (MRL = 2)
550772017	23/03/2017	Nailobi Carlois	UK	Sons	Cambridgeshire PE16 6EG	None stated	tebuconazole 0.03 (MRL = 0.4)
5511/2017	16/01/2017	Chantenay		Capespan	Maidstone Studios, Vinters Park New	None stated	boscalid 0.07 (MRL = 2)
5511/2017	10/01/2017	Carrots	UK	International Ltd	Cut Road, Maidstone ME14 5NZ	None stated	tebuconazole 0.03 (MRL = 0.4)
		Chantenav		Canesnan	Maidstone Studios Vinters Park New		azoxystrobin 0.01 (MRL = 1)
5513/2017	07/02/2017	Carrots	UK	International Ltd	Cut Road Maidstone ME1/ 5NZ	None stated	boscalid 0.2 (MRL = 2)
		Carrols					tebuconazole 0.03 (MRL = 0.4)
		Chantenav		Canesnan	Maidstone Studios, Vinters Park New		boscalid 0.1 (MRL = 2)
5518/2017	03/03/2017	Carrots	UK	International I td	Cut Road Maidstone ME14 5NZ	None stated	iprodione 0.02 (MRL = 10)
		Odriota					tebuconazole 0.05 (MRL = 0.4)
		Chantenav		Canesnan	Maidstone Studios, Vinters Park New		boscalid 0.1 (MRL = 2)
5519/2017	03/03/2017	Carrots	UK	International I td	Cut Road Maidstone ME14 5NZ	None stated	iprodione 0.02 (MRL = 10)
		Odriota					tebuconazole 0.06 (MRL = 0.4)
		Chantenav		Canesnan	Maidstone Studios Vinters Park New		boscalid 0.1 (MRL = 2)
5520/2017	03/03/2017	Carrots	UK	International Ltd	Cut Road Maidstone ME1/ 5NZ	None stated	iprodione 0.02 (MRL = 10)
		Carrots					tebuconazole 0.06 (MRL = 0.4)
							azoxystrobin 0.01 (MRL = 1)
5522/2017	14/03/2017	Chantenay	l IK	Capespan	Maidstone Studios, Vinters Park New	None stated	boscalid 0.1 (MRL = 2)
5522/2017	14/03/2017	Carrots	UK	International Ltd	Cut Road, Maidstone ME14 5NZ	None stated	isopyrazam 0.01 (MRL = 0.2)
							tebuconazole 0.04 (MRL = 0.4)
			Capesnan	Maidstone Studios Vinters Park Now		boscalid 0.05 (MRL = 2)	
5524/2017	31/03/2017	Carrots	UK	International Ltd	Cut Road Maidstone ME14 5NZ	None stated	iprodione 0.02 (MRL = 10)
				International Ltd	Cut Road, Maidstone ME14 5NZ		tebuconazole 0.05 (MRL = 0.4)

