



Global Container Management CropLife International

Presentation to TPSA
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Presentation Outline

1. CropLife International – global CM program
2. Canada – C M Branding
3. Canada – stewardship update



CropLife International

CropLife International Brussels, Belgium

**The industry trade association funded
by major technology developers in
chemistry and biotech**





Stewardship Vision

To be recognized as a responsible industry promoting effective stewardship programs

Stewardship is a key pillar in CLI's activities





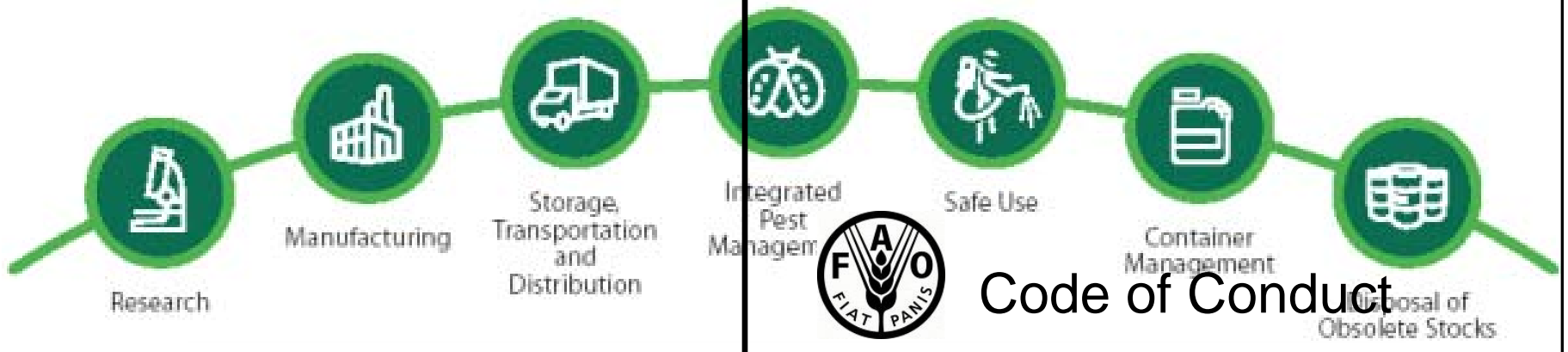
CropLife International

Four key stewardship areas:

- 1. Container Management**
- 2. IPM/Responsible Care**
- 3. Obsolete Stocks**
- 4. FAO Code of Conduct**



The four pillars of our Stewardship strategy





CropLife International Container Management

Team

Industry

Associations

- ECPA
- CropLife Africa
- CropLife Asia
- CropLife Lat. America
- CropLife Int'l
- CropLife Canada

CropLife Members

- BASF
- Bayer
- Monsanto
- Syngenta
- Dow
- DuPont



Country Managers 29 Countries

.....plus country managers, for example:

- ACRC – U.S.A.
- RIGK – Germany
 - Inpev – Brazil
- Agsafe – Australia
-plus 25 others



Container Management Goals - 2010

1. Develop CM programs in key countries
2. Provide guidance & support for programs
3. Establish information flow for all countries
4. Seek & implement cost reduction opportunities
5. Base all decisions, program components, & end use applications on solid technical science
6. Work with governments & other country stakeholders to achieve these goals (eg. consider promotion of mandatory regulations as a means to involve all stakeholders)



Nine Key Objectives for 2008

1. Cost reduction – identify & analyze regional cost differences (eg USA, AU, Canada)
2. Position paper/guidance on process & criteria for establishing program in new countries



Objectives for 2008

3. Information sharing – three dbases on the CLI website:

A Country programs:

- Costs (financial template)
- Return rate

B Technical information, incl analytical data

C Position papers



Objectives for 2008

4. Effective (triple/pressure) rinsing – communications program
5. Classification (rinsed granulated plastic) – as non-hazardous
6. Recycling (more!) vs. incineration (less!)
7. Global communications & branding

Objectives for 2008



Pilot Programs – New Countries

- Asia:
 - China (Sichuan province)
 - Malaysia
- Africa:
 - Mauritius
 - Madagascar
 - Ethiopia
 - South Africa
 - Namibia
 - Uganda
 - Malawi
 - Kenya
 - Tanzania & Zambia – discussions
- Eastern Europe: 5 countries



Global CM Objectives

9. Technical underpinnings for all components of the Container Management program





Operational Review of the CropLife Canada Container Management Program

Summary of Findings and Recommendations
January 9, 2008



GrowCanada  The Team. Infinite Solutions.


