PESTICIDES POLICY

FRESH PRODUCE

Reference	Version number	Issued by	Authorised by	Date
IS08f1	3	Gordon Cameron	Damon Johnson	June 2024

1.0 Purpose

The purpose of this document is to inform growers, suppliers and other stakeholders to Morrisons' business of our policy on the use of pesticides in the supply of our Fresh Produce.

2.0 Scope

This policy covers all pesticides used on Fresh Produce supplied to Morrisons Supermarkets. Suppliers are to use this in conjunction with IS08f (Morrisons Raw Material Sourcing Policy for Fresh Produce).

3.0 Goal

Morrisons requires the responsible use of pesticides at all times. All suppliers are required to employ the principles of Integrated Pest Management (IPM), Good Agricultural Practice (GAP) and to disclose their use of pesticides on an annual basis to ensure as little pesticide is used as is absolutely necessary. Morrisons aims to phase out the use of Highly Hazardous Pesticides in its supply chains through its Fresh Produce Prohibited and Restricted Pesticide Lists.

4.0 Good Agricultural Practice (GAP) & Integrated Crop Management (ICM)

Morrisons requires that all of its fresh produce is grown using the principles of GAP and that growers are certified to demonstrate compliance with these principles. Therefore, all growers supplying produce to Morrisons must have their production certified as being compliant with a GAP standard such as Red Tractor https://redtractor.org.uk/ or GLOBALG.A.P. standard https://www.globalgap.org/. Certification to equivalent schemes will be considered for concession by the relevant Morrisons Technical Manager. Morrisons employs an independent expert consultancy which supports our Technical teams on all pesticide matters.

IPM is a fundamental part of GAP and is an approach to farming that balances the requirements of running a profitable business with responsibility and sensitivity to the environment. IPM involves promotion of non chemical crop controls and prioritisation of practices that avoid waste, enhance energy efficiency and minimise pollution. Morrisons supports IPM initiatives throughout its supply base.

To comply with the requirements of GAP risk assessments must be completed (this includes, but is not limited to): impact to non target organisms, neighboring crops, water courses and human exposure. All recommended applications and the accompanying prerequisite risk assessments should be carried out by an employee or contractor verified to have attained adequate training and qualifications.

5.0 Legislation

Following the withdrawal of the United Kingdom from the European Union, suppliers must ensure that they have an understanding of the current relevant legislation. Pesticide use on crops grown in the United Kingdom must comply with the latest regulatory approvals as given in The Pesticides Register Database for on label approvals or the Extension of Authorisation for Minor Use Database for off label approvals. (see below)

https://secure.pesticides.gov.uk/pestreg/
https://secure.pesticides.gov.uk/offlabels/

Pesticide use on crops grown in countries outside the United Kingdom must comply with the approved uses in the country of origin.

Foodstuffs imported into Great Britain must comply with GB MRLs. These are based on the EU MRLs applicable on 31/12/2020, with subsequent modifications. Current GB MRLs may be found here:

https://secure.pesticides.gov.uk/MRLs/Main

Foodstuffs imported into Northern Ireland or transferred from Great Britain to Northern Ireland must comply with EU MRLs. Current EU MRLs may be found here:

https://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/start/screen/products

6.0 Morrisons Pesticide Control Lists (MPCLs)

MPCLs are processed for each crop country combination. Morrisons uses a wide range of data to formulate its pesticide risk assessments, this includes environmental impact, operator and consumer safety, approved use, legally conforming finished products, GAP and data from external authorities.

The MPCL assigns a risk rating for crop and country of production, and recommends a minimum surveillance frequency for residues throughout a season. This risk rating is based on proposed pesticides submitted for use, horizon scanning (future trends) and historical data. When a supplier submits a pesticide present on the Pesticide Action Network (PAN) Highly Hazardous Pesticides (HHP) list this is flagged to the grower.

6.1 Pesticide Derogation process

Morrisons' holds Prohibited, Restricted and Monitored lists of pesticides which it has developed jointly with its independent expert consultancy. Pesticides included in our Prohibited list are deemed unacceptable for use, pesticides included in our Restricted list category I where use is unavoidable a derogation request must be made to the relevant Technical Manager through the independent expert consultancy. A derogation will only be approved if it can be demonstrated that there is no alternative and that mitigating measures are being taken to minimise any harmful impact that the application may cause. A volume reduction target of 50% for every Restricted I category derogation is set with a case dependent timescale. Growers proposing to use a Restricted category II active are required to submit justification for use before approval can be given. This approach encourages focus where needed for phase-out of high risk pesticides to ensure alternatives are found at the earliest opportunity. It is Morrisons' intention to work towards phasing these pesticides out.

