

Proposals for 2009 Monitoring Plan for Pesticide Residues in Food and Drink

Supporting Information: Detailed Justification

About this paper

Detailed information is provided for each proposed commodity as follows:

Monitoring History

This section outlines the number of times in the last 6 years the PRC have monitored the commodity and when it was last tested. It has been included to give members information on frequency of testing with a view to deciding whether testing in 2008 is necessary, or whether it can be deferred until another year.

Dietary Importance

✓ means yes

The data used for this section is from consumption data tables used by PSD to calculate intakes for risk assessment purposes. The data was provided by FSA from National Diet and Nutrition Surveys is for 97.5th percentile consumer. <http://www.food.gov.uk/science/dietarysurveys/ndnsdocuments/> "Yes" is included if it is in the Top 10 for that food group (e.g. fruit) as well as if it is Top 10 for total diet. Data for weight of food consumed is used, not number of individuals surveyed who consumed the food.

Incidence of residues

This section summarises information from previous PRC monitoring, EU RASFFs, industry data and CSL RAPPORT database.

Proposed Survey

This a brief summary of proposed analytes. Further details are in the "Outline of analytical priorities".

Any additional information about the commodity, e.g. popularity, trends,

Priority rating

Definitions of "low", "medium" and "high" are provided in the main paper.

Survey types

The commodities have been split into 3 broad survey types:

- EU surveys
- Staples (milk and bread)
- Rolling programme

Butter



Monitoring History

Last tested 2005 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Animal product suite.

Other supporting information

Survey type



EU

Priority rating



Egg



Monitoring History

Last tested 2005 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Animal product suite.

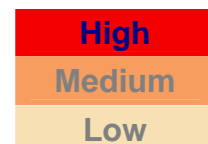
Other supporting information Liquid or dried eggs only. May link up with service sector and catering trade.

Survey type



EU

Priority rating



Ham



Monitoring History

Last tested 2006 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Animal product suite.

Other supporting information EU specifies smoked or air-dried ham, the previous survey was of cooked ham and cured pork meats.

Survey type



EU

Priority rating



Wheat



Monitoring History

Last tested 2006 no. of times last 6 years 2

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance ✓ 2006: glyphosate in wheat from the UK

RASSFs ✓ 1 RASSF in 2004

Proposed Survey

Pesticides to be sought Cereal suite + glyphosate, chlormequat

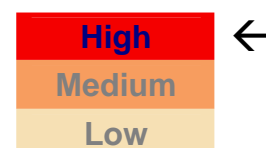
Other supporting information

Survey type



EU

Priority rating



Aubergine



Monitoring History

Last tested 2007 no. of times last 6 years 3

Dietary importance

SFVS

Top 10 infants

Top 10 toddlers

Top 10 children

Top 10 adults

Incidence of residues

MRL exceedance

✓ 2007: imidacloprid in aubergines from the Netherlands (2)
2006: imidacloprid in aubergines from the Netherlands and Spain

RASSFs

✓ 2007: methamidophos in aubergines from Suriname, methiocarb in aubergines from the Dominican Republic and Germany, and oxamyl in aubergines from Spain and Netherlands.
2006: omethoate in aubergines from Thailand (2)

Proposed Survey

Pesticides to be sought 240 list

Other supporting information

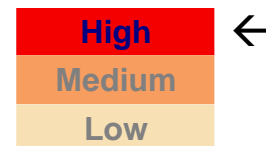
Aubergine was selected as a rapid response survey in 2007 as a result of residues found

