PESTICIDES POLICY

FRESH PRODUCE

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Index	Page
1.0 Purpose	3
2.0 Scope	3
3.0 Goal	3
4.0 Good Agricultural Practice (GAP) & Integrated Crop Management (ICM)	3
5.0 Legislation	3
6.0 Morrisons Pesticide Control Lists (MPCLs) 6.1 Pesticide Derogation process	4 5
7.0 Pesticide Residue Analysis 7.1 Pesticide Residue Analysis Results 7.1.1 Maximum Residue Level (MRL) Exceedance 7.1.2 Detections of Unapproved Pesticides 7.1.3 Near Misses 7.1.4 Multiple Residues	5 5 5 5 5 6
8.0 Transparency 9.0 Organic 10.0 Pollinators	6 6 6
11.0 Supporting Suppliers	6
Appendix I Morrisons Pesticide Lists	7-20
Appendix II Morrisons Fresh Produce Pesticide Testing Results	20-30

1.0 Purpose

The purpose of this document is to inform growers, suppliers and other stakeholders to Morrisons' business of the policy on the use of pesticides in the supply of 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 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 the Prohibited list are deemed unacceptable for use, pesticides included in the 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 the Prohibited List or unapproved use of pesticides on the 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 its 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 the 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 the 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 customers and stakeholders Morrisons will publish this policy and its Prohibited and Restricted Lists. These documents will be reviewed periodically.
Morrisons shall continue to publish the results of its 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 customers who wish to purchase products produced to Organic standards. Its 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 its MPCLs. Morrisons actively encourages growers and suppliers to find alternative pesticides with less toxicity and to monitor pollinator populations. Morrisons is evaluating the global use of neonicotinoids in its fresh produce supply base together with its independent expert consultancy firm.

11.0 Supporting Suppliers

The 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 the global supply base to ensure sourcing of fresh produce that meets Morrisons standards and complies with UK legislation. The multilingual team promotes the sharing of best practices related to IPM, pesticide reduction and HHP stewardship.

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

Appendix I

**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	1,2-dibromoethane (Ethylene dibromide)
2	1,2-dichloroethane (Ethylene dichloride)
3	2,4,5-T
4	2-aminobutane (sec-butylamine)
5	Acetochlor
6	Acrolein
7	Alachlor
8	Aldicarb
9	Aldrin
10	Allyl alcohol
11	Alpha-chlorohydrin (3-Chloro-1,2-propanediol)
12	Anthracene oil
13	Anthraquinone
14	ANTU (Alpha-naphthylthiourea)
15	Azafenidin
16	Azamethiphos
17	Azinphos-ethyl
18	Azinphos-methyl
19	Azobenzene
20	Azocyclotin
21	Binapacryl
22	Bioresmethrin
23	Blasticidin S
24	Bromethalin
25	Bromophos-ethyl
26	Butocarboxim
27	Butoxycarboxim
28	Cadmium compounds
29	Calcium arsenate
30	Calcium cyanide
31	Camphechlor (Toxaphene)
32	Captafol
33	Carbofuran

34 Carbon tetrachloride (Tetrachloromethane)
35 Carbosulfan
36 Chlordane
37 Chlordecone
38 Chlordimeform
39 Chlorethoxyfos
40 Chlorfenvinphos
41 Chlormephos
42 Chlorobenzilate
43 Chloroform
44 Chlorophacinone
45 Chlorophene
46 Chlorpyrifos
47 Chlorpyrifos-methyl
48 Climbazole
49 Copper arsenate
50 Coumaphos
51 Coumatetralyl
52 Creosote
53 Cyhexatin
54 DDT
55 Demeton-methyl
56 Demeton-S-methyl
57 Dibromochloropropane (DBCP)
58 Dicofol
59 Dicrotophos
60 Dieldrin
61 Difethialone
62 Dinoseb
63 Dinoterb
64 Disulfoton
65 DNOC
66 Edifenphos
67 Endosulfan
68 Endothal
69 Endrin
70 E-Phosphamidon
71 Epichlorohydrin
72 EPN