## Pears: residues found Between January – April 2017

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
							diflubenzuron 0.02 (MRL = 5)
							dithiocarbamates 0.1 (MRL = 5)
					Thames House, Thames		fludioxonil 1.7 (MRL = 5)
5531/2017	18/01/2017	Rocha Pears	Portugal	Chingford Fruit	Road, Crayford, Dartford,	None stated	fluopyram 0.06 (MRL = 0.5)
					Kent DA1 4QP		1000000000000000000000000000000000000
							1000000000000000000000000000000000000
							111111111111111111111111111111111111
					Thames House, Thames		dithiocarbamates 0.4 (MRL = 5)
							fenoxycarb 0.02 (MRL = 1)
5532/2017	32/2017 18/01/2017 Rocha	Rocha Pears	Portugal	Chingford Fruit	Road, Crayford, Dartford,	None stated	fludioxonil 0.1 (MRL = 5)
			-	-	Kent DA1 4QP		penthiopyrad 0.02 (MRL = 0.5)
							tebuconazole 0.03 (MRL = 0.3)
							thiacloprid 0.01 (MRL = 0.3)
					Thames House, Thames		dithiocarbamates 0.5 (MRL = 5)
5500/0047 00/00/00							fludioxonil 1.9 (MRL = 5)
	00/00/00/7	Dacha Dacro	Portugal	Chinaford Fruit		None stated	fluopyram 0.06 (MRL = 0.5)
0000/2017	7 06/03/2017 Rocha Pears Pe	Foltugal Chiligiold Fi	Chingiora Fruit	Kent DA1 4QP	None stated	tebuconazole 0.04 (MRL = 0.3)	
							thiacloprid 0.03 (MRL = 0.3)
							trifloxystrobin 0.01 (MRL = 0.7)
							dithiocarbamates 1.1 (MRL = 5)
							fenoxycarb 0.01 (MRL = 1)
					Thames House, Thames		fludioxonil 4.6 (MRL = 5)
5534/2017	21/03/2017	Rocha Pears	Portugal	Chingford Fruit	Road, Crayford, Dartford,	None stated	fluopyram 0.2 (MRL = 0.5)
					Kent DA1 4QP		tebuconazole 0.2 (MRL = 0.3)
							thiacloprid 0.09 (MRL = 0.3)
							trifloxystrobin 0.05 (MRL = 0.7)
							dithiocarbamates 0.6 (MRL = 5)
							fludioxonil 3.6 (MRL = 5)
5535/2017	04/04/2017	Rocha Pears	Portugal	Chingford Fruit	I hames House, I hames Road, Crayford, Dartford	None stated	fluopyram 0.2 (MRL = 0.5)
3333/2017	04/04/2017		rs Portugal (	Chingford Fruit F	Fruit Road, Crayford, Dartford, Kent DA1 4QP	None stated	tebuconazole 0.2 (MRL = 0.3)
							thiacloprid 0.09 (MRL = 0.3)
							trifloxystrobin 0.02 (MRL = 0.7)

