

# What is Integrated Fruit Production?



Photo Courtesy of Art Lightfoot

**IFP is a sustainable approach to  
fruit production which promotes  
environmental responsibility, economic  
viability and social responsibility**



# Origins of IFP

- 20+ years ago – Switzerland, Germany, Italy, Austria, France
- Environmentally sustainable farming
- Development of eco-labels
- Today considered the standard in E.U.
- Adopted in New Zealand, U.S.A., Chile, Canada, South Africa and elsewhere



# Agenda

Julie Carroll – IFP Development in NY

Michelle Miller – WI Eco-Apple Project

Bernie Solymar – Canadian Apple IFP Project

Charlotte Leaming – BCGAP

Stirling Fox – LIVE Program for Grapes





# Grown in Harmony: The National Apple IFP Project

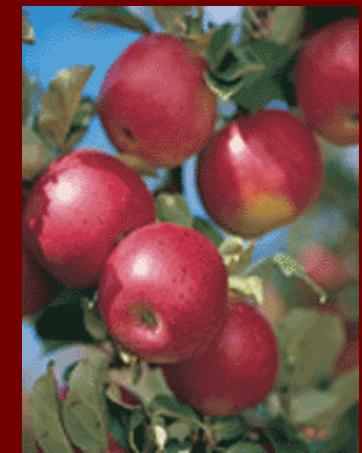
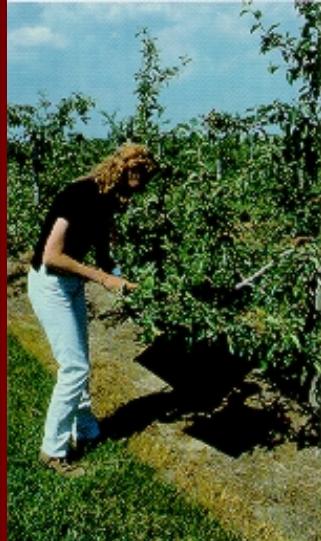
5<sup>th</sup> National IPM Symposium  
St. Louis, Missouri  
April 5<sup>th</sup>, 2006

Bernie Solymár  
EarthTramper Consulting Inc.



# The Canadian Apple Industry

- 20,000 hectares
- 500,000 metric tonnes
- CAN\$ 170 million at farm gate



# Challenges to our Industry

- World oversupply
- Competition from imported apples
- Retailer consolidation
- Stagnant farm gate prices
- Increasing input costs
- Static consumption
- Lack of pesticide harmonization with the U.S.

**= Shrinking markets for  
Canadian apples**



# The National IFP Project for Canadian Apples

## Coordination:

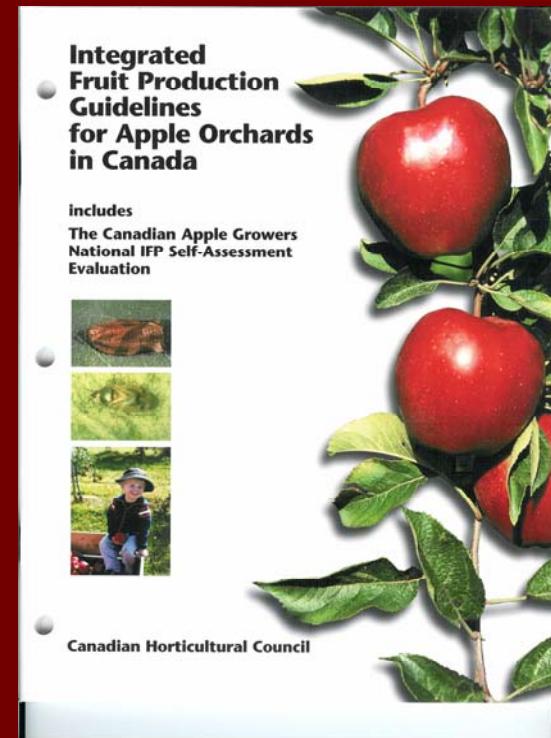
- Apple Working Group,  
Canadian Horticultural Council

## Funding:

- AAFC (CARD and ACAAF programs)
- AAFC – Pest Management Centre
- World Wildlife Fund Canada

## Project Consultant:

EarthTramper Consulting Inc.