73 Ethiofencarb
74 Ethion
75 Ethoxyquin
76 Ethylene oxide
77 Etrimfos
78 Famphur
79 Fenitrothion
80 Fenthion
81 Fentin acetate (Triphenyltin acetate)
82 Fentin chloride (Triphenyltin chloride)
83 Fentin hydroxide (Triphenyltin hydroxide)
84 Fluazolate
85 Flucythrinate
86 Fluoroacetamide
87 Formaldehyde
88 Formothion
89 Guazatine
90 HCH (mix of isomers)
91 HCH-alpha
92 HCH-beta
93 HCH-delta
94 Heptachlor
95 Heptenophos
96 Hexachlorobenzene (HCB)
97 Hexaflumuron
98 Hydrogen cyanide
99 Imiprothrin
100 Isazofos
101 Isocarbophos
102 Isofenphos
103 Isoxathion
104 Lead arsenate
105 Lindane (HCH-gamma)
106 Mecarbam
107 Mephosfolan
108 Mercury compounds
109 Methamidophos
110 Methoxychlor
111 Methyl bromide (Bromomethane)

112 Mevinphos
113 Mirex
114 Monocrotophos
115 Monuron
116 MSMA (Monosodium methylarsonate)
117 Nereistoxin
118 Nicotine
119 Nitrofen
120 Noviflumuron
121 Omethoate
122 Oxydemeton-methyl
123 Paraquat
124 Paraquat dichloride
125 Parathion
126 Parathion-methyl
127 Paris green (Copper acetoarsenite)
128 Pentachlorophenol (PCP)
129 Phenothrin (Sumithrin)
130 Phenyl mercury acetate
131 Phorate
132 Phosalone
132 Phosphamidon
134 Potasan
135 Potassium arsenite
136 Prallethrin
137 Propetamphos
138 Propoxur
139 Propylene oxide
140 Pyraclofos
141 Pyrazachlor
142 Pyrazophos
143 Pyrazoxon
144 Pyridaphenthion
145 Quinalphos
146 Quintozene (PCNB)
147 Resmethrin
148 Silafluofen
149 Sodium arsenite
150 Sodium cyanide

151 Sodium fluoroacetate (1080)
152 Strychnine
153 Sulfluramide
154 Sulfotep (TEDP)
155 Sulfuric acid
156 Tebupirimfos
157 Tecnazene
158 Temephos
159 Terbufos
160 Tetrachlorvinphos
161 Thallium sulfate
162 Thiofanox
163 Thiometon
164 Thiourea
165 Triazamate
166 Triazophos
167 Triazoxide
168 Tributyltin compounds
169 Trichlorfon
170 Trichloroacetic acid (TCA) [and its salts]
171 Tridemorph
172 Vamidothion
173 Vinclozolin
174 Warfarin
175 Z-Phosphamidon

Morrisons Fresh Produce Restricted Pesticide List.

Category I

1 Acephate
2 Alanycarb
3 Atrazine
4 Benfuracarb
5 Benomyl
6 Bensulide
7 Biphenyl
8 Butachlor
9 Chinomethionat (Oxythioquinox)
10 Chlorthal-dimethyl (DCPA)

11 Clothianidin
12 Cyanazine
13 Cyanophos
14 Dichlobenil
15 Dichlorvos (DDVP)
16 Difenacoum
17 Dimethoate
18 Dinocap
19 Dinotefuran
20 Diphacinone
21 Diphenylamine
22 Ethoprophos (Ethoprop)
23 Fenbutatin oxide
24 Fenobucarb (BPMC)
25 Flusulfamide
26 Furathiocarb
27 Halfenprox (Brofenprox)
28 Imidacloprid
29 Iminoctadine
30 Iprodione
31 Isoprocarb
32 Mepronil
33 Methidathion
34 Methiocarb
35 Methyl Iodide (Iodomethane)
36 Metolcarb
37 Molinate
38 Monolinuron
39 Naled
40 Oxadixyl
41 Phenthoate
42 Phoxim
43 Profoxydim
44 Propachlor
45 Propazine
46 Pyrifenox
47 Simazine
48 Sodium chlorate
49 Thiamethoxam

