


The Laboratory and Enforcement — Working Alliance

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Bureau of Chemical Residue Laboratories



Division of Food Safety
Florida Department of Agriculture and Consumer Services

Florida Pesticide Registration

- Multi-agency review
 - ☐ Toxicity
 - ☐ Environmental Impact
 - ☐ Labeling and Worker Protection
 - ☐ Product Composition
 - ☐ Residues and Tolerances
- Registrations
 - ☐ New Active Ingredients
 - ☐ Significant New Uses
 - ☐ Special Local Needs
 - ☐ Experimental Use Permits
 - ☐ Section 18 Exemptions

Agriculture and Environmental Services

- Inspections
 - ☐ Applicator Training
 - ☐ Pesticide Misuse Investigations
 - ☐ Worker Protection
- Violation Investigations
 - ☐ Review Spray Records
 - ☐ Identify Additional Problems
 - ☐ Provide Alternatives
 - ☐ Conduct Training

Food Safety Division

- Food Safety Inspection
 - ☐ Sanitation & Food Safety Inspectors
- Food Laboratory
 - ☐ Microbiology & BSL-3
 - ☐ Food Ingredients, Labeling, Identity
ICP/MS, FT/IR, Nutrients, Supplements...
- Chemical Residue Laboratory
 - ☐ Trace Level Chemical Analysis

Chemical Residue State Regulatory

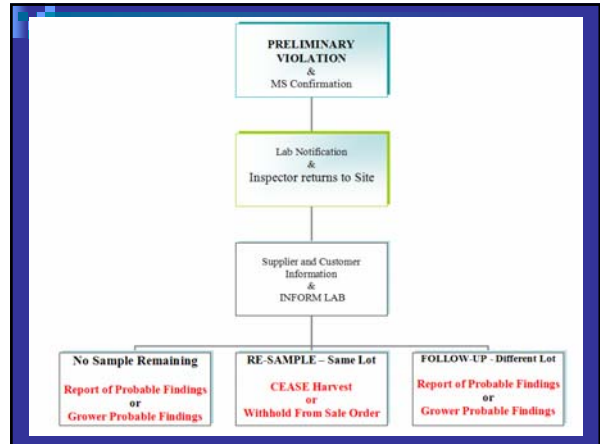
- ☐ Pesticides – Fresh Fruits and Vegetables
- ☐ Antibiotics – Seafood, Honey
- ☐ Consumer Complaints
- Pesticide Data Program
 - ☐ Fresh and Processed Fruits and Vegetables
- Food Emergency Response Network
 - ☐ LC/MS Toxin Screen
 - ☐ GC/MS Toxin Screen
 - ☐ ICP/MS Screen
 - ☐ ELISA Toxin Screen

Regulatory Focus

- Collect product offered for consumption
- Support Florida Agriculture
- Target possible problems
- Conduct follow-up investigations
- Remove violative product from distribution

Florida Regulatory Actions

Notice of Probable Findings
 Cease Harvest or Stop Sale
 Voluntary Destruction
 Notice of Violation
 Warning Letter
 Report to U.S. FDA



Report of Probable Findings

Concentration not reported at this time!

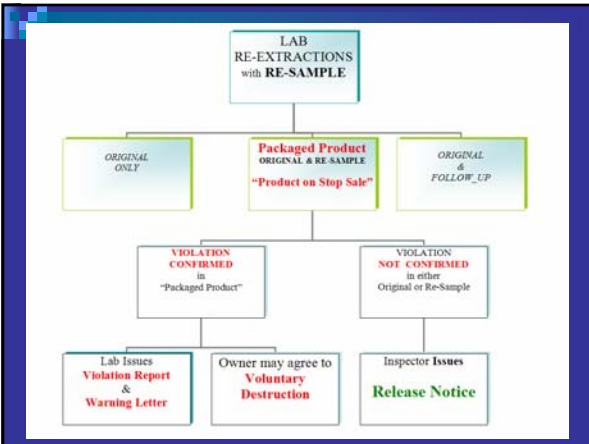
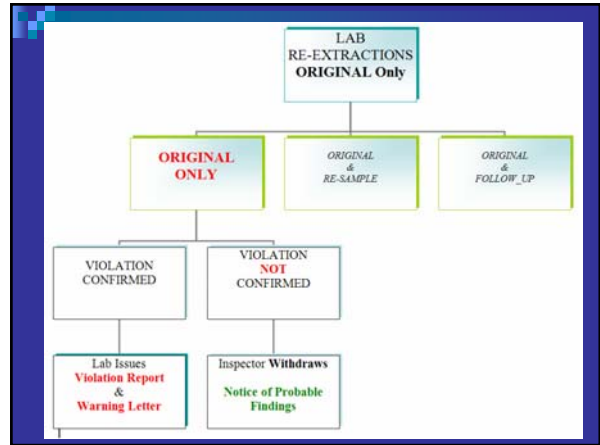
This product has been found to contain, or is suspected of containing, unsafe levels of the chemical(s):

Chemicals:

| | |
|--|--|
| | |
| | |
| | |
| | |

Testing of the product is currently being performed in order to confirm the initial laboratory findings. The final laboratory report will be issued after all analyses and review, have been completed.