Stantec
stewardshipfirst™
working responsibly to protect



Recommendations

1. Continue to influence improved rinse rate (goal of 80% in 2008)

- Encourage proper signage at collection sites
- Continue to provide instructions to growers and dealers

2. Influence reduction of risk of HSE exposure at collection sites

- Encourage conversion of unsupervised sites to supervised or dealer sites
- Develop national standards that include storage of containers in bags (or provide shelter), signage, restricted access
- Encourage key stakeholders (such as regulatory bodies and rural municipalities to adopt national standards)
- Audit sites to identify ones that pose unacceptable risk



Recommendations

3. **Influence reduction in risk of contractor exposure during collection, shredding, and washing operations:**
 - Provide safe work practice guide and possibly training program material for handling CMP material, appropriate PPE, and personal hygiene
 - Require contractors to adopt guide and training program or provide own with equivalent or greater level of safety or proof that risk has been assessed for site/operation and shown to be low
 - Require medical monitoring for all workers who come into contact with CMP material
 - Conduct scheduled audits of contractual terms



Recommendations

4. **Require assessment of risk of release to environment prior to use of new processing (cleaning) facilities**
 - For operations that produce process water, require evidence that receiving environment can assimilate CMP process water or require appropriate disposal
 - For operations where stormwater can come into contact with containers, shreds, or product, require evidence that receiving environment can assimilate CMP run-off or require stormwater management /pollution prevention plan
 - Ensure proper characterization and appropriate disposal of all waste streams



Recommendations

5. **Require monitoring and control of releases to environment for existing processing (cleaning) facilities**
 - For operations where water is discharged into surface water body, require scheduled pesticide and toxicity testing
 - Require scheduled monitoring of quality of waste streams produced from processing of CMP material
 - Require 3rd party environmental compliance audits of processing facilities on a set basis
6. **Ensure CM Plastic is only used to produce “approved” end products**
 - Conduct scheduled audits of contractual terms
7. **Require assessment of HSE risk for all new end products**



Key Performance Indicators (KPI's)

External:

1. Number of countries with a program
2. Average % return rate for countries with a program



Canada

Program Branding





Empty Pesticide Container Recycling Program



It matters for your farm.

GROW Canada
WHERE INNOVATION TAKES ROOT

stewardshipfirst™
working responsibly to protect
people and the environment



return

YOUR CONTAINERS



It's Easy, and EVERY return makes a difference.

Returning your empty pesticide containers is good for your health and for the environment. Just **triple rinse** your pesticide containers, **remove the paper booklet**, and **return** them to your local collection site.



Contact your local collection site or visit www.croplife.ca
Brought to you by CropLife Canada



FOR YOUR FARM, YOUR FAMILY, YOUR HEALTH AND YOUR ENVIRONMENT

return - DON'T BURN

It's easy, and EVERY return makes a difference.

Burning plastic is bad for your health and bad for the environment. But there is a clean alternative. Just **triple rinse** your pesticide containers, completely **remove the paper booklet**, and **return** them to your local collection site for recycling.



For more information, contact your local collection site or visit www.croplife.ca





Container Management – Strategic Review

- Commencing to look at options for the Container management business:
 - “as is”
 - Stand-alone “not-for-profit”
 - Stand-alone “for profit” (incl other plastic?)
- Significant trend to drums/totes
- Good models in U.S.A., Europe and Brazil
- Philosophy of one program for all registrants (& containers) in Canada



Behind-the-farm-Gate

The next wave of
Stewardship





- CropLife envisions an enhanced focus on lifecycle stewardship at the farm level in the future.