50 Thiodicarb
51 Tolylfluanid
52 Topramezone
53 Trifluralin
54 XMC
55 Xylylcarb (MPMC)

Category II

1 1,3-dichloropropene
2 Ametryn
3 Amitraz
4 Amitrole
5 Bensultap
6 Beta-cyfluthrin
7 Bitertanol
8 Boric acid
9 Brodifacoum
10 Bromacil
11 Bromadiolone
12 Bromopropylate
13 Bromuconazole
14 Bronopol
15 Butralin
16 Cadusafos
17 Carbaryl
18 Carbendazim
19 Carbetamide
20 Cartap (Cartap hydrochloride)
21 Chlorfenapyr
22 Chlorfluazuron
23 Chloridazon (Pyrazon)
24 Chloropicrin
25 Chlorothalonil
26 Chlorpropham
27 Cycloate
28 Cyfluthrin
29 Diafenthiuron
30 Diazinon
31 Dichlorophen

32 Dicloran
33 Dimoxystrobin
34 Diniconazole
35 Diquat (Diquat dibromide)
36 Diquat dichloride
37 EPTC
38 Fenamiphos
39 Fenarimol
40 Fenpropathrin
41 Ferbam
42 Fipronil
43 Flocoumafen
44 Flufenzin (Diflovidazin)
45 Flumetralin
46 Fluometuron
47 Flusilazole
48 Furfural
49 Gentamicin sulfate
50 Hexazinone
51 Imibenconazole
52 Ioxynil
53 Iprobenfos (Kitazin)
54 Isocycloseram
55 Isoproturon
56 Linuron
57 Malathion (Mercaptothion)
58 Methabenzthiazuron
59 Methomyl
60 Metominostrobin
61 Natamycin (Pimaricin)
62 Nitenpyram
63 Nitrobenzene
64 Oxadiargyl
65 Oxamyl
66 Oxolinic acid
67 Oxytetracycline (Terramicin)
68 Pencycuron
69 Permethrin
70 Phosmet

71 Picloram
72 Pirimiphos-methyl
73 Procymidone
74 Profenofos
75 Prometon
76 Prometryn
77 Propargite
78 Propham
79 Propiconazole
80 Propisochlor
81 Prothiofos
82 Pyrifluquinazon
83 Pyrimidifen
84 Quinoxyfen
85 Rotenone
86 Streptomycin
87 Tepraloxydim
88 Terbacil
89 Terbutryn
90 Tetracycline
91 Thiacloprid
92 Thiobencarb (Benthiocarb)
93 Thiocyclam Hydrogen Oxalate
94 Thiophanate-methyl
95 Thiosultap-monosodium (Monosultap)
96 Tolclofos-methyl
97 Tolfenpyrad
98 Tralomethrin
99 Triadimefon
100 Triadimenol
101 Tribufos
102 Tricyclazole
103 Triflumizole
104 Triflumuron
105 Zineb

Morrisons Fresh Produce Monitored Pesticide List.

1 2,4-D

2	8-hydroxyquinoline (Quinolin-8-ol)
3	Abamectin
4	Acetamiprid
5	Acibenzolar-S-methyl
6	Acifluorfen-sodium
7	Acrinathrin
8	Alpha-cypermethrin
9	Aluminium phosphide
10	Amisulbrom
11	Asulam (Asulam sodium)
12	Beflubutamid
13	Bendiocarb
14	Benfluralin
15	Benthiavalicarb-isopropyl
16	Beta-cypermethrin
17	Bifenthrin
18	Broflanilide
19	Bromoxynil
20	Bromoxynil butanoate (Bromoxynil butyrate)
21	Bromoxynil heptanoate
22	Bromoxynil octanoate
23	Bromoxynil-potassium
24	Buprofezin
25	Calciferol (Ergocalciferol)
26	Calcium phosphide
27	Captan
28	Chlorantraniliprole
29	Chlorine dioxide
30	Chlorotoluron
31	Cholecalciferol
32	Copper hydroxide
33	Cyanamide (Hydrogen cyanamide)
34	Cyflufenamid
35	Cyflumetofen
36	Cyhalothrin
37	Cymoxanil
38	Cypermethrin
39	Cyproconazole
40	Cyprodinil

