



# **CropLife International Container Management**

**TPSA, Albuquerque, N.M.  
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**Cam Davreux  
CropLife Canada**



# Committee Members (members and regions)

## **Member Companies:**

- Detlef Doehnert – BASF
- Franz-Peter Schuller – Bayer CropScience
- John Tanghe – Monsanto
- Tim Cotter – Syngenta
- Leen Verhoeven - Crompton
- Laurent Dionet – Dow
- Charles Terry – DuPont

## **Regions:**

- Agata Zagorska – ECPA
- Les Hillowitz – CropLife Africa
- Martin Gibson – CropLife Asia
- Dirk Epp – CropLife LA
- Keith Jones – CLI
- Allan Noe – CLA
- Cam Davreux – CropLife Canada



# CLI Container Management Goals / Vision:

**“To have safe and responsible  
management of empty, cleaned  
pesticide containers worldwide”**

- 1. Develop CM programs in key countries**
- 2. Provide management guidance & support for pilot & existing 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/international stakeholders to achieve these goals**



# Global Container Management Background & Summary on “What We’re All About”

- Major programs underway in 29 countries
- Globally a significant cost to the industry – over \$39 million US\$ per year.
- Pilot programs underway in 19 countries
- KPI objective to reduce costs per kilo of plastic recovered.
- Considerable efficiencies in sharing global experience, technical knowledge & costs
- Mitigation of program’s health, safety & environmental risk



# Specific Objectives for 2008

- 1. Cost comparison/cost reduction**
- 2. Info sharing – 3 databases (Financial, Technical, Policy)**
- 3. Communication of effective 3x rinsing**
- 4. Non-hazardous classification of plastic**
- 5. Recycling vs. incineration**
- 6. Global communications & branding**
- 7. “Roadmap” for entering new countries – guidance & assistance for “pilot” programs**
- 8. Initiate technical underpinnings – health, safety and environment**

## 1. Program Costs:

Comparing regional costs & seeking cost reductions:

- Europe
- Latin America
- US/Canada/Australia
- Global

<b>CLI CMPT – KPI's</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
<b>Total Global Program Costs</b> (US \$ millions)	\$36.4	\$36.6	\$39.3
<b>Number of countries with program</b>			
Mature	22	26	29
Pilot Programs	NA	NA	19
<b>Average Costs per Kg:</b> (primary package) excluding pilots			
Europe	\$1.74	\$1.65	\$1.58
Latin America	\$1.14	\$1.04	\$0.83
US/Canada	\$1.21	\$1.21	\$1.18
<b>Global</b>	<b>\$1.32</b>	<b>\$1.24</b>	<b>\$1.11</b>
Tonnes Collected Globally	27,459kg	29,355kg	35,332kg



## 2. Information Sharing:

- 3 databases on CLI website:
  - Financial & other data: countries, costs, return rates etc.
  - Technical information/studies (eg analytical data)
  - Position papers (eg “Roadmap” for new countries)
- Everyone needs to be familiar with db access & use

## 3. Effective 3x (or pressure) Rinsing

- Progress – consistent message globally
- Will use of CLI communications resources
- Resource for all countries
- Messaging for developed & developing world
- Want to work with TPSA – consistent messaging

## 4. Non-hazardous classification of plastic:

- Good progress – in 2008 targeted Portugal, Spain, Romania, France, Canada
- Success in three countries:
  - France – material formerly going to a special waste incinerator now available for recycling (savings not yet quantified)
  - Romania (earlier classified with nuclear waste) – pilot program – plastic available for recycling.
  - Canada – now de-classified & non-hazardous
- Ongoing work – savings to be quantified

## 5. **Recycling vs. Incineration:**

- 2008 program will recycle estimate 4,800 tonnes in Europe
- Revenue generation estimated to be \$1.5 million as a cost offset to the program.
- End use applications – have developed list of approved applications for recycled plastic
- Audit for confirmation of end use
- Canada – 100% recycled. This generates from \$0.5 million in sales of plastic (a cost reduction to the program)
- (Note: significant price declines for recycling plastic over past four months)

## 6. Global Communications & Branding:

- Opportunity to position CM program as industry responsible & environmentally friendly
- Reduction of industry carbon footprint – for example:
  - *1,000 tons of plastic recycled = 3,850 barrels of oil saved*
  - *1000 tons of plastic recycled = 310 cars removed from the highways*
  - *1,000 tons of plastic recycled = saving of 51.4 billion BTU's of energy (vs. the use of virgin plastic)*
  - *1,000 tons of plastic burnt on the farm = 30,000 pounds (15 tons) of air pollution*
- Considering “Clean Farms” logo as option for use globally

# CleanFARMS

EMPTY PESTICIDE CONTAINER RECYCLING PROGRAM

## Every return makes a difference...

and – It won't cost you a thing!

