

# MINISTRY OF AGRO INDUSTRY & FOOD SECURITY

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## **Pesticide Residue Analysis for samples collected by Pesticides Regulatory Office for the Month of November 2022**

Total number of samples collected: **123 \***

Number of samples from farm gate level: **30**

Number of samples from supermarkets: **63**

Number of imported samples: **30**

**Number of samples with pesticide residues exceeding MRL: 3**

**Number of samples with pesticide residues not recommended on that crop: 14**

**Number of Improvement Notices issued: 9**

### **1. Results of analysis of samples collected at farm gate level**

<b>SN.</b>	<b>Fruits and Vegetables</b>	<b>Locality</b>	<b>Pesticides detected</b>	<b>Amount (mg/kg)</b>	<b>MRL (mg/kg)</b>
1	Spring Onion	Terre Rouge	NDL	-	-
2	Water Spinach (Brède Soufflette)	Terre Rouge	NDL	-	-
3	Leek	Terre Rouge	NDL	-	-
4	Lettuce	Terre Rouge	NDL	-	-
5	Celery	Terre Rouge	NDL	-	-
6	Thyme	Terre Rouge	NDL	-	-
7	Mint	Terre Rouge	Carbendazim Metalaxyl Thiophanate-methyl	2.04 0.61 9.8	<b>NS</b>
8	Amaranth	Terre Rouge	NDL	-	-
9	Turnip	Terre Rouge	NDL	-	-
10	Lettuce	Terre Rouge	NDL	-	-

11	Lettuce	Gentilly	NDL	-	-
12	Lettuce	Gentilly	NDL	-	-
13	Thyme	Curepipe	<b>Tebuconazole</b>	0.019	<b>NR</b>
14	Mint	Curepipe	Tebuconazole	1.1	<b>NS</b>
15	Parsley	Curepipe	<b>Tebuconazole</b>	0.011	<b>NR</b>
16	Parsley	Curepipe	<b>Tebuconazole</b>	0.034	<b>NR</b>
17	Celery	Curepipe	<b>Tebuconazole</b>	0.061	<b>NR</b>
18	Leek	Curepipe	Tebuconazole	0.031	0.6
19	Fennel	Curepipe	NDL	-	-
20	Lettuce (Rocket)	Curepipe	<b>Tebuconazole</b>	0.011	<b>NR</b>
21	Lettuce	Solferino No 5, Vacoas	NDL	-	-
22	Lettuce	Solferino No 5, Vacoas	<b>Carbendazim</b>	0.011	<b>NR</b>
23	Tomato	Solferino No 5, Vacoas	Cypermethrin Lambda-cyhalothrin	0.094 0.033	0.2 0.3
24	Potato	Solferino No 5, Vacoas	NDL	-	-
25	Lettuce	Solferino No 5, Vacoas	<b>Azoxystrobin</b> <b>Difenoconazole</b> Spirotetramat	1.3 1.3 0.084	<b>NR</b> <b>NR</b> 7
26	Lettuce	St Pierre	NDL	-	-
27	Lettuce	St Pierre	NDL	-	-
28	Lettuce	St Pierre	NDL	-	-
29	Lettuce	St Pierre	NDL	-	-
30	Bottle Gourd	Réduit	NDL	-	-