41 Daminozide
42 Deltamethrin
43 Dichlorprop
44 Diclofop-methyl
45 Diflufenican
46 Dimethomorph
47 Disodium octaborate anhydrous
48 Disodium octaborate tetrahydrate
49 Diuron
50 Dodine
51 Emamectin benzoate
52 Epoxiconazole
53 Esfenvalerate
54 Ethiprole
55 Ethirimol
56 Etofenprox
57 Etridiazole (Terrazole)
58 Fenazaquin
59 Fenbuconazole
60 Fenhexamid
61 Fenoxaprop-P-ethyl (Fenoxaprop-P)
62 Fenoxycarb
63 Fenpyroximate
64 Fenvalerate
65 Flazasulfuron
66 Flometoquin
67 Flonicamid
68 Fluazifop (Fluazifop-butyl)
69 Fluazifop-P (Fluazifop-P-butyl)
70 Fluazinam
71 Flubendiamide
72 Fludioxonil
73 Flufenacet
74 Flufenoxuron
75 Flumioxazin
76 Fluopicolide
77 Fluopyram
78 Flupyradifurone
79 Flurochloridone

80 Fluthiacet-methyl
81 Flutianil
82 Flutolanil
83 Fluvalinate
84 Folpet
85 Fomesafen
86 Forchlorfenuron
87 Formetanate
88 Formetanate hcl
89 Fosthiazate
90 Gamma-cyhalothrin
91 Glufosinate-ammonium
92 Glyphosate
93 Halosulfuron-methyl
94 Haloxyfop (Haloxyfop-methyl)
95 Haloxyfop-P (Haloxyfop-P-methyl)
96 Hexythiazox
97 Hydramethylnon
98 Imazalil
99 Imazalil sulfate
100 Indoxacarb
101 Ipconazole
102 Iprovalicarb
103 Isoflucypram
104 Isopyrazam
105 Isoxaflutole
106 Kresoxim-methyl
107 Lactofen
108 Lambda-cyhalothrin
109 Lufenuron
110 Magnesium phosphide
111 Mancozeb
112 Maneb
113 Mecoprop
114 Mefentrifluconazole
115 Mepanipyrim
116 Meptyldinocap
117 Metaflumizone
118 Metam potassium

119	Metam sodium
120	Metiram
121	Metribuzin
122	Milbemectin
123	Norflurazon
124	Novaluron
125	Oryzalin
126	Oxadiazon
127	Oxathiapiprolin
128	Oxyfluorfen
129	Pendimethalin
130	Penoxsulam
131	Penthiopyrad
132	Petroleum oils
133	Phosphine (Hydrogen phosphide)
134	Picolinafen
135	Picoxystrobin
136	Pirimicarb
137	Propineb
138	Proquinazid
139	Prosulfuron
140	Pyflubumide
141	Pymetrozine
142	Pyraflufen-ethyl
143	Pyrethrins
144	Pyridaben
145	Pyridalyl
146	Pyroxsulam
147	Quinoclamine
148	Quizalofop-p-tefuryl
149	Saflufenacil
150	Sodium tetraborate (Borax)
151	Spinetoram
152	Spinosad
153	Spirodiclofen
154	Sulfoxaflor
155	Tau-fluvalinate
156	TCMTB
157	Tebuconazole

158 Tefluthrin
159 Tembotrione
160 Tetraconazole
161 Tetramethrin
162 Tetraniliprole
163 Thiabendazole
164 Thiram
165 Tioxazafen
166 Triallate
167 Trifloxystrobin
168 Triflusulfuron-methyl
169 Validamycin
170 Zeta-cypermethrin
171 Zinc phosphide
172 Ziram

Appendix II

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 2025 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 this 2025 is as follows:

Total samples	Samples with zero residues	Samples with 1 or more residues below all GB MRLs	Samples with MRL exceedances
327	120	195	12

15 organic samples, each of a different crop, were included. One of these samples contained a residue of a synthetic pesticide, which was investigated and determined to have been produced in line with organic regulations.

3.67% of samples contained MRL exceedances. This is in line with the 2-5% typically found in UK official monitoring, despite disproportionate sampling of higher risk crops. It does

however mark a significant increase from the previous year, where only 5 samples (1.59%) contained an MRL exceedance.

Of the 327 samples tested, 77 were from the UK (inc. 2 from Jersey), 95 from the EU, and 145 from Non-EU/UK countries (10 samples were of unknown origin).