# The National Apple IFP Project

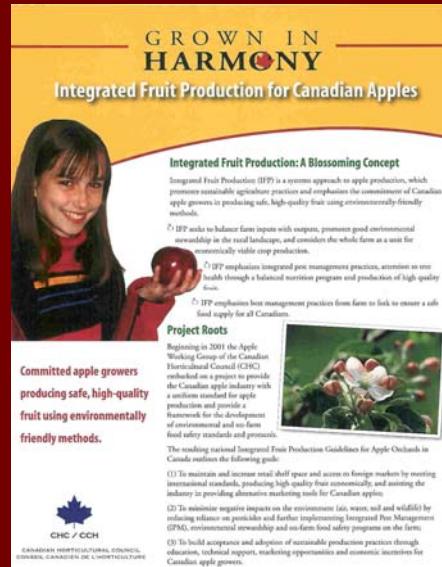
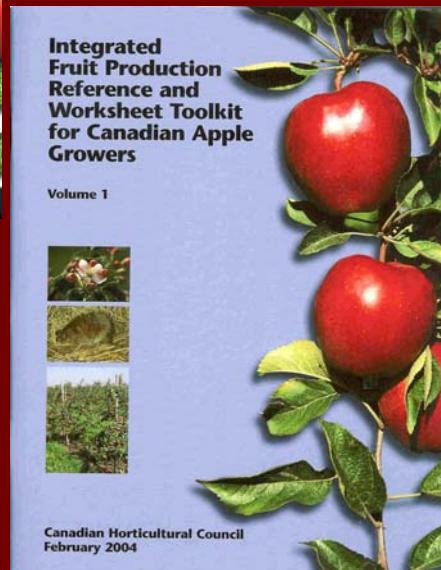
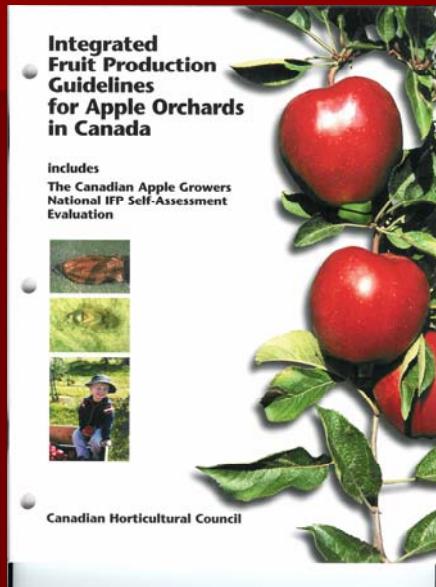
- Initiated in 2001

## Goals:

- Reduce environmental impacts of pesticides while maintaining economic viability
- Assure retailers and consumers that Canadian apple producers are leaders in integrated pest management, food safety, and land stewardship
- Supply Canadian and foreign markets with quality fruit produced under world-class, nationally endorsed IFP standards



# Results from Phase I and II (2001 – 2004)



**Apple Integrated Fruit Production (IFP)  
Adoption Survey  
2005**

The Apple Working Group of the Canadian Horticultural Council has, for the past 3 years, been developing Integrated Fruit Production (IFP) programs for the Canadian apple industry. This effort has included development of IFP guidelines, an apple IFP toolkit, a brochure for the public and other sectors of the food chain, provincial workshops and a national conference. Phase III of the national IFP project will begin in 2005 with the establishment of several national on-farm demonstration trials highlighting various IFP practices.

This survey will allow our apple industry to **measure progress** in adoption of IFP practices on the farm by establishing an initial **baseline** of current IFP practices and then conducting follow-up surveys on a regular (3 to 5 year) basis to assess progress on the IFP continuum. This information will also be used by our industry in a number of other important ways (e.g. identify research and technology transfer gaps, build a case for environmental incentive payments to growers, identify pesticide registration needs, etc.).