Any use of pesticides on our Prohibited List or unapproved use of pesticides on our Restricted Lists would be deemed a serious breach of this Pesticide Policy and could result in the removal of Technical Approval of the grower or the supplier.

7.0 Pesticide Residue Analysis

Each supplier to Morrisons must conduct their own Pesticide Residue Analysis at an accredited laboratory (ISO/IEC 17025) that can demonstrate participation in inter-laboratory comparative tests. Furthermore, Morrisons conducts a risk-based Pesticide Surveillance Programme. Crops and countries that are deemed to be high risk are tested more frequently.

7.1 Pesticide Residue Analysis Results

7.1.1 Maximum Residue Level (MRL) Exceedance

An MRL is the Maximum Residue Level of a pesticide residue expected to be found in food that has been produced following good agricultural practice, it is a legal limit and is not indicative of food safety.

In the event of an MRL exceedance in fresh produce supplied to Morrisons, a thorough investigation will be conducted by the relevant member of the Morrisons' technical team and our independent expert consultancy to determine the potential impact, the root cause and the corrective action Morrisons also oversees investigation and root cause analysis for detections: of unapproved pesticides, 'near misses' and multiple residues.

Where a residue level exceeds the Acute Reference Dose (ARfD), it is deemed to be a Food Safety issue and our Food Safety Team is notified and appropriate action will be taken following an investigation to ensure consumer health is safeguarded.

7.1.2 Detections of Unapproved Pesticides

Any residue results that show a pesticide from the Restricted List that has not been approved via derogation is deemed a serious breach of this policy. If the subsequent investigation findings are deemed to be unsatisfactory, technical approval may be withdrawn from the supplier or the grower.

7.1.3 Near Misses

Surveillance results which fall between 50 and 100% of the MRL will be deemed to be a 'near miss'.

7.1.4 Multiple Residues
Where the residue surveillance results show the number of residues found is significantly higher than the norm for the crop and country combination the supplier will be required to conduct a root cause analysis and submit their findings plus any resulting actions to our independent expert consultancy for approval by the relevant Technical Manager.

7.2 Traceability Challenges
Morrisons conducts a schedule of traceability challenges targeting the highest risk crop/country combinations with regards to pesticides.To include but not limited to: spray records (including risk assessments for applications), finished product residue testing, GAP Standard, evidence of compliance with action plans and reduction targets.

8.0 Transparency
As a commitment to transparency for our customers and stakeholders Morrisons will publish this policy and its Prohibited and Restricted Lists. These documents will be reviewed periodically.
We shall continue to publish the results of our Pesticide Surveillance Programme.
Morrisons will continue to share learnings on pesticides and IPM through grower groups.

9.0 Organic
Morrisons offers an Organic range of fresh produce for those customers who wish to purchase products produced to Organic standards. Our Organic fresh produce range is certified independently to national and international Organic standards.

10.0 Pollinators
Morrisons encourages its suppliers to monitor pollinator populations. Suppliers are required to explore less toxic control methods prior to using bee toxic neonicotinoids in order to be able to justify why alternative pest control methods are not an option.

Morrisons recommends that all UK growers are signed up to and actively use the Bee Connected app.(https://beeconnected.org.uk/)

Morrisons continues to review the use of pesticides with specific toxicity to bees and other pollinators and highlight these in our MPCLs. Morrisons actively encourage our growers and suppliers to find alternative pesticides with less toxicity and to monitor pollinator populations. We are evaluating the global use of neonicotinoids in our fresh produce supply base together with our independent expert consultancy firm.

11.0 Supporting Suppliers

Morrisons Technical Team is based in the UK and overseas in key sourcing countries, (Spain, South Africa, Peru, Costa Rica, Morocco and The Netherlands). These teams are supplier facing and include qualified agronomists who work closely with our global supply base to ensure sourcing of fresh produce that meets Morrisons standards and complies with UK legislation. Our multilingual team promotes the sharing of best practices related to IPM, pesticide reduction and HHP stewardship.