Year on Year summary:

	2020	2021	2022	2023	2024[1]	2025[1]
Number of product samples tested	360	343	305	342	314	327
Samples with zero residues	120 (33%)	143 (42%)	158 (52%)	157 (46%)	131 (42%)	120 (37%)
Sample with 1 residue below GB/EU MRL	89 (25%)	74 (22%)	63 (21%)	55 (16%)	66 (21%)	59 (18%)
Samples with 2 or more residues all below GB/EU MRL	145 (40%)	120 (35%)	83 (27%)	126 (37%)	112 (36%)	136 (42%)
Samples with at least 1 MRL exceedance	6 (1.7%)	5 (1.5%)	1 (0.3%)	4 (1.2%)	5 (1.6%)	12 (3.7%)
Number of pesticide residues detected	614	477	319	500	512	597
Average detections per sample	1.71	1.39	1.05	1.46	1.63	1.83
Number of detections of WHO Ia / Ib pesticides (*)	0 (Ia) 0 (Ib)	0 (Ia); 0 (Ib)	0 (Ia); 0 (Ib)	0 (Ia); 2 (Ib)	0 (Ia); 0 (Ib)	0 (Ia); 4 (Ib)
Number of detections of PAN HHP pesticides (*)	287 (47%)	232 (49%)	146 (46%)	224 (45%)	211 (41%)	238 (40%)

- All years counted from 1st November of the previous year to 31st October of the stated year.
- [1] A change in the testing laboratory at the start of 2024 is expected to have led to an increase in pesticides detected due to the use of a more comprehensive screening program.
- (*) Latest WHO (2019) & PAN HHP (2024) classifications used for all years. This may result in pre-2024 figures for PAN HHP pesticides having changed following re-calculation.
- Exceedances refers to residues above the relevant GB MRL, or for samples before 1st January 2021 the relevant EU MRL.

Statistics

Countries or Origin of Tested Produce:

Country	# of Samples	Average Residues	Country	# of Samples	Average Residues
UK	75	1.5	Ireland	3	1.7
Spain	54	1.7	New Zealand	3	1.7
South Africa	23	2.2	Dom. Rep.	2	0
Morocco	14	3.3	Jersey	2	0
Brazil	13	2.5	Rwanda	2	0.5
Egypt	12	2.9	Tanzania	2	2
Italy	12	2.5	Viet Nam	2	0
Costa Rica	10	1.6	Zambia	2	0
Unknown	10	1.6	Belgium	1	3
India	8	1.3	Belize	1	4
Netherlands	8	1.8	Greece	1	1
Peru	8	1	Guatemala	1	2
China	7	1.4	Honduras	1	3
Kenya	7	1.7	Poland	1	2
Portugal	7	2.4	Puerto Rico	1	1
Chile	6	3.5	Senegal	1	0
Israel	6	1.5	Turkey	1	0
Colombia	5	1.2	Ukraine	1	5
France	4	2	USA	1	1
Germany	4	0.75	Zimbabwe	1	4
Mexico	4	0.75			

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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	7	2	0	5	2.1	71%	
Apricots	3	1	2	0	0.7	0%	
Artichokes (Globe)	1	1	0	0	0	0%	
Asparagus	3	3	0	0	0	0%	
Aubergines	2	1	0	1	1	50%	
Avocados	5	2	1	2	1	40%	
Baby Corn / Sweetcorn	5	5	0	0	0	0%	
Bagged Salads	12	3	3	6	2.3	50%	
Bananas	5	1	0	4	3	80%	
Beans with Pods	6	2	2	2	1	33%	
Beetroot	2	2	0	0	0	0%	
Blackberries	5	0	0	5	3.8	100%	
Blueberries	7	1	0	6	2.7	86%	1
Broad Beans	1	1	0	0	0	0%	
Broccoli	5	4	0	1	0.4	20%	
Brussels Sprouts / Kalettes	3	0	1	2	5	67%	1
Carrots	5	3	1	1	1.2	20%	
Cassava	1	1	0	0	0	0%	
Cauliflower	3	3	0	0	0	0%	
Celeriac	2	0	0	2	4	100%	
Celery	2	0	2	0	1	0%	
Chard	1	0	0	1	2	100%	
Cherries	4	0	0	4	4	100%	
Chestnuts	1	1	0	0	0	0%	
Chilli Peppers	6	2	2	2	1.7	33%	
Chinese Cabbage / Pak Choi	4	2	1	1	0.8	25%	
Choi Sum	2	2	0	0	0	0%	
Coconuts	1	1	0	0	0	0%	
Courgettes	6	2	2	2	1.2	33%	
Cranberries	1	0	1	0	1	0%	
Cucumbers	3	0	1	2	1.7	67%	
Dragon Fruit	1	0	0	1	2	100%	
Eddoes	1	1	0	0	0	0%	
Fennel	1	1	0	0	0	0%	
Figs	4	4	0	0	0	0%	
Garlic	2	2	0	0	0	0%	
Ginger Root	3	2	1	0	0.3	0%	
Grapefruit / Pomelos	5	0	0	5	4	100%	