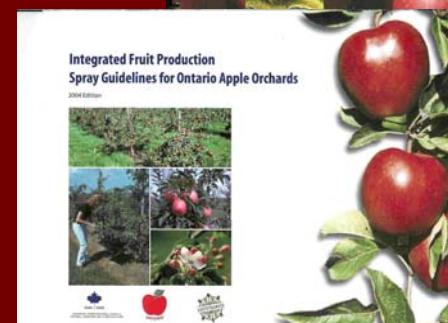
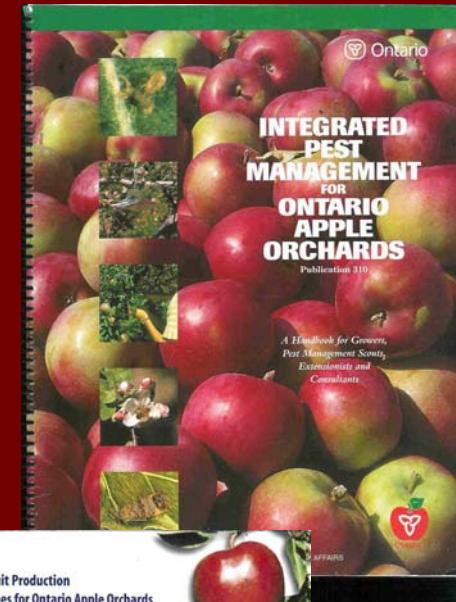
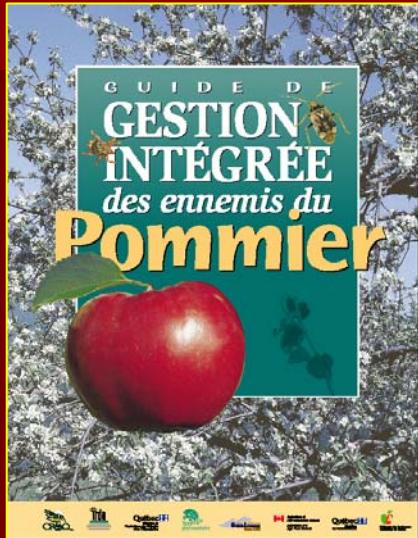
**This survey will take 30 minutes to complete.**

**Please circle/check the answers that best fit your orchard operation.**

Thank you to our sponsors:

**K.M. BARTLETT INC.**  
**ENGAGE AGRO**

# Development of Provincial IFP Programs & Protocols



Agriculture and  
Agri-Food Canada

Agriculture et  
Agroalimentaire Canada

# Phase III (2005 – 2010)

- 5 year funding from AAFC
- Taking IFP to the field:

*"I hear and I forget,  
I see and I remember,  
I do and I understand".*



# Development of On-Farm Demonstration Trials

- Set up provincial IFP Advisory Teams
- Development of protocols
- Recruitment of consultants
- Recruitment of grower co-operators
- Conduct trials in commercial orchards
- On-going consultant-grower contact
- Data collection
- Evaluation of environmental impacts and economics



# Reduced Risk On-Farm Demonstration Trial

## Purpose:

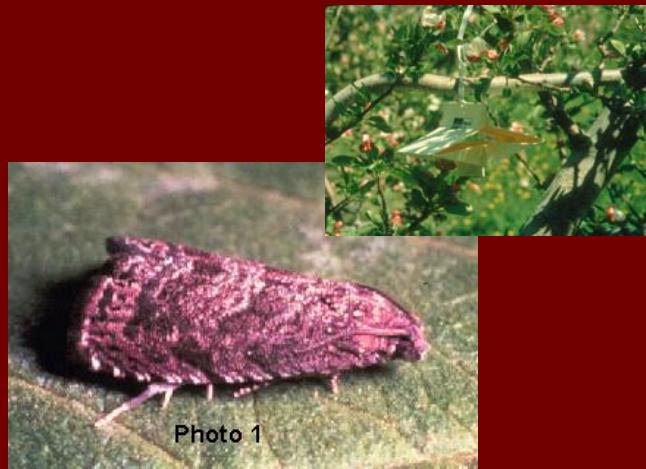
“Hands on” testing of reduced risk materials and pheromone mating disruption to look at IPM fit (i.e. efficacy, impact on beneficials), and grower field tours

- 20 orchards (5 per province/region)
- 5 and 10 acre blocks
- 3 year trial



# Reduced Risk Trials

- Substitution of organophosphate insecticides with registered reduced risk materials
- Emphasis on integrated fungicide program with attempt to reduce EBDC fungicides to early season use only
- Minimize use of residual herbicides



# Reduced Risk Trials

- Pheromone mating disruption for key Lep pests
- Testing of innovative alternatives – including Surround for pest management, and solitary leafcutter bees for pollination



# Replant IFP On-Farm Demonstration Trial

## Purpose:

To demonstrate and evaluate IFP practices during pre-plant, planting year and establishment years of new orchards

- 20 sites (5 per province)
- 1 acre blocks
- 5 year project



# Replant Trials

- In pre-plant sites, comparisons of nematode suppressant/non-nematode host cover crops.
- In 1<sup>st</sup> year plantings, comparisons included mulching, irrigation management, weed & insect control, cover crops, nutrient & disease management, productivity & growth.



