Action Plan for Pesticide Residues

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Background

• Japan informed us the presence of pesticide residues in coffee beans from Latin American producers.
• New Japanese regulations on pesticide residues are implemented (May-06).
• Guatemala develops the Action Plan for Pesticide Residues.

Action Plan

Monitoring and Analysis
- Coffee samples in farms, warehouses and ports.

Training
- Good Agricultural Practices GAP, directed to producers and managers of coffee mills.
- Good Management Practices GMP directed to exporters.

Technical visit to Japan
- Meeting with Japanese authorities.
- Understand the import and monitoring procedure.
- Visit the quarantine area at the port.

Implementation Action Plan of Monitoring
- 100% Monitoring of pesticide residues in exports to Japan, during the 3rd quarter 2006 (July-Sep).

Monitoring Sites

Production Areas, Mills and Warehouses
Warehouse Exports
Port

Sampling in Warehouses

- Sampling in Warehouses
- Parchment Coffee
- Green Coffee

Pesticides analyzed

<table>
<thead>
<tr>
<th>ORGANOPHOSFORATES</th>
<th>MATERIALS FORMED</th>
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<td>B-HCH</td>
<td>pp-DDT</td>
<td>pp-DDD</td>
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<td>Acefate</td>
<td>Dieldrin</td>
<td>Dieldrin</td>
<td>Hexachlorobenzene</td>
<td>Endrin</td>
</tr>
</tbody>
</table>

ORGANOCLORADOS

- D-D-D (Dieldrin)
- Aldrin
- Methyl Chloride
- Chlordane
- Dieldrin
- Endosulfan sulfate
- Methoxychloride
- Chlorpyrifos

PIRETROIDES

- Acephate
- Metacetate
- BHC (A-HCH)
- Dieldrin
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Analysis in Inlasa Laboratory, Guatemala

- 41 different pesticides.
- 339 samples collected in exporters' warehouses and ports.
- RESIDUES WERE NOT DETECTED above the sensitivity of the method of analysis.

Analysis in Hill Laboratory, New Zealand

- 232 different pesticides
- 30 collected samples in warehouses of exporters.
- RESIDUES WERE NOT DETECTED above the sensitivity of the method of analysis.

Training and Seminars

Technical visit to Japan

Action Plan July-September 2006

100 % Sampling

COFFEE SAMPLING IN CONTAINERS AT PORT

- Opening of the container.
- Marks, lot number, container number, shipping line, are verified.
- A representative sample of 1 kilo of coffee is obtained.
- The container is closed and the shipping company places the new customhouse marker.
COFFEE SAMPLING IN WAREHOUSE AT PORT

- Marks, lot number and amount of bags is verified
- A representative sample of 1 kilo of coffee is obtained

TESTING RESULTS OF AGROCHEMICAL RESIDUES IN COFFEE (Guatemala)

<table>
<thead>
<tr>
<th>Location</th>
<th>Samples No.</th>
<th>Laboratory</th>
<th># Agrochemicals Analyzed Per Sample</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm Warehouse</td>
<td>20</td>
<td>Inlasa (Guatemala)</td>
<td>41</td>
<td>N. D.*</td>
</tr>
<tr>
<td>Exporters Warehouse</td>
<td>11</td>
<td>Inlasa</td>
<td>41</td>
<td>N. D.*</td>
</tr>
<tr>
<td></td>
<td>30 (Pilot Plan)</td>
<td>IL Laboratory, New Zealand</td>
<td>22</td>
<td>N. D.*</td>
</tr>
<tr>
<td>Container (at Port)</td>
<td>30</td>
<td>Inlasa</td>
<td>41</td>
<td>N. D.*</td>
</tr>
</tbody>
</table>

* N. D. = Not Determined = absent or inferior to detection laboratory limit

- 288 total sampling performed at July/September 2006.

Conclusions of Action Plan

- Pesticide residues were not detected in the 288 lots (destination Japan), sampled from July to September 2006.
- These results and the previous study results, guide us to monitoring the raw material (parchment coffee and green coffee) in the exporter’s warehouses.
- Continuous training programs to producers, intermediaries and exporters.

Monitoring Plan for 2006/07

- Monitoring of the raw material on 100% of the exporter’s warehouse, coffee to any destination
- Random checks of coffee containers

Monitoring Plan for 2006-2007

- The quality and innocuousness of Guatemalan Coffee, are a permanent commitment.