This Report itself does not constitute agency action against you, but is provided to give you notification of the Department's initial laboratory test results.



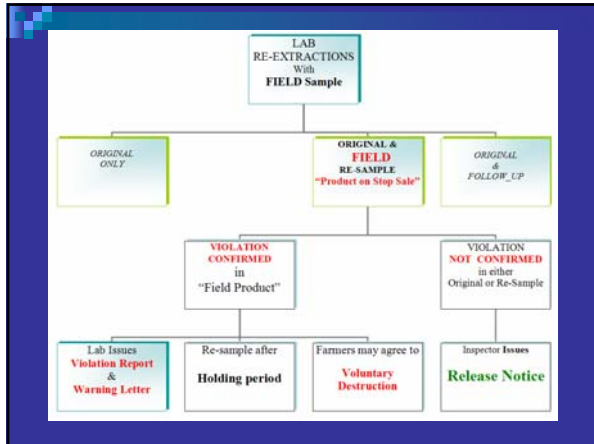
Stop Sale

Cease Harvesting / Withhold from Sale Order

This product has been found to contain, or is suspected of containing, unsafe levels of the chemical/chemicals:

| | |
|--|--|
| | |
| | |

WARNING: Removal or disposal of product ordered withheld from sale or harvest is unlawful and punishable under the applicable law.



Voluntary Destruction Report of Adulterated Product

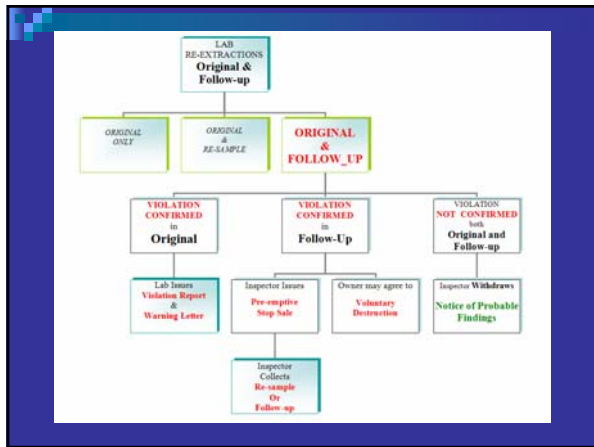
Under the Florida Law, Section 500.10(1)(c) F.S., the following product is deemed adulterated. The product contains an illegal residue and should be destroyed.

Product: _____ Inspector Sample No. _____

Location of product: _____

Date Collected: _____ Analysis Start Date: _____

| Residue Found | Amount Found | Established Tolerance or Guideline |
|---------------|--------------|------------------------------------|
| | | |
| | | |



Violation Report

| PESTICIDE FOUND | AMOUNT (PPM) | DISPOSITION | TOLERANCE (PPM) |
|-----------------|--------------|--------------|-----------------|
| IMAZALIL | 1.0000 | No Tolerance | NONE |

CONCLUSION: 02 Adulterated

SAMPLE COMMENTS

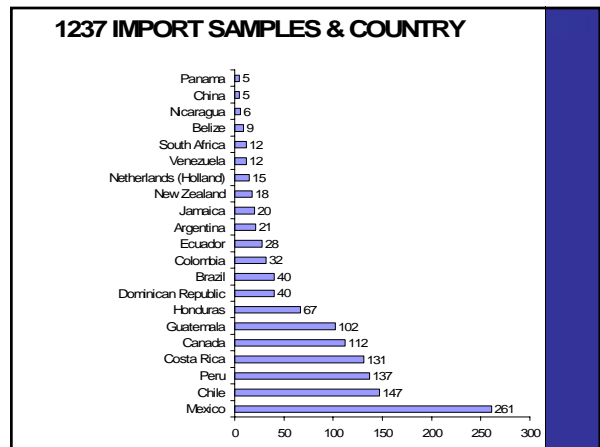
IMAZALIL 02b In violation of Florida Statute Chapter 500, Section 10(1)(c). I.e. there is no established tolerance.

Pesticides in Fruits & Vegetables

Samples collected throughout Florida
Shipped Overnight to Tallahassee

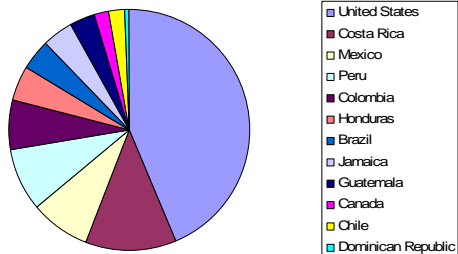
Regulatory Samples: 2002 to 2005

7092 raw fruits and vegetables for pesticides
344 seafoods for antibiotics
45 honey for pesticides and/or antibiotics