Morrisons host grower groups focused on Integrated Pest Management (IPM). These groups have been organised in conjunction with our independent expert consultancy firm, to share best practice and promote development of novel techniques through encouraging collaborative work. We continue to work with our supply base to reduce post harvest treatments and evaluate new natural alternatives.

Appendix 1

**Morrisons Pesticide Lists are under constant review. For the latest version please contact your Fresh Produce Technical Manager.*

Morrisons Fresh Produce Prohibited Pesticide List.

1,2-dibromoethane (Ethylene dibromide)
1,2-dichloroethane (Ethylene dichloride)
2-aminobutane (sec-butylamine)
2,4,5-T
Acetochlor
Acrolein
Alachlor
Aldicarb
Aldrin
Allyl alcohol
Anthracene oil
Anthraquinone
ANTU (Alpha-naphthylthiourea)
Azamethiphos
Azinphos-ethyl
Azinphos-methyl
Azobenzene
Azocyclotin
Binapacryl
Bioresmethrin
Blasticidin S
Bromethalin
Butocarboxim
Butoxycarboxim
Cadmium compounds
Calcium arsenate
Calcium cyanide
Camphechlor (Toxaphene)
Captafol
Carbofuran

Carbon tetrachloride (Tetrachloromethane)
Chlordane
Chlordecone
Chlordimeform
Chlorethoxyfos
Chlorfenvinphos
Chlormephos
Chlorobenzilate
Chloroform
Chlorophacinone
Chlorophene
Climbazole
Coumaphos
Creosote
Cyhexatin
DDT
Demeton-methyl
Demeton-S-methyl
Dicofol
Dicrotophos
Dieldrin
Difethialone
Dinoseb
Dinoterb
Disulfoton
DNOC
E-Phosphamidon
Edifenphos
Endosulfan
Endrin
Epichlorohydrin
EPN
Ethiofencarb
Ethion
Ethoxyquin
Ethylene oxide
Etrimfos
Famphur
Fentin acetate (Triphenyltin acetate)
Fentin hydroxide (Triphenyltin hydroxide)
Fluazolate
Flucythrinate
Fluoroacetamide
Formaldehyde
Formothion
Guazatine
HCH (mix of isomers)
HCH-alpha
HCH-beta
HCH-delta
Heptachlor
Heptenophos
Hexachlorobenzene (HCB)
Hexaflumuron
Hydrogen cyanide
Imiprothrin
Isazofos
Isofenphos

Isoxathion
Lead arsenate
Lindane (HCH-gamma)
Mecarbam
Mephosfolan
Mercury compounds
Methamidophos
Methoxychlor
Methyl bromide
Mevinphos
Mirex
Monocrotophos
Nitrofen
Noviflumuron
Omethoate
Oxydemeton-methyl
Parathion
Parathion-methyl
Paris green (Copper acetoarsenite)
Pentachlorophenol (PCP)
Phenyl mercury acetate
Phorate
Phosalone
Phosphamidon
Potasan
Potassium arsenite
Prallethrin
Propetamphos
Propoxur
Propylene oxide
Pyrazachlor
Pyrazophos
Pyrazoxon
Quinalphos
Quintozene (PCNB)
Resmethrin
Silafluofen
Sodium arsenite
Sodium cyanide
Sodium fluoroacetate (1080)
Strychnine
Sulfotep
Tebupirimfos
Tecnazene
Temephos
Thallium sulfate
Thiofanox
Thiometon
Thiourea
Triazophos
Triazoxide
Tributyltin compounds
Trichlorfon
Vamidothion
Vinclozolin
Warfarin
Z-Phosphamidon

Morrisons Fresh Produce Restricted Pesticide List.

Category I

Acephate
Alanycarb
Alpha-chlorohydrin (3-Chloro-1,2-propanediol)
Atrazine
Azafenidin
Benfuracarb
Benomyl
Biphenyl
Bromophos-ethyl
Butachlor
Carbosulfan
Chlorpyrifos
Chlorpyrifos-methyl
Coumatetralyl
Cyanazine
Dichlorvos (DDVP)
Dimethoate
Diphacinone
Diphenylamine
Ethoprophos (Ethoprop)
Fenitrothion
Fenthion
Flusulfamide
Furathiocarb
Halfenprox
Iprodione
Isocarbophos
Methidathion
Methiocarb
Molinate
Monolinuron
MSMA
Naled
Nicotine
Oxadixyl
Paraquat
Propazine
Pyraclofos
Pyridaphenthion
Sulfluramide
Terbufos
Tetrachlorvinphos
Triazamate
Tridemorph
XMC