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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
Head Cabbage	4	1	3	0	0.8	0%	
Herbs	22	5	0	17	3.3	77%	2
Kale / Spring Greens	3	1	1	1	1.3	33%	
Kiwi Fruit	5	2	2	1	0.8	20%	
Kiwiberries	1	1	0	0	0	0%	
Kohlrabi	1	0	1	0	1	0%	
Leeks	2	1	1	0	0.5	0%	
Lemons	5	1	0	4	3.4	80%	
Lettuce (Whole Head)	4	2	0	2	2	50%	
Limes	4	1	0	3	3.8	75%	
Lychees	2	2	0	0	0	0%	
Mandarins (Soft Citrus)	4	0	0	4	5.8	100%	
Mangoes	3	0	2	1	1.3	33%	
Melons / Watermelons	9	3	1	5	1.4	56%	
Mushrooms	4	2	1	1	0.8	25%	
Nashi Pears	1	1	0	0	0	0%	
Nectarines / Peaches	5	2	1	2	1.6	40%	
Okra	3	2	0	1	1	33%	1
Onions	5	4	1	0	0.2	0%	
Oranges	5	1	0	4	2.8	80%	
Papaya	3	1	1	1	2.7	33%	1
Parsnips	3	1	0	2	2.7	67%	
Passion Fruit	3	1	1	1	1	33%	
Pears	5	0	0	5	3.2	100%	
Peas with Pods	7	2	1	4	1.9	57%	2
Persimmon	2	1	0	1	1.5	50%	
Physalis	2	2	0	0	0	0%	
Pineapples	4	0	4	0	1	0%	
Plantains	1	0	0	1	3	100%	1
Plums	5	0	3	2	1.6	40%	
Pomegranates	3	0	1	2	2	67%	
Potatoes	6	4	1	1	0.5	17%	
Prepared Fruit	6	4	0	2	1.3	33%	
Prepared Vegetables	5	1	2	2	2	40%	
Pumpkins / Squashes	5	2	3	0	0.6	0%	
Radishes / Mooli	3	1	2	0	0.7	0%	1
Raspberries	4	2	1	1	1.3	25%	
Rhubarb	2	2	0	0	0	0%	
Samphire	1	0	1	0	1	0%	
Shallots	1	0	0	1	2	100%	
Spring Onions	4	1	0	3	2.3	75%	1
Strawberries	5	0	0	5	3.6	100%	
Swedes	2	2	0	0	0	0%	
Sweet Peppers	4	2	1	1	0.8	25%	

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
Sweet Potatoes	3	1	2	0	0.7	0%	
Table Grapes	6	1	0	5	5.2	83%	
Tomatoes	6	0	2	4	3	67%	
Turmeric Root	1	0	0	1	3	100%	1
Turnips	1	1	0	0	0	0%	
Witloof (Chicory)	1	0	0	1	2	100%	

“Herbs” includes the following crops: Basil (1), Chives (2), Coriander (2), Dill (2), Kaffir lime leaves (1), Lemongrass (1), Mint (2), Oregano (1), Parsley (2), Rosemary (2), Sage (1), Tarragon (2), Thai Basil (1), Thyme (2)

“Bagged Salads” includes the following crops: Baby Leaf Spinach (4), Lamb’s Lettuce (1), Iceberg Lettuce (1), Pea Shoots (1), Rocket (2), Spinach (1), Watercress (2)

Frequency of pesticide residues detected:

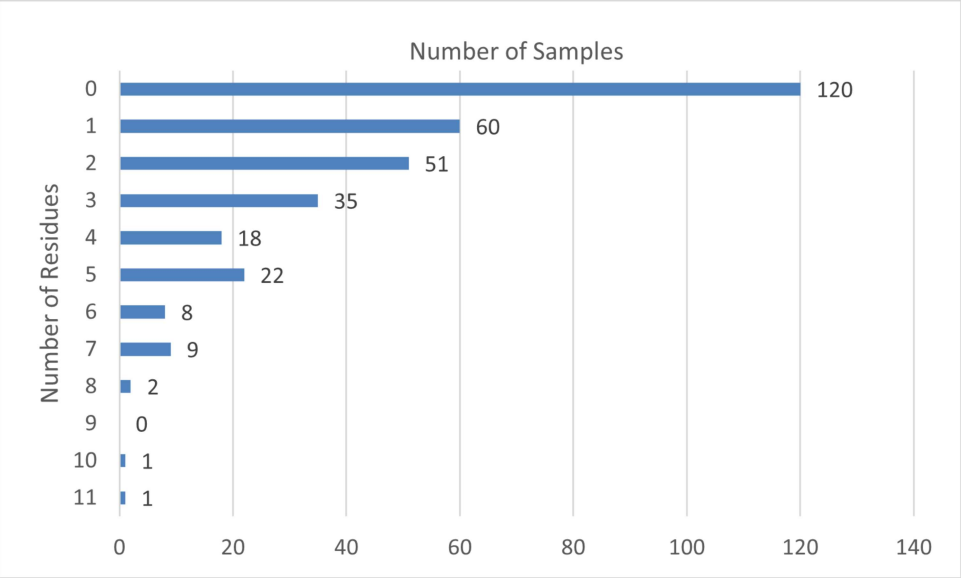
Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Fludioxonil	62	WHO U	PAN HHP	
Azoxystrobin	48	WHO U		
Spirotetramat	33	WHO III		
Boscalid	31	WHO U		
Propamocarb	25	WHO U		
Difenoconazole	23	WHO II		
Imazalil	19	WHO II	PAN HHP	
Pyraclostrobin	19			
Pyrimethanil	18	WHO III		
Fluopyram	16	WHO III		
Thiabendazole	15	WHO III	PAN HHP	
Lambda-cyhalothrin	14	WHO II	PAN HHP	
Chlorantraniliprole	13	WHO U	PAN HHP	
Pyriproxyfen	13	WHO U		
Cyprodinil	12		PAN HHP	
Fenhexamid	12	WHO U	PAN HHP	
Acetamiprid	11	WHO II		
Mandipropamid	11	WHO U		
Copper	10			
Tebuconazole	10	WHO II	PAN HHP	
Dithiocarbamates	9			
Spinosad	9	WHO III	PAN HHP	
Captan	8	WHO U	PAN HHP	
Cyantraniliprole	8	WHO U		
Deltamethrin	6	WHO II	PAN HHP	
Fluxapyroxad	6	WHO III		
Trifloxystrobin	6	WHO U		
Fluopicolide	5	WHO U		
Pendimethalin	5	WHO II	PAN HHP	
Aclonifen	4	WHO U		
Chlorates	4			
Flonicamid	4	WHO II		
Imidacloprid	4	WHO II	PAN HHP	Restricted: Category II
Malathion	4	WHO III	PAN HHP	Restricted: Category II