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
							boscalid 0.03 (MRL = 1.5)
		Conference		Greencell LIK	West Marsh Road,		captan (sum) 0.2 (MRL = 10)
5551/2017	11/01/2017	Pears	Belgium		Pinchbeck, Spalding,	None stated	chlormequat 0.02 (MRL = 0.1)
		1 6013			Lincolnshire PE11 3UG		cyprodinil 0.02 (MRL = 2)
							fludioxonil 0.05 (MRL = 5)
				Greencell I IK	West Marsh Road,		boscalid 0.2 (MRL = 1.5)
5556/2017	14/02/2017	Pears	Belgium	Ltd	Pinchbeck, Spalding, Lincolnshire PE11 3UG	None stated	pyraclostrobin 0.06 (MRL = 0.5)
							boscalid 0.04 (MRL = 1.5)
				Greencell I IK	West Marsh Road,		diflubenzuron 0.02 (MRL = 5)
5558/2017	21/02/2017	Rocha Pears	Portugal	I td	Pinchbeck, Spalding,	None stated	dithiocarbamates 0.07 (MRL = 5)
				LIG	Lincolnshire PE11 3UG		fludioxonil 0.07 (MRL = 5)
							thiacloprid 0.02 (MRL = 0.3)
					West Marsh Road		captan (sum) 1.8 (MRL = 10)
5559/2017	02/03/2017	Conference	Morocco	Greencell UK	Pinchbeck Spalding	None stated	carbendazim (sum) 0.02 (MRL = 0.2)
0000/2011	02/00/2011	Pears	Moreeco	Ltd	Lincolnshire PE11 3UG	None stated	cyprodinil 0.3 (MRL = 2)
							fludioxonil 0.2 (MRL = 5)
							dithiocarbamates 0.2 (MRL = 5)
							fludioxonil 0.2 (MRL = 5)
							fluopyram 0.02 (MRL = 0.5)
				Greencell UK	West Marsh Road,		phosmet (sum) 0.02 (MRL = 0.5)
5562/2017	23/03/2017	Rocha Pears	Portugal	Ltd	Pinchbeck, Spalding,	None stated	penthiopyrad 0.01 (MRL = 0.5)
					Lincolnshire PE11 3UG		tebuconazole 0.02 (MRL = 0.3)
							triflumuron 0.02 (MRL = 0.5)
							thiacloprid 0.03 (MRL = 0.3)
							trifloxystrobin 0.01 (MRL = 0.7)
		<b>.</b>		• • • • • •	West Marsh Road.		boscalid 0.2 (MRL = $1.5$ )
5580/2017	31/01/2017	Conference	Belaium	Greencell UK	Pinchbeck, Spalding.	None stated	<u>captan (sum) 0.2 (MRL = 10)</u>
		Pears	- 0 -	Ltd	Lincolnshire PE11 3UG		$\underline{\text{chlormequat } 0.03 \text{ (MRL = } 0.1)}$
							pyraclostrobin 0.08 (MRL = 0.5)
							$\frac{\text{captan (sum) 0.4 (MRL = 10)}}{\text{(MRL = 10)}}$
		_		Minor Weir &	Altitude 206 Devkin Avenue		$\frac{\text{chlormequat } 0.03 \text{ (MRL = } 0.1)}{\text{chlormequat } 0.03 \text{ (MRL = } 0.1)}$
5592/2017	19/01/2017	Pears	Belgium	Willis Ltd	Birmingham B6 7BH	None stated	chiorantraniliprole 0.03 (MRL = 0.5)
					g		cyprodinil 0.2 (MRL = 2)
							fludioxonil 0.1 (MRL = 5)
				Minor Weir 8	Altitude 206 Devicin Avenue		captan (sum) 0.03 (MRL = 10)
5596/2017 01	01/02/2017	)17 Pears	Belgium N	Minor Weir & A Willis Ltd F	Altitude, 206, Deykin Avenue, Birmingham B6 7BH	ue, None stated	chlormequat 0.04 (MRL = 0.1)
							difenoconazole 0.01 (MRL = 0.8)
-							

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
							boscalid 0.3 (MRL = 1.5)
							captan (sum) 1.4 (MRL = 10)
				Minor Woir 8	Altitude, 206, Deykin Avenue, Birmingham B6 7BH		fludioxonil 0.2 (MRL = 5)
5599/2017 01/03/2	01/03/2017	Pears	Portugal	Willie I td		None stated	imazalil 1.6 (MRL = 2)
					Dimingham bo 7 bh		pyraclostrobin 0.03 (MRL = 0.5)
							thiabendazole 0.1 (MRL = 5)
							thiacloprid 0.1 (MRL = 0.3)
							boscalid 0.03 (MRL = 1.5)
5601/2017 08/0				Minor Weir & Willis Ltd	Altitude, 206, Deykin Avenue, Birmingham B6 7BH		captan (sum) 0.3 (MRL = 10)
	08/03/2017	Pears	Belaium			None stated	chlormequat 0.09 (MRL = 0.1)
	00/00/2011		Deigium				cyprodinil 0.6 (MRL = 2)
							fludioxonil 0.3 (MRL = 5)
							pyrimethanil 0.9 (MRL = 15)
							boscalid 0.05 (MRL = 1.5)
							captan (sum) 0.02 (MRL = 10)
							chlormequat 0.03 (MRL = 0.1)
		_		Minor Weir &	Altitude 206 Devkin Avenue		cyprodinil 0.2 (MRL = 2)
5603/2017	22/03/2017	Pears	Belgium	Willis Ltd	Birmingham B6 7BH	None stated	difenoconazole 0.02 (MRL = 0.8)
					g		dithiocarbamates 0.06 (MRL = 5)
							fludioxonil 0.1 (MRL = 5)
							pyraclostrobin 0.01 (MRL = 0.5)
							pyrimethanii 0.07 (MRL = 15)

