



Agriculture and  
Agri-Food Canada

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# Minor Use Pesticide Program Pest Management Centre

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Executive Director  
Pest Management Centre  
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Canada

# Pest Management Centre's Activities

- Who we are
- Pest Management Centre Activities
  - Pesticides Risk Reduction Program
  - Minor Use Pesticides Program
- International Collaborative Efforts
  - Joint work sharing with the U.S. IR-4 Project
  - Opportunities through International Collaboration



# PMC's Purpose and Vision

- The PMC uses scientific knowledge and expertise to improve pest management practices for the benefit of all Canadians and the environment. We respond to grower needs by providing specific pest management solutions that foster competitiveness, sustainable crop production and environmental stewardship.
- PMC vision:
  - An internationally recognized centre of excellence and catalyst for innovation and competitiveness, dedicated to sustainable pest management.

# Pesticide Risk Reduction Program

**Program support has led to:**

**- Increased availability and access to new, innovative IPM tools and practices:**

- ✓ **Decision making systems**
- ✓ **Cultural management methods**
- ✓ **Resistant cultivars**
- ✓ **Integrated crop management approaches**
- ✓ **Improved spray technology**

**- Increased availability of new control products & technology:**

- ✓ **By providing regulatory support for registration of Biologicals & biopesticides**

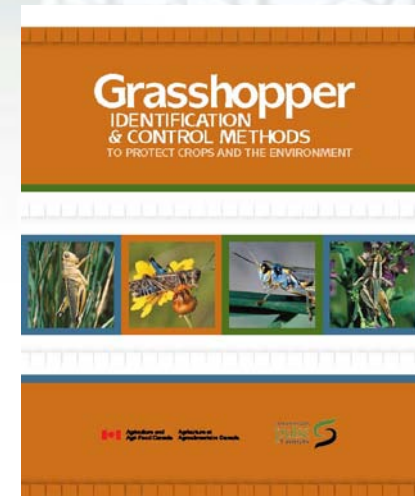


# Pesticide Risk Reduction Program Con't

Program support has led to:

Dissemination of information through:

- ✓ Field demonstrations
- ✓ Pest identification/diagnostic field guides
- ✓ Extension publications/manuals & web resources
- ✓ Factsheets
- ✓ Grower Workshops / field tours



**Canola Disease Identification & Sclerotinia Risk Assessment Card**

**Sclerotinia Disease Cycle**

**Assessing the Risk for Sclerotinia Stem Rot in Canola**

| REFACTOR                                     | ASSESSMENT        | SCORE |
|--|-------------------|-------|
| <b>NUMBER OF DAYS SINCE LEAF CANOLA CROP</b> | Less than 30 days | 1     |
|  | 30 to 60 days     | 2     |
|  | 60 to 90 days     | 3     |
|  | 90 to 120 days    | 4     |
|  | 120 to 150 days   | 5     |
| <b>DISEASE INCIDENCE IN LAST YEAR CROP</b>   | 0%                | 1     |
|  | 1-10%             | 2     |
|  | 11-20%            | 3     |
|  | 21-30%            | 4     |
|  | 31-40%            | 5     |
| <b>CROP DENSITY</b>                          | Low               | 1     |
|  | Medium            | 2     |
|  | High              | 3     |
| <b>RISK IN THE LAST TWO YEARS</b>            | Low               | 1     |
|  | Medium            | 2     |
|  | High              | 3     |
| <b>WEATHER FORECAST</b>                      | Low Precip        | 1     |
|  | Med Precip        | 2     |
|  | High Precip       | 3     |
| <b>NEED FOR PESTICIDE INTERVENTION</b>       | Low               | 1     |
|  | Medium            | 2     |
|  | High              | 3     |
| <b>TOTAL RISK POINTS FOR ALL REFACTORS</b>   |                   |       |

# What is a Minor Use?

In Canada a “minor use pesticide” is defined a pesticide use for which the anticipated volume of sales is not high enough for a manufacturer to justify the costs to register and sell the product in Canada.

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Canada accounts for **less than 3%** of world pesticide sales.

Canada accounts for **less than .06%** of world **minor use** pesticide sales.

# Elements of a Successful Model

- **Grassroots/business motivate change:**
  - Leadership from private sector to educate, and demonstrate need
- **Policy Decision:**
  - Decision-makers - recognition of public policy need to resolve issue
  - Demonstrate the public benefits increased Government role.
- **Budget:**
  - adequate spending authorities to prioritize, initialize and implement grower-selected solutions.
  - budget is targeted for Minor Use work **and** regulatory body for evaluation and regulatory decision. (example; PMC and PMRA)
- **Professional Staff**
  - Placement of highly specialized, highly skilled & highly motivated personnel.
- **Identify and utilize partnerships expertise:**
  - Maximize public and non-public sector potential, achieve stakeholder buy-in
- **Tangible Results – linked to Government Strategic Outcomes**
  - Achieving realistic targets, continual re-evaluation of better ways to achieve results
- **Governance / Accountability to stakeholders, taxpayers, AND, partners**
  - Joint Management Committee (example PMC/PMRA/TB)
  - Advisory Committee, Technical Working Groups
- **Outreach** activities/regular dialogue with growers

# Elements of a Successful Model

## **Trabalho de base / oportunidade de negócios motivam mudanças:**

- Liderança do setor privado para educar e demonstrar requerimentos

## **Decisão política:**

- Os tomadores de decisão - reconhecimento de necessidades de política pública para resolver questões.
- Demonstrar os benefícios públicos - aumento do papel do governo.