Survey type



EU

Priority rating



Banana



Monitoring History

Last tested 2006 no. of times last 6 years 1

Dietary importance

SFVS



Top 10 infants



Top 10 toddlers



Top 10 children

Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years

RASSFs None in the last 6 years

Proposed Survey

Pesticides to be sought 240 list

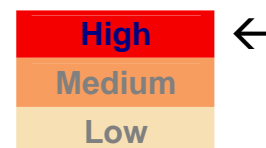
Other supporting information

Survey type



EU

Priority rating



Cauliflower



Monitoring History

Last tested 2006 no. of times last 6 years 2

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

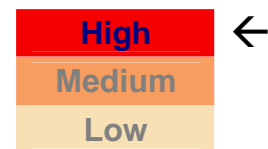
Pesticides to be sought 240 list

Other supporting information

Survey type



Priority rating



Orange Juice



Monitoring History

Last tested 2006 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years

RASSFs None in the last 6 years

Proposed Survey

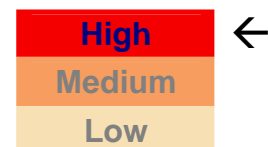
Pesticides to be sought 240 list

Other supporting information

Survey type



Priority rating



Peas



Monitoring History

Last tested 2006 no. of times last 6 years 2

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years

RASSFs None in the last 6 years

Proposed Survey

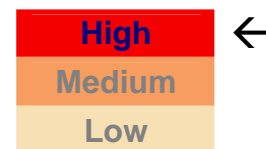
Pesticides to be sought 240 list

Other supporting information Fresh or frozen peas, without pods.

Survey type



Priority rating



Sweet Peppers



Monitoring History

Last tested 2008 no. of times last 6 years 5

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance ✓ 2007: methomyl in sweet peppers from Spain.
Plus 1 exceedance in 2003.

RASSFs ✓ 2007: acetamiprid in sweet peppers from Turkey (2); carbofuran in sweet peppers from Egypt; isofenphos-methyl in sweet peppers from Spain (28); methiocarb in sweet peppers from Spain; methomyl in sweet peppers from Egypt (2), Spain and Turkey (3); oxamyl in sweet peppers from Spain (4) and Turkey (5).
2006: dicofol in sweet peppers from Morocco; methamidiphos in sweet peppers from Spain
Plus 10 RASSFs in 2005, 7 in 2004 and 10 in 2003.

Proposed Survey

Pesticides to be sought 240 list plus

Other supporting information

Survey type



Priority rating



Table Grapes



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance

✓ 2007: acephate in grapes from Brazil; captan in grapes from Chile (9); carbofuran in grapes from Brazil and Chile; chlorpyrifos in grapes from Chile; methamidiphos in grapes from Brazil; methomyl in grapes from South Africa
 2006: fenvalerate in grapes from Turkey; imazalil in grapes from Turkey; methomyl in grapes from India, Spain and the USA; thiocarb in grapes from Spain
 Plus 3 exceedances in 2005, 7 in 2004 and 4 in 2003.

RASSFs

✓ 2007: carbendazim in grapes from Lebanon (4), captan in grapes from Chile, carbofuran in grapes from Brazil (3) and Chile, cypermethrin in grapes from Lebanon (3), methamidiphos in grapes from Lebanon, methiocarb in grapes from Italy, methomyl in grapes from Netherlands, Chile (2), Lebanon and Peru, monocrotophos in grapes from Lebanon
 2006: dimethoate in grapes from Italy, dithiocarbamates in grapes from Turkey, metalaxyl in grapes from Turkey, methomyl in grapes from France and Spain, monocrotophos in grapes from Turkey, omethoate in grapes from Belgium, procymidone in grapes from Turkey.
 Plus 7 RASSFs in 2005, 11 in 2004 and 13 in 2003.

Proposed Survey

Pesticides to be sought 240 list

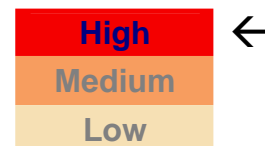
Other supporting information Candidate for rapid response survey

Survey type



EU

Priority rating



Ordinary Bread



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS Top 10 infants ✓ Top 10 toddlers ✓ Top 10 children ✓ Top 10 adults ✓

Incidence of residues

MRL exceedance No MRLs set for Chlormequat, glyphosate, mepiquat, pirimiphos methyl, malathion.