Category II

1,3-dichloropropene
Amitraz
Amitrole
Bensulide
Beta-cyfluthrin
Brodifacoum
Bromadiolone
Bromopropylate

Cadusafos
Carbendazim
Cartap
Chinomethionat (Oxythioquinox)
Chlorfenapyr
Chloropicrin
Chlorothalonil
Chlorthal-dimethyl
Clothianidin
Cyfluthrin
Diazinon
Dichlobenil
Difenacoum
Dimoxystrobin
Dinocap
Dinotefuran
Fenamiphos
Fenarimol
Fenbutatin oxide
Fenobucarb
Fenpropathrin
Ferbam
Fipronil
Flocoumafen
Furfural
Gentamicin sulfate
Imidacloprid
Iminoctadine
Isoprocarb
Isoproturon
Malathion (Mercaptothion)
Methomyl
Metominostrobin
Natamycin (Pimaricin)
Nitenpyram
Oxamyl
Oxolinic acid
Oxytetracycline (Terramicin)
Pencycuron
Permethrin
Phenthoate
Phosmet
Phoxim
Picloram
Pirimiphos-methyl
Procymidone
Profenofos
Profoxydim
Prometryn
Propachlor
Propargite
Prothiofos
Quinoxyfen
Simazine
Streptomycin
Terbutryn
Tetracycline
Thiacloprid

Thiamethoxam
Thiodicarb
Tolylfluanid
Topramezone
Tricyclazole
Trifluralin
Zineb

Morrisons Fresh Produce Monitored Pesticide List.
2,4-D
8-hydroxyquinoline
Abamectin
Acifluorfen-sodium
Acrinathrin
Alpha-cypermethrin
Aluminium phosphide
Amisulbrom
Bendiocarb
Benthiavalicarb-isopropyl
Beta-cypermethrin
Bifenthrin
Boric acid
Bromoxynil
Bromoxynil heptanoate
Bromoxynil octanoate
Captan
Carbaryl
Carbetamide
Chlorantraniliprole
Chlorfluazuron
Chlorotoluron
Chlorpropham
Cholecalciferol
Copper hydroxide
Cyanamide
Cyhalothrin
Cypermethrin
Cyproconazole
Daminozide
Deltamethrin
Diafenthiuron
Dichlorprop
Diclofop-methyl
Diquat dibromide
Diquat dichloride
Diuron
Dodine
Emamectin benzoate
Epoxiconazole
Esfenvalerate
Ethirimol
Etofenprox
Etridiazole
Fenazaquin
Fenbuconazole
Fenhexamid
Fenoxycarb
Fenpyroximate

Fenvalerate
Fluazifop-butyl
Fluazinam
Flubendiamide
Flufenoxuron
Flumetralin
Flumioxazin
Flupyradifurone
Flusilazole
Fluthiacet-methyl
Fluvalinate
Folpet
Forchlorfenuron
Formetanate hcl
Fosthiazate
Gamma-cyhalothrin
Glufosinate-ammonium
Glyphosate
Halosulfuron-methyl
Haloxyfop-methyl
Hexythiazox
Imazalil
Imazalil sulfate
Indoxacarb
Iprovalicarb
Isopyrazam
Isoxaflutole
Kresoxim-methyl
Lactofen
Lambda-cyhalothrin
Linuron
Lufenuron
Magnesium phosphide
Mancozeb
Maneb
Mecoprop
Mepanipyrim
Meptyldinocap
Metaflumizone
Metam potassium
Metam sodium
Methabenzthiazuron
Metiram
Metribuzin
Milbemectin
Nitrobenzene
Oryzalin
Oxadiazon
Oxyfluorfen
Pendimethalin
Petroleum oils
Phosphine
Pirimicarb
Propiconazole
Propineb
Pymetrozine
Pyraflufen-ethyl
Pyrethrins

Pyridaben
Pyridalyl
Pyrimidifen
Quinoclamine
Quizalofop-p-tefuryl
Rotenone
Sodium tetraborate
Spinetoram
Spinosad
Spirodiclofen
Sulfoxaflor
Tau-fluvalinate
TCMTB
Tebuconazole
Tefluthrin
Tepraloxydim
Tetraconazole
Tetramethrin
Thiabendazole
Thiophanate-methyl
Tioxazafen
Tolfenpyrad
Tralomethrin
Triadimenol
Triallate
Tribufos
Triflumizole
Validamycin
Zeta-cypermethrin
Zinc phosphide
Ziram