**rinse**

Pressure rinse or triple  
rinse your pesticide  
containers

**remove**

Completely remove  
the paper booklet  
from your pesticide  
containers

**return**

Return **clean, empty**  
containers with **no**  
**paper booklet** to  
your collection site



**CropLife**  
CANADA

stewardshipfirst™

## 7. Pilot Programs:

- Three regions: Asia, Africa, Eastern Europe
- “Roadmap” completed as guidance re initiation of new programs
- Modest financial start-up assistance from CLI



# New Programs Policy (from “Roadmap”)

- New country programs – CMPT advised (or consulted beforehand)?
- Criteria assessed?
- Stakeholders identified?
- Business plan, including initial budgets (3 years)?
- Financing secured?
- Collection & end use applications identified?
- Internal CMPT point person?


















## 8. Technical Underpinnings

- Health, safety & environmental issues *trump all aspects of the CM program*
- Science basis for all program elements:
  - Collection sites
  - Field shredding, bagging
  - Transport
  - Plastic processing/cleaning
  - Recycling to appropriate products
- Ongoing work & communication with country managers





# Summary of 2008 Objectives Achieved

Objectives	Status
Cost Comparison/cost reduction	  
Info sharing – 3 databases	 
Communication of effective 3x rinsing	 
Non-hazardous classification of plastic	 
Recycling vs. incineration	 
Global communications & branding	
“Roadmap” for entering new countries – guidance & assistance for “pilot” programs	  
Initiate technical underpinnings – health, safety and environment	 



# Objectives for 2009

1. Continued cost reduction (cost per kg)
2. Development & roll-out of communications materials on container rinsing
3. Continued coordinated efforts to declassify plastic chips as non-hazardous
4. Continuously seek opportunities to safely recycle plastic (vs. incineration)



# Objectives for 2009

5. Communications/global branding – (for CLI Members to achieve greater stakeholder recognition for this leading stewardship program)
6. Road test the “Roadmap” (Bulgaria & Turkey)
7. Continue to communicate & implement technical risk management underpinnings for all program elements

8. End uses – continue to refine list (eg. Study on leachability of farm drainage tile planned)
9. Policy development:
  - Acceptability of seed treatment containers
  - Common contract elements for field shredding & recyclers



# Objectives for 2009 Process

- Each objective allocated to individual Committee member
- Concalls scheduled every two months
- Face-to-face meeting scheduled in October/09
- All 29 country managers receiving meeting minutes
- Face-to-face meeting with all country managers every 24 months (next mtg in September, 2010)



# Canada

- Formation of a separate non-profit corporation for containers & obstocks
- Multi-stakeholder input (advisory council)
- Programs developing into an environmental services business vs trade association
- Use the “CleanFARMS” branding
- Phase II – for-profit corporation & handle other ag plastics
- ISO certification

- Assessed in 2008 – three elements:
  - Reverse distribution (each registrant responsibility)
  - If one-way, “approved” contractor clean & grind
  - Plastic delivered to CropLife Canada for one sales organization only (control of end use with CropLife)

# Container Management Overview

(Program based on clean, rinsed containers of all sizes)

## CropLife Management

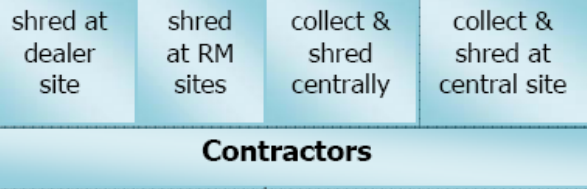
**Less than 23 Litres**

### Farmer

- 3x rinse
- remove booklet
- remove caps
- return to collection site

### Collection Sites

Atlantic Provinces (dealers)	RM's AB   MB	All other provinces (dealers)
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**Granulated & bagged product (owned by CropLife)**

Sale by CropLife

**Processor Clean/re-pelletize**

**RECYCLER**  
(approved end uses)

## Registrant Management

**Drums & Totes**

### Farmer

- 3x rinse or pressure
- return to retailer (all provinces)

1-way | return/refillable

**Reverse Distribution**  
(registrant responsibility - could also include cleaning)

**To CropLife certified contractors (central rinse, shred, bag)**

**Return/refill (various manufacturers' sites)**

**Granulated + bagged product**

Rinsed/Clean

Purchased by CropLife

Contaminated - (registrant decision with contractor)

Incineration by Registrant

Sale by CropLife

**PEI Paper Bags**

**Waste-to-Energy**





Thank you!

Questions?  
Comments?