Future of Stewardship

The next wave of stewardship...

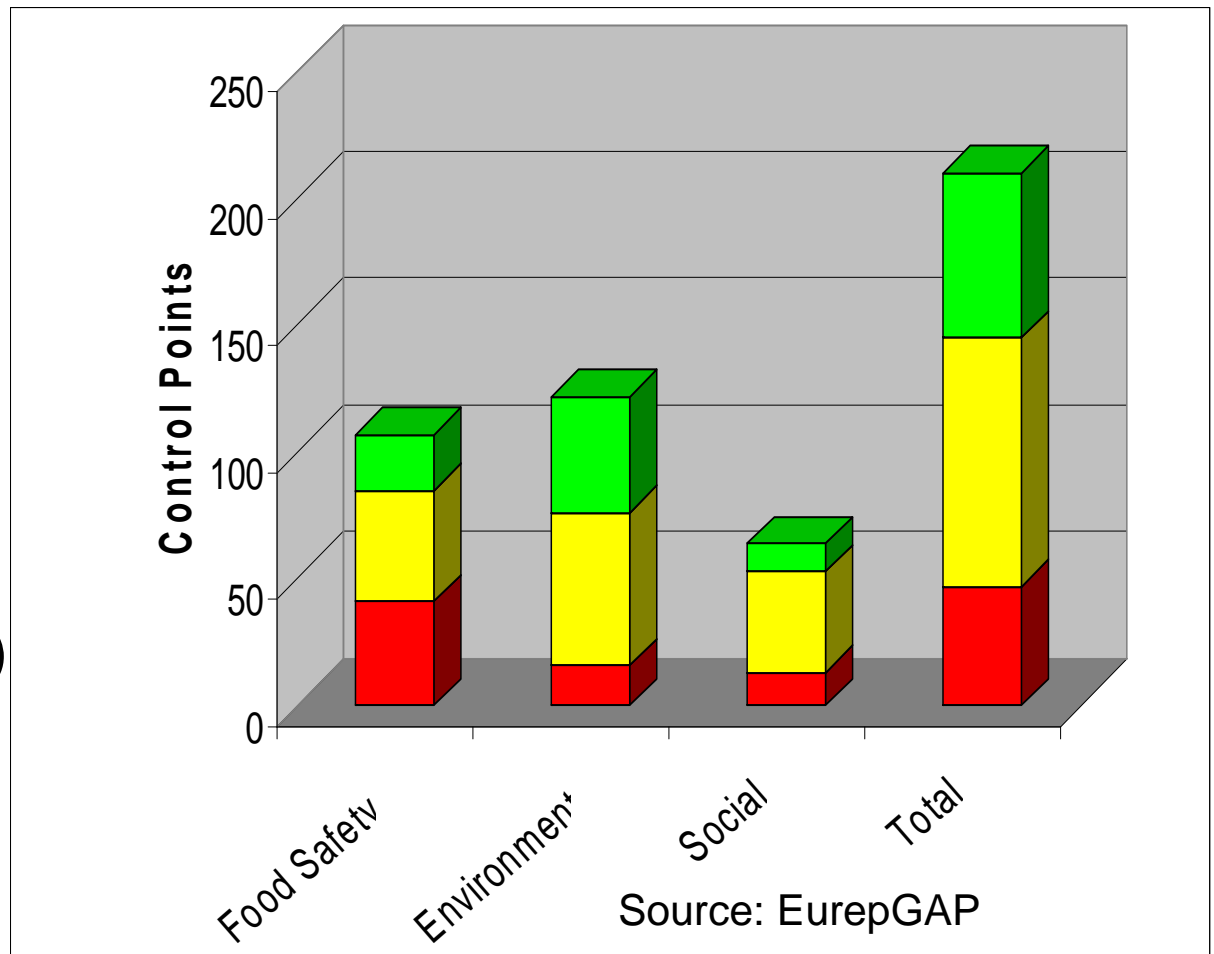
- Producers being required to satisfy a wide range of “voluntary” standards to gain access to markets.
- Schemes incorporating food safety, environmental compliance, health attributes and social/ethical responsibilities.
- Move to on-farm auditing in compliance with assurance standards (HACCP, ISO, etc).
- Long term emergence of “certified farms”