Appendix 2

Morrisons Residues Monitoring Summary

As always, samples were chosen to represent as wide a range of fresh produce as possible, with an increased volume of testing for crops included in the 2023 PRiF survey, and for crops considered as 'high risk'. High risk crops usually refer to non-UK/EU crops where there is a history of MRL exceedances in UK/EU monitoring, or where the corresponding Morrisons Pesticide Control List (MPCL) has been designated as high risk following a review of the proposed pesticides uses submitted.

An overview of results for 2023 is as follows:

Total samples	Samples with zero residues	Samples with 1 or more residues below all GB MRLs	Samples with MRL exceedances
342	**157**	**181**	**4**

15 organic samples, each of a different crop, were included. None of these samples contained any residues of synthetic pesticides.

1.17% of samples contained MRL exceedances. This is well below the 2-5% typically found in UK official monitoring, despite disproportionate sampling of higher risk crops.

Of the 342 samples tested, 109 were from the UK (inc. 1 from Jersey), 91 from the EU, and 142 from Non-EU/UK countries.

Year on Year summary:

	2018	2019	2020	2021	2022	2023
Number of product samples tested	363	420	360	343	305	342
Samples with zero residues	128 (35%)	148 (35%)	120 (33%)	143 (42%)	158 (52%)	157 (46%)
Sample with 1 residue below GB/EU MRL	82 (23%)	87 (21%)	89 (25%)	74 (22%)	63 (21%)	55 (16%)
Samples with 2 or more residues all below GB/EU MRL	148 (41%)	175 (42%)	145 (40%)	120 (35%)	83 (27%)	126 (37%)
Samples with at least 1 MRL exceedance	5 (1.4%)	10 (2.4%)	6 (1.7%)	5 (1.5%)	1 (0.3%)	4 (1.2%)
Number of pesticide residues detected	581	667	614	477	319	500
Average detections per sample	1.60	1.59	1.71	1.39	1.05	1.46
Number of detections of WHO Ia / Ib pesticides (*)	0 (Ia); 0 (Ib)	0 (Ia); 2 (Ib)	0 (Ia) 0 (Ib)	0 (Ia); 0 (Ib)	0 (Ia); 0 (Ib)	0 (Ia); 2 (Ib)
Number of detections of PAN HHP pesticides (*)	266 (46%)	278 (42%)	218 (36%)	155 (32%)	97 (30%)	152 (30%)

- All years counted from 1st November of the previous year to 31st October of the stated year.
- (*) Latest WHO (2019) & PAN HHP (2021) classifications used for all years.
- Exceedances refers to residues above the relevant GB MRL from 1st January 2021 onwards, and above the relevant EU MRL up to this date.

2023 Statistics

Countries or Origin of Tested Produce:

Country	# of Samples	Average Residues
UK	108	1.1
Spain	46	1.3
South Africa	22	3.5
Netherlands	20	0.9
Peru	17	1.6
Brazil	14	2.2
Morocco	12	1
Egypt	11	0.8
Kenya	10	1.5
Italy	9	2.1
Costa Rica	8	0.9
India	8	0.4
Chile	7	3.6
Germany	5	3.4
Colombia	5	1.8
Israel	4	1.5
Unspecified	4	0.3
USA	3	1.7
New Zealand	3	1
Portugal	3	0.7
Ireland	3	0
Belgium	2	2
China	2	2
Zimbabwe	2	2
Senegal	2	0.5
Mexico	2	0
Greece	1	6
Belize	1	4
Ecuador	1	2
France	1	2
Guatemala	1	2
Ukraine	1	2
Dominican Republic	1	1
Jersey	1	1
Turkey	1	1
Bulgaria	1	0

Frequency of produce tested and breakdown of quantities of residues found:

Fresh Produce Crop	Number of Samples	Samples with 0 residues	Samples with 1 residue	Samples with 2+ residues	Average Number of Residues	%Samples with multiple residues	Samples with residues >MRL
Apples	10	1	2	7	2.6	70%	
Apricots	2	0	0	2	2	100%	
Asparagus	3	3	0	0	0	0%	
Aubergines	4	2	2	0	0.5	0%	
Avocados	6	3	0	3	1	50%	1
Baby Corn / Sweetcorn	5	5	0	0	0	0%	
Bagged Salads	5	1	1	3	1.6	60%	
Bananas / Plantains	4	1	0	3	2	75%	
Beans with pods	8	5	3	0	0.4	0%	
Beetroot	2	2	0	0	0	0%	
Blackberries	3	0	0	3	4.3	100%	
Blueberries	6	3	0	3	1.5	50%	
Broad Beans	1	1	0	0	0	0%	
Broccoli	6	6	0	0	0	0%	
Brussels Sprouts	3	0	1	2	1.7	67%	
Carrots	6	2	3	1	0.8	17%	
Cassava / Eddoes	2	2	0	0	0	0%	
Cauliflower	6	6	0	0	0	0%	
Celeriac	2	1	1	0	0.5	0%	
Celery	3	2	1	0	0.3	0%	
Cherries	4	0	0	4	4.5	100%	
Chestnuts	1	1	0	0	0	0%	
Chilli Peppers	8	6	2	0	0.3	0%	
Chinese Cabbage / Pak Choi	4	4	0	0	0	0%	
Coconuts	1	1	0	0	0	0%	
Courgettes / Marrows	5	4	1	0	0.2	0%	
Cucumbers	5	2	1	2	1.2	40%	
Dudhi	1	0	0	0	0	0%	
Fennel	2	2	0	0	0	0%	
Figs	3	2	1	0	0.3	0%	
Garlic	3	2	0	1	0.7	33%	
Ginger Root	3	3	0	0	0	0%	
Grapefruit / Pomelos	4	0	0	4	4	100%	
Head Cabbage	7	7	0	0	0	0%	
Herbs	20	2	1	17	3.4	85%	2
Kale / Spring Greens	4	2	0	2	1.5	50%	
Kiwi Fruit	5	2	3	0	0.6	0%	

Fresh Produce Crop	Number of Samples	Samples with 0 residues	Samples with 1 residue	Samples with 2+ residues	Average Number of Residues	%Samples with multiple residues	Samples with residues >MRL
Leeks	3	2	0	1	1	33%	
Lemons	4	0	0	4	4.3	100%	
Lettuce (Whole Head)	7	5	1	1	1	14%	
Limes	3	1	0	2	2.7	67%	
Mandarins (Soft Citrus)	6	0	0	6	5	100%	
Mangoes	3	0	2	1	1.3	33%	
Melons / Watermelons	10	5	0	5	1.4	50%	
Mushrooms	6	5	1	0	0.2	0%	
Nectarines / Peaches	7	1	4	2	2	29%	1
Okra	3	3	0	0	0	0%	
Onions	8	6	2	0	0.3	0%	
Oranges	6	1	0	5	4	83%	
Papaya	2	0	1	1	1.5	50%	
Parsnips	3	1	0	2	1.7	67%	
Passion Fruit	3	0	0	3	3	100%	
Peas with pods	7	0	0	7	2.6	100%	
Pears	8	1	0	7	2.8	88%	
Persimmon	1	0	1	0	1	0%	
Physalis	2	2	0	0	0	0%	
Pineapples	5	1	3	1	1	20%	
Plums	4	0	0	4	3.3	100%	
Pomegranates	3	1	2	0	0.7	0%	
Potatoes	8	6	2	0	0.3	0%	
Pumpkins / Squashes	6	5	1	0	0.2	0%	
Radishes / Mooli	4	2	2	0	0.5	0%	
Raspberries	4	3	0	1	0.5	25%	
Rhubarb	1	1	0	0	0	0%	
Samphire	1	0	1	0	1	0%	
Shallots	2	2	0	0	0	0%	
Spring Onions	6	2	2	2	1.7	33%	
Strawberries	5	0	0	5	3.4	100%	
Swedes	2	2	0	0	0	0%	
Sweet Peppers	5	3	1	1	0.6	20%	
Sweet Potatoes	5	3	2	0	0.4	0%	
Table Grapes	10	0	3	7	3.2	70%	
Tomatoes	9	4	1	4	1.2	44%	
Turmeric Root	1	1	0	0	0	0%	
Turnips	1	1	0	0	0	0%	
Witloof	1	0	1	0	1	0%	

“Herbs” includes the following crops: Basil (1), Chives (2), Coriander (3), Dill (2), Lemongrass (1), Mint (2), Parsley (4), Rosemary (3), Sage (1), Thyme (1)