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)	
							boscalid 0.07 (MRL = 25)	
							cyprodinil 0.2 (MRL = 15)	
					Brotto Transport I to		fludioxonil 0.03 (MRL = 25)	
5705/2017	05/04/2017	Raisins &	Turkov	Eruity Dacks	Guyhirn, Wisbech, Cambridgeshire PE13 44G	None stated	indoxacarb 0.03 (MRL = 10)	
5705/2017 05/04/2017	03/04/2017	Sultanas	тиксу	Truity Facks		None stated	iprodione 0.1 (MRL = 100)	
							methoxyfenozide 0.07 (MRL = 5)	
							pyrimethanil 0.2 (MRL = 25)	
					Bretts Transport Ltd.		tebufenpyrad 0.02 (MRL = 2.5)	
								boscalid 0.06 (MRL = 25)
					Bretts Transport Ltd. Guyhirn, Wisbech, Cambridgeshire PE13 4AG		cyprodinil 0.1 (MRL = 15)	
		Raisins & Sultanas					fludioxonil 0.01 (MRL = 25)	
							fluopyram 0.01 (MRL = 7.5)	
5706/2017	05/04/2017		Turkey	Fruity Packs		None stated	indoxacarb 0.01 (MRL = 10)	
		Gallando					iprodione 0.08 (MRL = 100)	
							methoxyfenozide 0.07 (MRL = 5)	
							pyrimethanil 0.2 (MRL = 25)	
							tebuconazole 0.03 (MRL = 2.5)	
							boscalid 0.07 (MRL = 25)	
							cyprodinil 0.2 (MRL = 15)	
				Minor Weir &	Altitude 206 Devkin Avenue		indoxacarb 0.01 (MRL = 10)	
5593/2017	19/01/2017	Raisins	Spain	Willis Ltd	Birmingham B6 7BH	None stated	iprodione 0.1 (MRL = $100$ )	
							lambda-cyhalothrin 0.05 (MRL = 1)	
							methoxyfenozide 0.06 (MRL = 5)	
							pyrimethanil 0.2 (MRL = 25)	
							boscalid 0.06 (MRL = 25)	
							cyprodinil 0.1 (MRL = 15)	
5594/2017	24/01/2017	Raisins	Spain	Minor Weir &	Altitude, 206, Deykin Avenue,	None stated	iprodione 0.1 (MRL = 100)	
000 1120 11	2 //0 //2011	UT7 Raisins S	Spain	Willis Ltd	Birmingham B6 7BH	None stated	lambda-cyhalothrin 0.05 (MRL = 1)	
							methoxyfenozide 0.05 (MRL = 5)	
								pyrimethanil 0.1 (MRL = 25)