Scope of EurepGAP Standards

Control points and compliance criteria

- 200 specific control points
- Encompass food safety, environmental & social components
- Major (100% compliance)
- Minor (95% compliance)
- Recommended

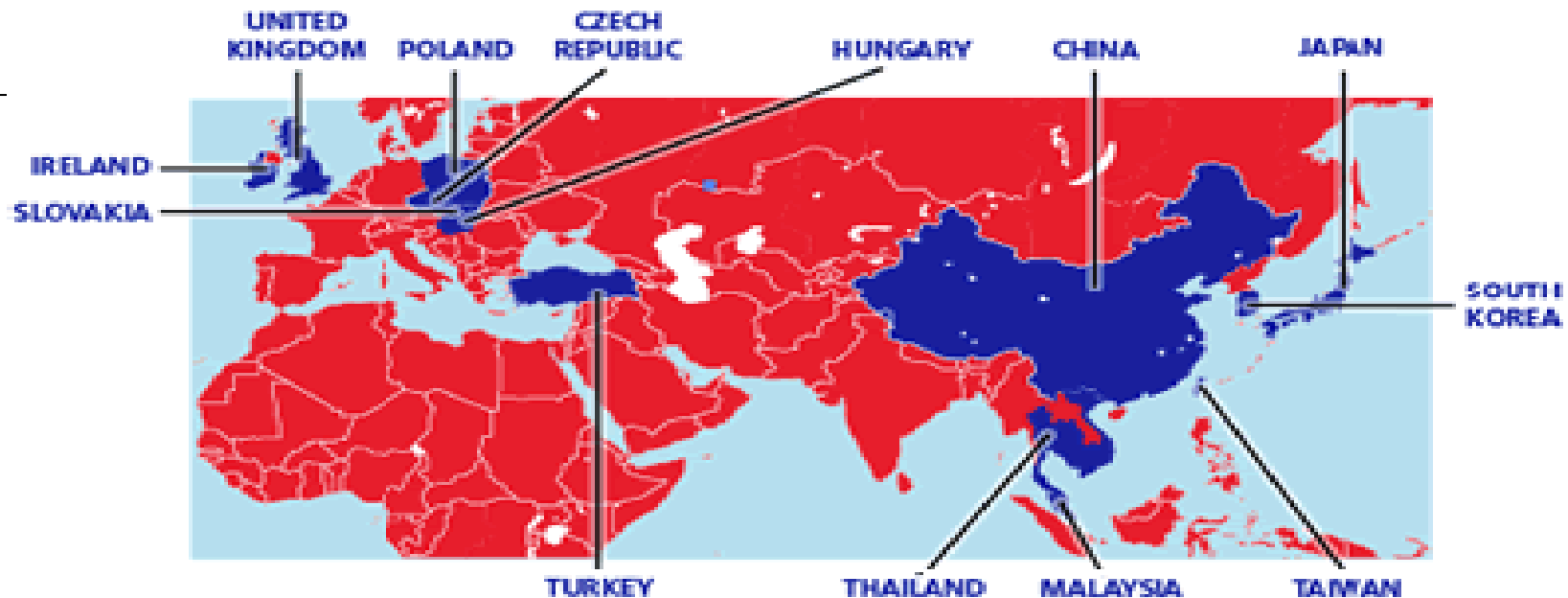


Retail and Foodservice Members



Tesco

- 2nd largest retailer in Europe, 4th largest worldwide
- \$71bn sales (2005)
- Over 2,500 stores in 13 countries
- Market leader in 6 countries



Supplier Members





Nature's Choice - scope

7 key areas:

- Rational use of crop protection products - controlled list of pesticides*
- Rational use of fertilisers and manures
- Protection of human health
- Pollution prevention
- Efficient use of energy, water and other natural resources
- Recycling and re-use of material
- Wildlife and landscape conservation and enhancement