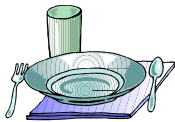
RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Cereal multi-residue analytes plus chlormequat and glyphosate.

Other supporting information Expenditure and Food Survey 2005/6 data shows overall bread consumption up 0.8%, with wholemeal and granary bread showing the largest increase on 2004/5 at 21%.

Survey type



Staple

Priority rating

High ←
Medium
Low

Speciality Bread



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS Top 10 infants ✓ Top 10 toddlers ✓ Top 10 children ✓ Top 10 adults ✓

Incidence of residues

MRL exceedance See Ordinary Bread

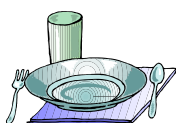
RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Cereal multi-residue analytes plus chlormequat and glyphosate.

Other supporting information Types of speciality bread: bagel, brioche, ciabatta, focaccia, naan, pitta, rye, soda, tortilla wrap.

Survey type



Staple

Priority rating

High ←
Medium
Low

Milk



Monitoring History

Last tested 2008 **no. of times last 6 years** 6 (cows)
3 (Goats)

Dietary importance

SFVS **Top 10 infants** ✓ **Top 10 toddlers** ✓ **Top 10 children** ✓ **Top 10 adults** ✓

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

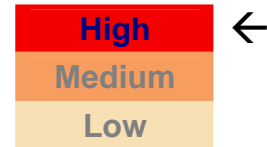
Pesticides to be sought Animal products suite.

Other supporting information To include cows, ewes and goats milk

Survey type



Priority rating



ROLLING PROGRAMME

Lamb



Monitoring History

Last tested 2006 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Animal products suite.

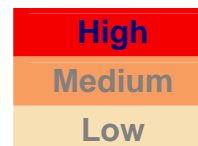
Other supporting information Residues of DDT, diazinon and dieldrin detected in 2006

Survey type



rolling

Priority rating



Pate (meat based)



Monitoring History

Last tested 2003 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Animal products suite.

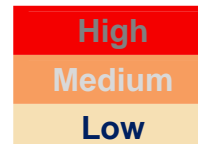
Other supporting information

Survey type



rolling

Priority rating



Soft Cheese



Monitoring History

Last tested N/A no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.
 RASSFs ✓ 2006 – rodenticide in cheese from Denmark.

Proposed Survey

Pesticides to be sought Animal product suite
 Other supporting information

Survey type  rolling Priority rating

High
Medium ←
Low

White fish



Monitoring History

Last tested 2003 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.
 RASSFs ✓ 3 RASSFs for fish in 2006 and 1 in 2005.

Proposed Survey

Pesticides to be sought Animal products suite.
 Other supporting information Oily fish was surveyed in 2008 and 2007 so this survey will exclude those types of fish.

Survey type  rolling Priority rating

High
Medium ←
Low

Pasta



Monitoring History

Last tested 2003 **no. of times last 6 years** 1

Dietary importance

SFVS **Top 10 infants** **Top 10 toddlers** **Top 10 children** **Top 10 adults**

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought Cereal multi-residue analytes plus chlormequat and glyphosate.

Other supporting information

Survey type



Priority rating

High
Medium
Low ←

Fruit and vegetables

Beetroot



Monitoring History

Last tested 1995 no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought 240 list.

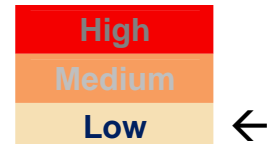
Other supporting information To include raw samples, not cooked or pickled. Increasingly popular as linked to health claims with respect to lowering blood pressure

Survey type



rolling

Priority rating



Brussels Sprouts



Monitoring History

Last tested 1997 no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children ✓ Top 10 adults ✓

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought 240 list.