**2. Results of analysis of samples collected at super markets/markets**

SN.	Fruits and Vegetables	Supermarket	Pesticides detected	Amount (mg/kg)	MRL (mg/kg)
1	Hot Pepper	Forest Side	Chlorantraniliprole	0.012	0.6
2	Ridge-gourd (Pipengaille)	Forest Side	NDL	-	-
3	Zucchini	Forest Side	NDL	-	-
4	Banana	Forest Side	NDL	-	-
5	Chayote	Forest Side	NDL	-	-
6	Bottle-gourd	Forest Side	Cyromazine	0.024	0.4
7	Cabbage	Port-Louis	NDL	-	-
8	Beetroot	Port-Louis	NDL	-	-
9	Watercress	Port-Louis	<b>Boscalid</b> <b>Pyraclostrobin</b> <b>Tebuthiuron</b>	0.048 0.021 0.011	<b>NR</b> <b>NR</b> <b>NR</b>
10	Potato	Port-Louis	NDL	-	-
11	Lettuce	Port-Louis	NDL	-	-
12	Chinese White Cabbage (Brède Baton Blanc)	Port-Louis	NDL	-	-
13	Amaranth	Port-Louis	NDL	-	-
14	Cucumber (Mini)	Grand Bay	Acetamiprid <b>Thiamethoxam</b>	0.010 0.066	0.3 <b>NR</b>
15	English Cucumber	Grand Bay	<b>Thiamethoxam</b>	0.037	<b>NR</b>
16	Zucchini	Grand Bay	Boscalid	0.014	4
17	Eggplant	Grand Bay	NDL	-	-
18	Tomato	Grand Bay	NDL	-	-
19	Tomato	Grand Bay	NDL	-	-

20	Lettuce	Grand Bay	NDL	-	-
21	Papaya	Grand Bay	NDL	-	-
22	Ginger	Grand Bay	NDL	-	-
23	Garlic	Grand Bay	NDL	-	-
24	Pineapple	Grand Bay	<b>Not analysed</b>		
25	Sweet Potato	Grand Bay	NDL	-	-
26	Bell Pepper (Mix)	Grand Bay	Acetamiprid <b>Boscalid</b> <b>Pyraclostrobin</b>	0.023 0.028 0.026	0.3 <b>NR</b> <b>NR</b>
27	Bottle-gourd	Grand Bay	NDL	-	-
28	Squash	Grand Bay	NDL	-	-
29	English Cucumber	St. Paul	NDL	-	-
30	Lettuce	St. Paul	NDL	-	-
31	Watercress	St. Paul	NDL	-	-
32	Bell Pepper (Mix)	St. Paul	Lambda-cyhalothrin	0.022	0.3
33	Watermelon	St. Paul	NDL	-	-
34	Lettuce	Belle Rose	NDL	-	-
35	Lettuce	Belle Rose	NDL	-	-
36	<b>Bell Pepper</b>	<b>Belle Rose</b>	Carbendazim <b>Hexaconazole</b> <b>Thiophanate-methyl</b>	0.040 <b>0.29</b> <b>0.37</b> <b>(Excess)</b>	0.1 <b>0.01</b> <b>0.1</b>
37	Tomato	Belle Rose	Acetamiprid <b>Buprofezin</b>	0.013 0.013	0.5 <b>NR</b>
38	Banana	Belle Rose	NDL	-	-
39	Bottle gourd	Terre Rouge	NDL	-	-

40	Bean	Terre Rouge	NDL	-	-
41	Chinese White Cabbage	Terre Rouge	<b>Cypermethrin</b>	0.049	<b>NR</b>
42	Potato	Trianon	Cyromazine	0.013	0.05
43	Ginger	Trianon	NDL	-	-
44	Tomato	Trianon	NDL	-	-
45	Cherry Tomato	Trianon	NDL	-	-
46	Zucchini	Trianon	NDL	-	-
47	Spring Onion	Riche Terre	NDL	-	-
48	Sweet Potato	Riche Terre	NDL	-	-
49	Turmeric	Riche Terre	NDL	-	-
50	Bell Pepper (Mix)	Riche Terre	Acetamiprid <b>Thiamethoxam</b>	0.090 0.013	0.3 <b>NR</b>
51	Eggplant	Riche Terre	Azoxystrobin	0.011	3
52	Cabbage (Red)	Riche Terre	NDL	-	-
53	Sweet Corn	Riche Terre	NDL	-	-
54	Tomato	Riche Terre	NDL	-	-
55	Tomato	Riche Terre	Cypermethrin Methoxyfenozide	0.12 0.061	0.2 2
56	Carrot	Riche Terre	Lambda-cyhalothrin	0.027	0.05
57	Pepper (Mix)	Goodlands	Azoxystrobin Difenoconazole	0.14 0.13	10 0.6
58	Cabbage	Goodlands	NDL	-	-
59	Water Melon	Goodlands	Carbendazim Metalaxyl	0.010 0.019	0.1 0.2
60	Pineapple	Goodlands	NDL	-	-
61	Bottle-gourd	Goodlands	NDL	-	-