56% of Violations were Imports

Quantitative No Tolerance or Over Tolerance Findings



7% Import Samples Violative!

| | | |
|-----------------|---------------|----------------|
| 17-Basil | 2 -Thyme | 1 -Banana |
| 14-Malanga | 2 -Peaches | 1 - Chayote |
| 7 -Yams | 2 -Mint | 1 - Cucumber |
| 5 -Rosemary | 2 -Lettuce | 1 - Ginger |
| 5 -Mangoes | 2 -Carrots | 1 - Grapes |
| 4 -Melons | 1 -Tomato | 1 - Limes |
| 3 -Papayas | 1 -Squash | 1 - Snow Peas |
| 3 -Bell Peppers | 1 -Plantain | 1 -Radish Tops |
| 3 -Eggplant | 1 -Pineapples | |

1% U.S. Samples Violative!

| | | |
|-----------------|-------------|-------------|
| 11-Parsley | 2 -Cilantro | 1 -Lettuce |
| 8 -Strawberries | 2 -Eggplant | 1 -Lotus |
| 5 -Okra | 2 -Guavas | 1 -Mamey |
| 4 -Basil | 2 -Oranges | 1 -Mustard |
| 3 -Cantaloupe | 2 -Radishes | 1 -Peach |
| 3 -Cucumbers | 1 -Cabbage | 1 -Romaine |
| 3 -Potatoes | 1 -Carrots | 1 -Zucchini |
| 4 -Squash | 1 -Escarole | |
| 2 -Bok Choy | 1 -Kale | |

31% Import Violations - Herbs

Columbia, Mexico, Peru

26 of 83 import violations were herbs

- α Basil, Rosemary, Thyme, Mint
- α 9 - Chlorpyrifos (0.14 – 3.8 ppm)
Over Food Handling Tolerance
- α No Tolerance Violations – 19 different pesticides
14-cypermethrin, 7 chlorothalonil, 6-dimethoate...

No Tolerance Violations in Herb Imports

| | | |
|--------------------------------|----------------------------|----------------------------|
| Benomyl (0.098-38) | Folpet (1.3) | Methomyl (0.073 – 0.33) |
| Carbofuran (0.47) | Imidacloprid (0.14-1.6) | PCNB (0.026) |
| Chlorothalonil (0.65-2.2) | Iprodione (0.33-7.4) | Permethrin (0.31-1.0) |
| Cypermethrin (0.25-4.7) | Linuron (0.1) | Tebuconazole (0.52) |
| Dimethoate total (0.06-2.0) | Malathion (0.22) | |

27% U.S. Violations - Herbs

- α 17 of 64 U.S. violations were herbs
- α Basil, Cilantro, Parsley
- α 4 - Linuron – over tolerance in parsley
(0.36 – 2.4 ppm)
- α 8 - Atrazine – no tolerance

No Tolerance Violations in U.S. Herbs



| | | |
|--------------------------|---------------------------|------------------------|
| Acephate (0.12) | Chlorothalonil (0.023) | OPP (0.032) |
| Atrazine (0.067-0.18) | Diazinon (0.05-0.098) | Thiabendazole (1.1) |
| Carbaryl (0.078-1.4) | | |

25% Import Violations – Malanga and Yams

Costa Rica, Jamaica

21 of 83 import violations

- α 1 - Chlorpyrifos (0.61 ppm)
Over Food Handling Tolerance
- α No Tolerance Violations
Benomyl (1.8 – 15 ppm)
Imazalil (0.57 ppm)
OPP (0.032 - 0.042 ppm)
Thiabendazole (0.42 -22 ppm)
Triadimefon (0.52 – 6.0 ppm)





10% Import Violations – Prochloraz

Brazil, Peru

8 of 83 import violations

No U.S. Tolerances



Prochloraz Violations

- α 5 – Mangoes (0.012 – 0.056 ppm)
- α 3 – Papaya (0.067 – 0.58 ppm)

13% Import Violations – Methomyl


South America

11 of 83 import violations

4 Basil - No Tolerance Violations (0.073 - 0.33 ppm)

7 Over Tolerance Violations

- α 3 – Eggplant (0.23 – 0.72 ppm)
- α 2 – Lettuce (6.3 – 7.2 ppm)
- α 1 – Cantaloupe (0.38 ppm)
- α 1 - Summer Squash (0.55 ppm)



Import Violations – Snow Peas



Over Tolerance Acephate and Methamidophos

Cooperative effort with the U.S. FDA

Florida can issue a Stop Sale

FDA can issue an import alert and detention

FDA can notify Florida of product arrival



Imazalil and Tebuconazole in Pineapple from Guatemala

April 26: Pineapple collected

May 3: Violation reported

Stop Sale and Re-sample Lot #1 (41 boxes)

May 5: Lot #2 collected at supplier (75 boxes)

May 10: Destroy Lots #1 & 2

May 10: Lot #3 Stop Sale (\$7,150)

Lot #4 Stop Sale (\$5,550)

May 15: Product returned

Questions?