“Bagged Salads” includes the following crops: Baby Leaf Spinach (2), Iceberg Lettuce (1), Pea Shoots (1), Watercress (1)

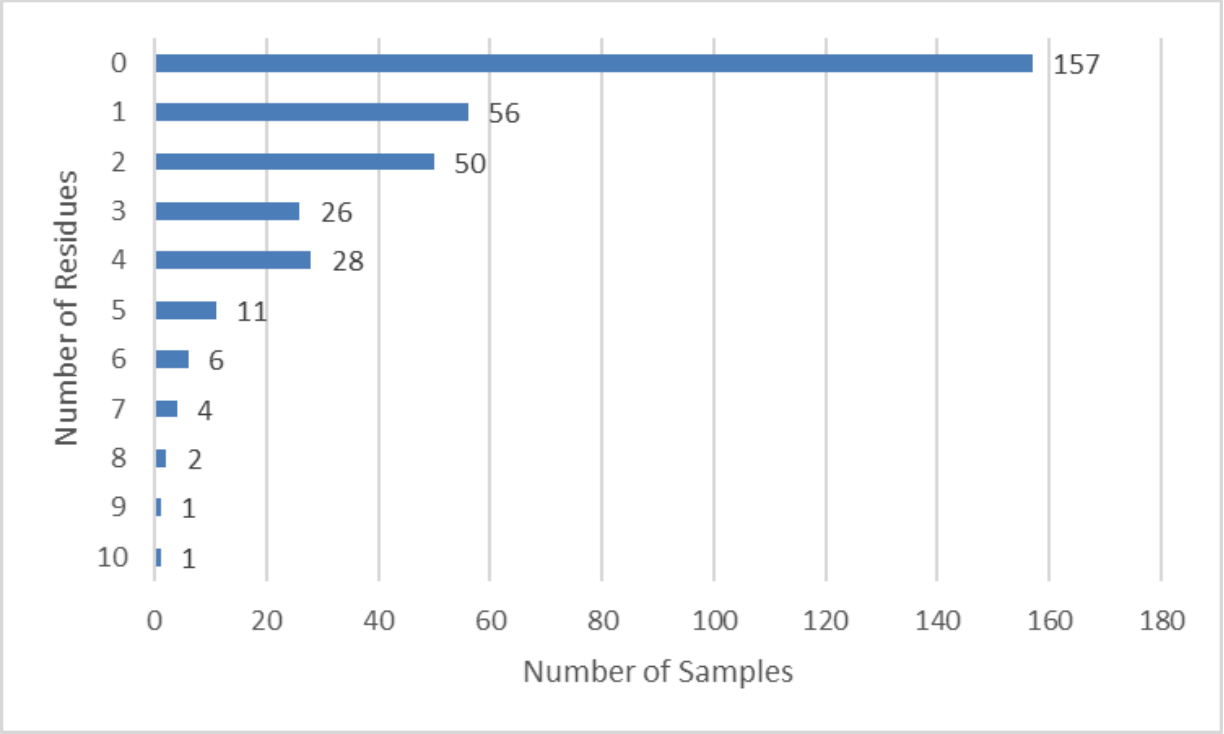
Frequency of pesticide residues detected:

Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Fludioxonil	56	WHO U		
Azoxystrobin	44	WHO U		
Boscalid	25	WHO U		
Pyrimethanil	25	WHO III		
Thiabendazole	21	WHO III	PAN HHP	
Imazalil	20	WHO II	PAN HHP	
Chlorantraniliprole	17	WHO U	PAN HHP	
Tebuconazole	17	WHO II	PAN HHP	
Difenoconazole	16	WHO II		
Fluopyram	15	WHO III		
Acetamiprid	14	WHO II		
Pyraclostrobin	14			
Cyprodinil	13			
Propamocarb	12	WHO U		
Dithiocarbamates	11			
Captan	9	WHO U	PAN HHP	
Pyriproxyfen	9	WHO U		
Fenhexamid	8	WHO U	PAN HHP	
Trifloxystrobin	8	WHO U		
Cyantraniliprole	7	WHO U		
Deltamethrin	7	WHO II	PAN HHP	
Lambda-cyhalothrin	7	WHO II	PAN HHP	
Metalaxyl	7	WHO II		
Mandipropamid	6	WHO U		
Pendimethalin	6	WHO II	PAN HHP	
Spirotetramat	6	WHO III		
Flonicamid	5	WHO II		
Fluopicolide	5	WHO U		
Methoxyfenozide	5			
Chlorates	4			
Fluxapyroxad	4	WHO III		
Folpet	4	WHO U	PAN HHP	