62	Cucumber	Goodlands	Acetamiprid Metalaxyl	0.029 0.012	0.3 0.5
63	Lettuce	Goodlands	Lambda-cyhalothrin	0.033	1

### 3. Results of analysis from imported samples

SN.	Fruits and Vegetables	Pesticides detected	Amount (mg/kg)	MRL (mg/kg)
1	Lemon	Imazalil Pyrimethanil Thiabendazole	2.6 2.7 0.18	15 8 7
2	Apple (Red)	Pyrimethanil	3.7	15
3	Plum (Red)	Cyprodinil	0.14	2
4	Apple (Green)	Chlorantraniliprole	0.020	0.5
5	Apple (Red)	Acetamiprid Pyrimethanil	0.017 1.3	0.8 15
6	Apple (Golden)	NDL	-	-
7	Lemon	Imazalil Pyrimethanil	0.44 4.0	15 8
8	Grapefruit	Imazalil Pyrimethanil	2.1 0.35	5 8
9	Apple (Green)	Acetamiprid	0.015	0.8
10	Mandarin	Imazalil Pyrimethanil Thiabendazole	0.79 1.1 0.28	5 8 7
11	Orange	Imazalil Pyraclostrobin Pyrimethanil Thiabendazole	3.4 0.017 4.1 0.74	8 2 8 7
12	Grapefruit	Imazalil Pyrimethanil	2.3 0.25	5 8
13	<b>Lemon</b>	Azoxystrobin <b>Difenoconazole</b> Imazalil Pyrimethanil Thiabendazole	1.7 <b>1.5 (Excess)</b> 1.5 2.0 0.043	15 <b>0.6</b> 15 8 7
14	Pomelo	Acetamiprid Imazalil Prochloraz	0.011 0.24 0.038	1 5 10
15	Pomelo	Acetamiprid Imazalil Myclobutanil Pyraclostrobin	0.035 0.058 0.013 0.011	1 5 0.01 2
16	Orange	Imazalil Pyrimethanil	2.1 1.0	8 8

		Thiabendazole	0.24	7
17	Lemon	Imazalil Pyrimethanil	4.7 2.1	15 8
18	Lemon	Imazalil Pyrimethanil	2.5 1.7	15 8
19	Apple (Golden)	NDL	-	-
20	Grapes (Red)	Acetamiprid Trifloxystrobin Zoxamide	0.13 0.035 0.014	0.5 3 5
21	Grapes (Red Seedless)	NDL	-	-
22	Grapefruit	Imazalil Pyraclostrobin Pyrimethanil Thiabendazole	0.57 0.022 0.98 0.45	5 2 8 7
23	Sweet Corn	<b>Not analysed</b>		
24	Kiwi	NDL	-	-
25	Apple (Green)	NDL	-	-
26	Grapefruit	Imazalil Pyraclostrobin Pyrimethanil Thiabendazole	1.6 0.018 0.36 1.9	5 2 8 7
27	Orange	Imazalil Pyrimethanil Thiabendazole	1.9 2.1 0.49	8 8 7
28	Mandarin	Imazalil Methoxyfenozide Pyrimethanil Thiabendazole	1.5 0.063 0.017 0.18	5 2 8 7
29	Apple (Red)	Acetamiprid Chlorantraniliprole	0.016 0.025	0.8 0.5
30	<b>Grapes</b>	<b>Benfuracarb</b>  Boscalid Mandipropamid Spirotetramat	<b>0.26</b> <b>(Excess)</b> 0.62 0.027 0.016	<b>0.002</b>  5 2 2

\* 2 Samples not analysed- One sample was rotten and one sample was processed

NB: Source MRL: The Use of Pesticides Act 2018 and Codex Alimentarius

MRL – Maximum Residue Level

NDL – No Detectable Level

NR- Not Recommended on that Crop

NS – Not Specified in the Use of Pesticides Act