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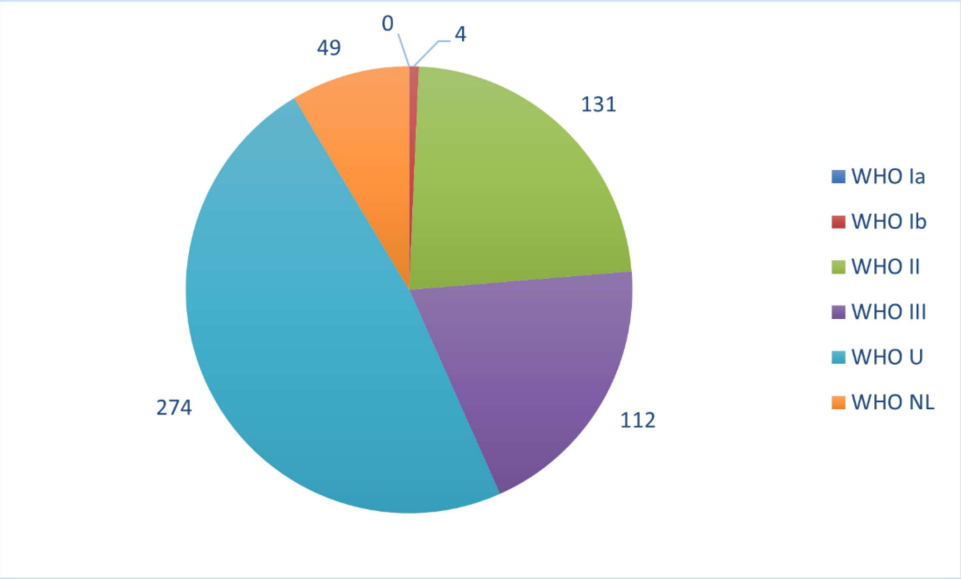
Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Prothioconazole	4	WHO U		
Abamectin	3	WHO Ib	PAN HHP	
Azadirachtin	3			
Bifenthrin	3	WHO II	PAN HHP	
Chlormequat	3			
Cypermethrin	3	WHO II	PAN HHP	
Fosetyl-aluminium	3	WHO U		
Mepiquat	3	WHO II		
Pirimicarb	3	WHO II	PAN HHP	
Prosulfocarb	3	WHO II		
Spinetoram	3	WHO U	PAN HHP	
2,4,6-Trichlorophenol	2			
2-Phenylphenol	2	WHO III		
Bifenazate	2	WHO U		
Carbendazim	2	WHO U	PAN HHP	Restricted: Category II
Chlorpyrifos	2	WHO II	PAN HHP	Restricted: Category I
Clethodim	2			
Cyazofamid	2	WHO U		
Dimethomorph	2	WHO III	PAN HHP	
Dodine	2	WHO II	PAN HHP	
Etofenprox	2	WHO U	PAN HHP	
Flupyradifurone	2	WHO II	PAN HHP	
Flutriafol	2	WHO II		
Maleic hydrazide	2	WHO U		
Metalaxyl	2	WHO II		
Metrafenone	2	WHO U		
Perchlorates	2			
Pyridalyl	2		PAN HHP	
Sulfoxaflor	2	WHO II	PAN HHP	
Triallate	2	WHO III	PAN HHP	
2,4-D	1	WHO II	PAN HHP	
Chlorothalonil	1	WHO U	PAN HHP	Restricted: Category II
Cyflufenamid	1			
Cyromazine	1	WHO III		
DEET	1	WHO III		
Emamectin benzoate	1	WHO II	PAN HHP	
Ethephon	1	WHO III		
Ethirimol	1	WHO U	PAN HHP	
Folpet	1	WHO U	PAN HHP	

Pesticide	Detections	WHO Class	PAN HHP	Restricted List Status
Indoxacarb	1	WHO II	PAN HHP	
Isofetamid	1			
Mefentrifluconazole	1			
Metaldehyde	1	WHO II		
Methomyl	1	WHO Ib	PAN HHP	Restricted: Category II
Methoxyfenozide	1			
Myclobutanil	1	WHO II		
Penconazole	1	WHO III		
Profenofos	1	WHO II	PAN HHP	Restricted: Category II
Propyzamide	1	WHO U		
Proquinazid	1		PAN HHP	
S-Metolachlor	1			
Sodium 5-nitroguaiacolate	1			
Spiromesifen	1			
Tau-fluvalinate	1	WHO III	PAN HHP	
Tebufenpyrad	1	WHO II		
Thiamethoxam	1	WHO II	PAN HHP	Restricted: Category II
Thiophanate-methyl	1	WHO U	PAN HHP	
Zoxamide	1	WHO U		

Number of Detections Per Sample



WHO Classification of Detections



(Excludes Chlorates, Copper, Dithiocarbamates, Perchlorates, and pesticide metabolites)

Residues of WM Morrisons Prohibited Actives: None

Residues of WM Morrisons Restricted – Category I Actives: 2

Residues of WM Morrisons Restricted – Category II Actives: 14