# Thanks to our IFP Advisory Teams

## ■ NS/NB

Gordon Lemon (team leader, NSFGA IPM Committee Chair), Dr. Rob Smith (consultant), Erika Bent (APM Consulting), Rachel Caissie (NB Consultant), Bill Craig (AgriPoint Intl.), John Eisses (grower, NSFGA)

## ■ QC

Dr. Gérald Chouinard (team leader, IRDA), Dr. Vincent Phillion (IRDA), Yvon Morin (consultant, Club ProPomme), Natalie Tanguay (consultant, Club des producteurs du sud-est), Serge Mantha (consultant, Club des producteurs pomicole de la région de Québec), Roland Joannin (consultant, Pomme Plus)

## ■ ON

Bernie Solymár (team leader, EarthTramper Consulting Inc.), Harold Schooley (grower, OAG Research Chair), Ken Wilson (consultant), Cathy McKay (consultant, The Apple Doctor), Leslie Huffman (weed specialist, OMAFRA), Mike Celetti (pathology lead, OMAFRA), Anne Verhallen (soil management specialist, OMAFRA), Paul Frankis (grower)

## ■ BC

Hugh Philip (team leader, BCMAFF), Jim Campbell (apple specialist, BCMAFF), Lisa Jarrett (field staff, Okanagan Tree Fruit Co.), Bob Fisher-Fleming (field staff, Okanagan Tree Fruit Co.), Christi Evans (field staff, Okanagan Tree Fruit Co.), Don Magnusson (BCFGA), Dr. Gene Hogue (retired AAFC), Joe Sarhinha (grower, BCFGA)



# Thanks to our Consultants

- Nova Scotia – Agri Point International (Bill Craig), Agricultural Pest Monitoring (Erica Bent) and Dr. Rob Smith
- New Brunswick – Rachel Caissie
- Québec – Nathalie Tanguay, Roland Joannin, Yvon Morin, Serge Mantha, IRDA (Dr. Vincent Phillion)
- Ontario – EarthTramper Consulting Inc. (Bernt Solymár), The Apple Doctor (Cathy McKay), Ken Wilson
- British Columbia – Okanagan Tree Fruit Co. (Lisa Jarrett and Christi Evans, to be replaced by Leah Thompson and Molly Thurston in 2006)



# Thanks to our IFP Cooperators

## ■ NS/NB

Reduced Risk – Stephen VanMeekern, Andrew Bishop, Jeff Hennigar, Rob Smith

Replant - Graham Hennigar, Tim Pearson, Lloyd Dick, Tom Stirling

## ■ QC

Reduced Risk – Claude Girard (Domaine de Dunham), Gérald Lussier, Pascal Lacroix

Replant - Jocelyn Tardif (Verger R&D), Francois Turcotte (Ferme Avicole Orléans), St. Bruno Experimental Orchard (IRDA) X 2

## ■ ON

Reduced Risk – Ireland Orchards Ltd. (Gary Ireland), Orchard Home Farm (Jerry Brubacher), Joe and Regina Fiedler, Cleaver Orchards Ltd. (Rick Cleaver), Calmark Orchards (John Boughner)

Replant – Harold Schooley (Schooley Orchards Ltd.), Paul Frankis (SugarApple Orchards), John Van Diepen (Warwick Nursery and Orchards), Marius Botden (Global Fruit), Steve Lennox (Pickering Orchards)

## ■ BC

Reduced Risk – Jamie Kidston, Dave Sandher, Russel Husch, Roger Bailey, Surrinder Sohol

Replant – Steve Brown, Paul Jeffares, Enio Leardo, Jadvinder Nijjer, Bob Fisher-Fleming



# Want more info?



Available from:

Amy Argentino, Canadian Horticultural Council  
613-226-4880, ext. 208, [aargentino@hortcouncil.ca](mailto:aargentino@hortcouncil.ca)

Bernie Solymár, EarthTramper Consulting Inc.  
519-426-7124, [solymar@nornet.on.ca](mailto:solymar@nornet.on.ca)