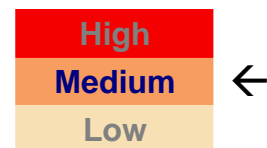
Other supporting information

Survey type



rolling

Priority rating



Lettuce



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS	Top 10 infants	Top 10 toddlers	Top 10 children	Top 10 adults
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Incidence of residues

MRL exceedance ✓ 2007: chlorothalonil in lettuce from the UK (2)
 2006: dithiocarbamates in lettuce from Spain (4)
 Plus 4 exceedances in 2005, 4 in 2004 (4), and 5 in 2003

RASSFs ✓ 2007: methomyl in lettuces from Italy; omethoate in lettuces from France; procymidone in lettuces from Italy
 2006: dithiocarbamates in lettuces from Italy and Spain (2); folpet in lettuces from Italy; methomyl in lettuces from Italy; procymidone in lettuces from Italy.
 Plus 8 RASSFs in 2005, 7 in 2004, and 1 in 2003.

Proposed Survey

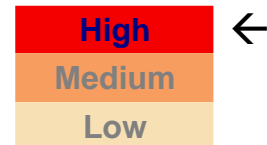
Pesticides to be sought 240 list + dithiocarbamates, inorganic bromine

Other supporting information

Survey type



Priority rating



Lemons



Monitoring History

Last tested 2006 no. of times last 6 years 1

Dietary importance

SFVS	Top 10 infants	Top 10 toddlers	Top 10 children	Top 10 adults
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Incidence of residues

MRL exceedance

RASSFs Aldicarb, bromopropylate, carbaryl, dimethoate, imazalil, methiocarb, parathion-methyl, propiconazole, trichlorphon from Argentina, Spain and Turkey

Proposed Survey

Pesticides to be sought 240 list plus single residue methods

Other supporting information

Survey type



Priority rating



Limes



Monitoring History

Last tested 2003 no. of times last 6 years 1

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults ✓

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs ✓ 2007: triazophos in limes from Brazil

Proposed Survey

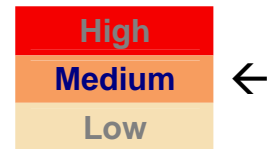
Pesticides to be sought 240 list

Other supporting information

Survey type



Priority rating



Olives



Monitoring History

Last tested 1998 no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs ✓ 1 RASSF in 2003.

Proposed Survey

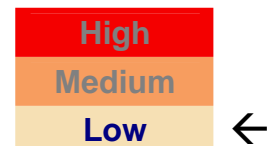
Pesticides to be sought 240 list.

Other supporting information

Survey type



Priority rating



Fruit and vegetables

Pear



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS ✓ Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance ✓ 2007: carbendazim in pears from Belgium; fenitrothion in pears from Italy. Plus 1 exceedance in 2003.

RASSFs ✓ 2007: amitraz in pears from Turkey (8); carbendazim in pears from Belgium (2); iprodione in pears from Italy; methomyl in pears from South Africa; phorate in pears from China; thiabendazole in pears from Italy
2006: dithiocarbamates in pears from Italy
Plus 3 RASSFs in 2005, 1 in 2004, and 1 in 2003.

Proposed Survey

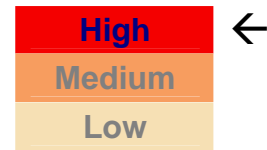
Pesticides to be sought 240 list

Other supporting information

Survey type



Priority rating



Potato



Monitoring History

Last tested 2008 no. of times last 6 years 6

Dietary importance

SFVS Top 10 infants ✓ Top 10 toddlers ✓? Top 10 children ✓ Top 10 adults ✓

Incidence of residues

MRL exceedance ✓ 2007: fosthiazate in potatoes from the UK (3)
Plus 2 exceedances in 2005, and 1 in 2003

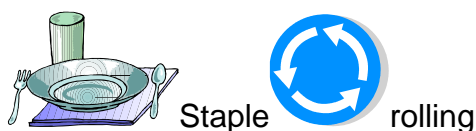
RASSFs ✓ 2006: chlorpropham in potatoes from the UK.