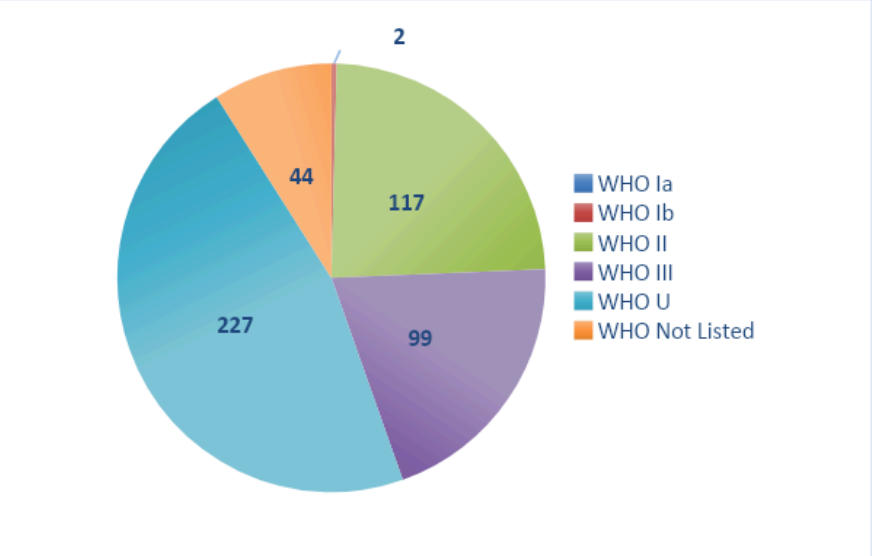
Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Spinosad	4	WHO III	PAN HHP	
2-Phenylphenol	3	WHO III		
Copper	3			
Dimethomorph	3	WHO III		
Ethephon	3	WHO III		
Fosetyl-aluminium	3	WHO U		
Hexythiazox	3	WHO U	PAN HHP	
Imidacloprid	3	WHO II	PAN HHP	Restricted: Category II
Indoxacarb	3	WHO II	PAN HHP	
Abamectin	2	WHO Ib	PAN HHP	
Ametoctradin	2	WHO III		
Bifenazate	2	WHO U		
Bifenthrin	2	WHO II	PAN HHP	
Cyromazine	2	WHO III		
Malathion	2	WHO III	PAN HHP	Restricted: Category II
Pyridaben	2	WHO II	PAN HHP	
Spirodiclofen	2	WHO III	PAN HHP	
Triallate	2	WHO III	PAN HHP	
2,4,6-Trichlorophenol	1			
Aclonifen	1	WHO U		
Carbendazim	1	WHO U	PAN HHP	
Chlormequat	1			
Clofentezine	1	WHO III		
Cyazofamid	1	WHO U		
Cypermethrin	1	WHO II	PAN HHP	
Diazinon	1	WHO II	PAN HHP	Restricted: Category II
Etofenprox	1	WHO U	PAN HHP	
Etoxazol	1	WHO III		
Fenpropimorph	1	WHO III		
Fenpyroximate	1	WHO II	PAN HHP	
Flubendiamide	1	WHO III	PAN HHP	
Flutriafol	1	WHO II		
Maleic hydrazide	1	WHO U		
Mepanipyrim	1	WHO U	PAN HHP	
Metrafenone	1	WHO U		
Novaluron	1	WHO U		
Perchlorates	1			
Pirimicarb	1	WHO II	PAN HHP	

Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Prochloraz	1	WHO II		
Profenofos	1	WHO II	PAN HHP	Restricted: Category II
Prosulfocarb	1	WHO II		
Prothioconazole	1	WHO U		
Spinetoram	1	WHO U	PAN HHP	
Spiromesifen	1			
Tau-fluvalinate	1	WHO III	PAN HHP	

Number of Detections Per Sample



WHO Classification of Detections



(Excludes Dithiocarbamates)

Residues of Prohibited Actives: None

Residues of Restricted – Category I Actives: None

Residues of Restricted – Category II Actives: 7