## Raisins: residues found between January – April 2017

## Soft Citrus: residues found during January – March 2017

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5512/2017	18/01/2017	Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	imazalil 0.2 (MRL = 5)
	07/02/2017	Hernandina Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	chlorpyrifos 0.02 (MRL = 1.5)
							imazalil 0.9 (MRL = 5)
5514/2017							propiconazole 0.07 (MRL = 5)
							pyriproxifen 0.02 (MRL = 0.6)
							thiabendazole 0.2 (MRL = 5)
							tebufenpyrad 0.03 (MRL = 0.6)
	01/03/2017	Mor Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	dithiocarbamates 0.08 (MRL = 5)
5515/2017							imazalil 1.1 (MRL = 5)
5515/2017							propiconazole 0.09 (MRL = 5)
							pyrimethanil 0.2 (MRL = 8)
	01/03/2017	Nadorcott Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	imidacloprid 0.02 (MRL = 1)
5516/2017							imazalil 2.7 (MRL = 5)
5510/2017							propiconazole 0.02 (MRL = 5)
							pyrimethanil 1.5 (MRL = 8)
5517/2017	01/03/2017	Mor Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	dithiocarbamates 0.09 (MRL = 5)
							imazalil 1.2 (MRL = 5)
							propiconazole 0.1 (MRL = 5)
							pyrimethanil 0.2 (MRL = 8)
	07/03/2017	Murcott Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	imazalil 3.5 (MRL = 5)
5521/2017							propiconazole 0.09 (MRL = 5)
							pyrimethanil 0.1 (MRL = 8)
5523/2017	16/03/2017	Murcott Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	chlorpyrifos-methyl 0.02 (MRL = 1)
							fenpyroximate 0.04 (MRL = 0.5)
5525/2017	30/03/2017	Mor Clementines	Spain	Capespan International Ltd	Maidstone Studios, Vinters Park New Cut Road, Maidstone ME14 5NZ	None stated	dithiocarbamates 0.3 (MRL = 5)
							imazalil 2.1 (MRL = 5)
							propiconazole 0.2 (MRL = 5)
							pyrimethanil 0.3 (MRL = 8)
5552/2017	11/01/2017	Clementines	Morocco	Greencell UK Ltd	West Marsh Road, Pinchbeck, Spalding, Lincolnshire PE11 3UG	None stated	2,4-D (sum) 0.1 (MRL = 1)
							fludioxonil 2.2 (MRL = 10)
							imazalil 0.7 (MRL = 5)
							propiconazole 3.5 (MRL = 5)
							thiabendazole 0.8 (MRL = 5)

Sample ID	Date of Sampling	Description	Country of Origin	Distributor	Address	Brand Name	Pesticide residues found in mg/kg (MRL)
5555/2017	01/02/2017	Clementines	Morocco	Greencell UK Ltd	West Marsh Road, Pinchbeck, Spalding, Lincolnshire PE11 3UG	None stated	_2,4-D (sum) 0.06 (MRL = 1)
							imazalil 2.1 (MRL = 5)
							propiconazole 0.04 (MRL = 5)
							pyrimethanil 1.3 (MRL = 8)
							thiabendazole 1.4 (MRL = 5)
5560/2017	02/03/2017	Nadorcott Clementines	Belgium	Greencell UK Ltd	West Marsh Road, Pinchbeck, Spalding, Lincolnshire PE11 3UG	None stated	chlorpyrifos 0.04 (MRL = 1.5)
							flonicamid (sum) 0.01 (MRL = 0.15)
							imazalil 0.5 (MRL = 5)
							lambda-cyhalothrin 0.04 (MRL = 0.2)
							malathion (sum) 0.02 (MRL = 2)
							propiconazole 0.8 (MRL = 5)
							pyrimethanil 0.4 (MRL = 8)
							thiabendazole 0.03 (MRL = 5)
		Nadorcott		Greencell LIK	West Marsh Road,	None stated	dithiocarbamates 0.08 (MRL = 5)
5561/2017	09/03/2017	Mandarins	Spain	Ltd	Pinchbeck, Spalding, Lincolnshire PE11 3UG		imazalil 0.6 (MRL = 5)
5563/2017	23/03/2017	Nadorcott Clementines	Spain	Greencell UK Ltd	West Marsh Road,	None stated	imazalil 0.4 (MRL = 5)
					Pinchbeck, Spaiding, Lincolnshire PE11 3UG		
5626/2017	18/01/2017	Clementines	Morocco	Greencell UK Ltd	West Marsh Road, Pinchbeck, Spalding, Lincolnshire PE11 3UG	None stated	2,4-D (sum) 0.1 (MRL = 1)
							fludioxonil 2 (MRL = 10)
							imazalil 0.7 (MRL = 5)
							propiconazole 2.9 (MRL = 5)
							thiabendazole 0.7 (MRL = 5)

## **Contact Details**

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About the SF&VS: Visit the Scheme's website at:

www.nhs.uk/Livewell/5ADAY/Pages/Schoolscheme.aspx

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About PRiF: Visit PRiF's website at:

https://www.gov.uk/government/collections/pesticide-residues-in-food-resultsof-monitoring-programme

Or email:

prif@hse.gov.uk