Proposed Survey

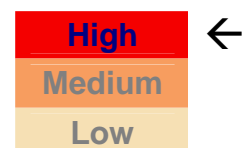
Pesticides to be sought 240 list + maleic hydrazide.

Other supporting information Collected by Plant Health and Seeds and Inspectors from points in the supply chain.

Survey type



Priority rating



Radishes



Monitoring History

Last tested 1997 no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought 240 list

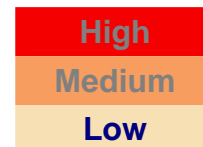
Other supporting information To include Mooli (daikon)

Survey type



rolling

Priority rating



Speciality Vegetables

Monitoring History

Last tested NEW no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in Okra, Fennel - procymidone above MRL, iprodione at MRL

RASSFs Acephate, Endosulfan, Monocrotophos, Triazophos on okra

Proposed Survey

Pesticides to be sought 240 list plus single residue methods

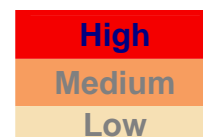
Other supporting information To include fennel, celeriac, globe artichokes, eddoes, okra, karela (bitter melon), Jerusalem artichoke, turia
Increasing popularity due in part to celebrity chefs using as ingredients and availability in mainstream supermarkets.

Survey type



rolling

Priority rating



Fruit Teas



Monitoring History

Last tested 1999 no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought 240 list

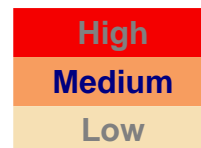
Other supporting information Increasingly popular caffeine free alternative

Survey type



rolling

Priority rating



Jam



Monitoring History

Last tested N/A no. of times last 6 years 0

Dietary importance

SFVS Top 10 infants Top 10 toddlers Top 10 children Top 10 adults

Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

Pesticides to be sought 240 list.

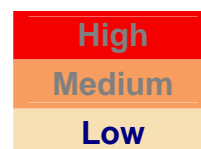
Other supporting information

Survey type



rolling

Priority rating



Processed Potatoes



Monitoring History

Last tested 2001 **no. of times** 0
 2002 (chips) **last 6 years**

Dietary importance

SFVS	Top 10 infants ✓	Top 10 toddlers ✓	Top 10 children ✓	Top 10 adults ✓
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Incidence of residues

MRL exceedance None in the last 6 years.

RASSFs None in the last 6 years.

Proposed Survey

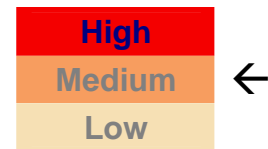
Pesticides to be sought 240 list + maleic hydride

Other supporting information Includes chips, waffles, crisps, instant potato, tinned potatoes. This survey could also include the catering and food service sector for pre-prepared chips etc. PSD will need to liaise with appropriate organisations.

Survey type



Priority rating



Rapid Response



Monitoring History

Last tested 2008 no. of times last 6 years 2

Dietary importance

SFVS Top 10 infants n/a Top 10 toddlers n/a Top 10 children n/a Top 10 adults n/a

Incidence of residues

MRL exceedance n/a

RASSFs n/a

Proposed Survey

Pesticides to be sought 240 list plus single residue methods to include isofenphos methyl.

Other supporting information This survey type was introduced in 2007. Commodities to be monitored are selected based on recent RASSFs or other residue information received. Currently a strong candidate is pepper. Findings of the non-approved pesticide isofenphos methyl in Spanish produce promoted rapid reports during 2007. Follow up may be required in subsequent years. Possible suggestion: pepper or grapes, depending on results from 2008.

Survey type

Rapid response

Priority rating

High	←
Medium	
Low	