Certified farms

- What will be involved?
 - IPM practices (right product, right rate, right time, etc.)
 - Sprayer calibration
 - Good environmental practices (eg. training, on-farm storage, containers, obsolete stocks, etc.)
 - Record keeping
 - On farm audits/certification granted
 - Canada – work with the “Environmental Farm Plans” & other stakeholders
 - Will drive container recycling/obstocks coll'n



Thank You

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stewardshipfirst[™]
working responsibly to protect
people and the environment





Container Program Controls

CROPLIFE CANADA		FARM →		COLLECTION → DEPOT		FIELD → CONTRACTOR		TRANSPORTATION →		PROCESSOR →		RECYCLER END-USE PRODUCT
Support the Container Return Program		Users of Product		Dealer / Region		Collect, Shred, Bag		Transport CropLife Material		Prepare for sale		Produce Products
<i>Objective: Ensure Container Return (small and one-way bulk) remains safe, efficient & revenue neutral</i>		<i>Objective: 80 % Return 90 % Containers meet criteria</i>		<i>Objective: Zero HSE Impacts</i>		<i>Objective: Zero HSE Impacts</i>		<i>Objective: Legal compliance</i>		<i>Objective: Zero Environmental Impacts</i>		<i>Objective: Zero HSE Impacts on Users or environment</i>
CONTROL	Execute Target	CONTROL	Execute Target	CONTROL	Execute Target	CONTROL	Execute Target	CONTROL	Execute Target		Execute Target	<input checked="" type="checkbox"/> Tested & Approved – formalizing process
<input checked="" type="checkbox"/> Program Control Document	Draft Mar 20	<input checked="" type="checkbox"/> Farm communication		<input checked="" type="checkbox"/> Annual Outreach		<input type="checkbox"/> Pre-Approval Process	Mar 20	<input type="checkbox"/> Best Practices Guide	Include TDGA Mar 20	<input type="checkbox"/> Pre-Approval Process	Mar 20	
		<input checked="" type="checkbox"/> Dealer communication		<input checked="" type="checkbox"/> Container condition checks		<input checked="" type="checkbox"/> Contract	Revise Mar 20			<input checked="" type="checkbox"/> Contract – under revision	Revise Mar 20	
		<input checked="" type="checkbox"/> GROU communication		<input type="checkbox"/> Site Inspection Checklist	Draft Mar 20	<input checked="" type="checkbox"/> Insurance				<input checked="" type="checkbox"/> Insurance		
				<input type="checkbox"/> HSE Standard	Draft Mar 20	<input type="checkbox"/> HSE Standard	Draft Mar 20			<input type="checkbox"/> Environmental Standard	Contract Mar 20	
				<input checked="" type="checkbox"/> AWSA ??		<input type="checkbox"/> Annual Contract Review Audit	Mar 20			<input type="checkbox"/> Annual Contract Review Audit	Mar 20	
						<input type="checkbox"/> Best Practices Guide	WIP Mar 20			<input type="checkbox"/> Best Practices Guide	WIP Mar 20	
										<input type="checkbox"/> Traceability – Confirmation of final disposition of CropLife material	Contract Mar 20	





Nature's Choice Code of Practice

- Launched in 1992 and further strengthened in 2004
- Aim: To ensure high environmental standards of production
- Governed by committee of suppliers, independent academic, an auditor and Tesco Managers
- Applies to all fruit, vegetables and salad suppliers to UK market
 - Aim for 100% suppliers to comply by 2007
 - Over 7,600 farms in 41 countries are currently registered
 - International operations require EurepGAP certification
- Recently moved to independent certification
 - 3,400 independent audits so far undertaken in 60 countries



Synopsis

- Far reaching changes are taking place throughout the agricultural value chain, from production farther up/down.
- The food industry is facing new consumer/societal preferences:
 - Food that is Safe and Healthy (assurances),
 - Production methods that are environmentally sustainable,
 - Social fairness, equity and responsibility.