## **Orçamento:**

- Autoridades para gastos adequados para priorizar, inicializar e implementar prioridades selecionadas pelos produtores.
- Orçamento é direcionado para o trabalho para culturas de suporte fitossanitário insuficiente e órgão regulador para a avaliação e emissão de parecer normativo (CMPP e Ministério da Saúde).

## **Equipe profissional**

- Engajamento de pessoal altamente especializados, qualificados e motivados.

## **Identificar e utilizar experiência e conhecimentos de parceiros:**

- Maximizar o potencial dos setores público e privado, ganhar confiança e apoio das partes interessadas

## **Resultados tangíveis – em suporte ao planejamento estratégico do governo**

- Atingir metas realistas, reavaliar atividades e direções afim de buscar melhores formas para alcançar resultados

## **Governança / responsabilidade dos acionistas, dos contribuintes, e, parceiros**

- Comitê de Gestão Mista (exemplo CMPP/Ministério da Saúde/Conselho do Tesouro Nacional)
- Comitê Consultivo, Grupos de Trabalho Técnico

## **Atividades de extensão / diálogo regular com os produtores**



# Partnerships

## PMC:

- Facilitates priority setting process
- Carries out field trials
- Write submissions

## IR-4:

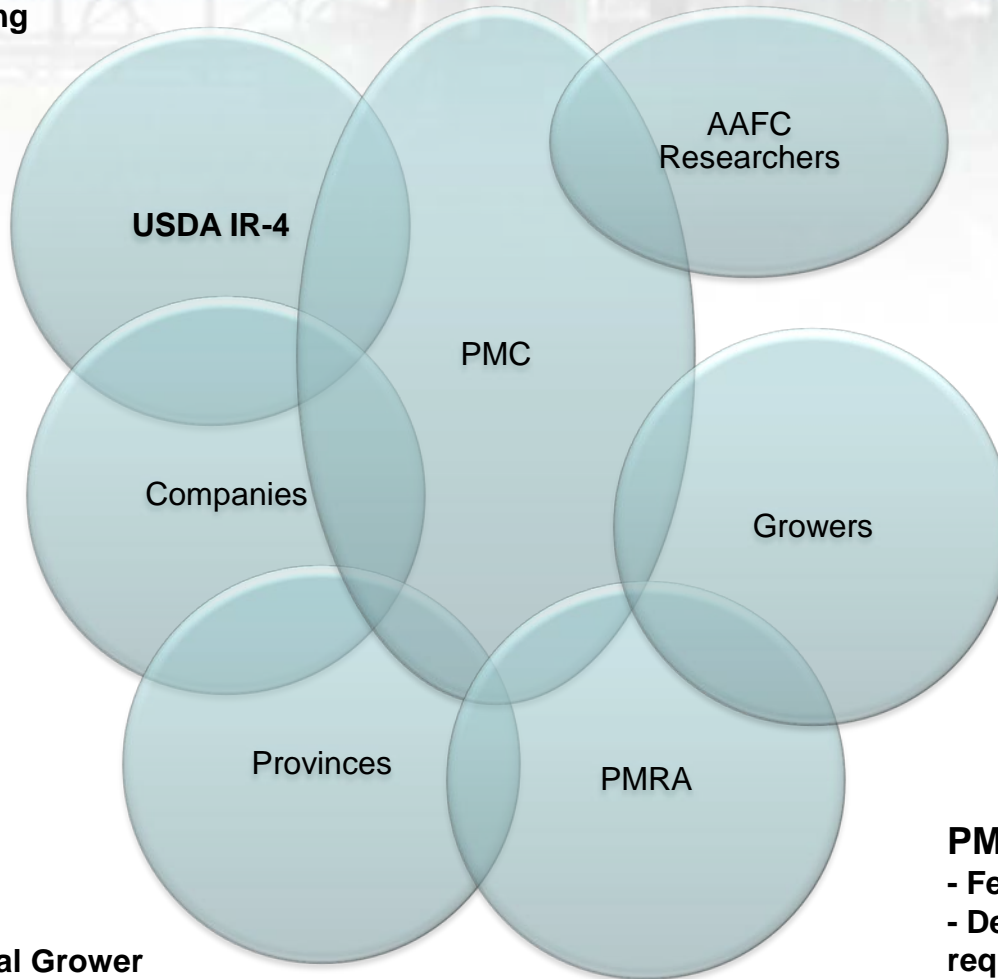
- Work with PMC to facilitate North American Registrations

## Companies:

- Develops new technologies
- Determines product eligibility based on market

## Provinces:

- Coordinate regional Grower needs
- Make emergency and Provincial MU submissions



## AAFC Researchers:

- Conduct Research on grower priorities
- Compile data supporting new MU submissions

## Growers:

- Demonstrate needs
- Choose priorities

## PMRA:

- Federal regulator
- Determines data requirements
- Reviews submissions

# Parcerias

## CMPP:

- Laboratórios, campos experimentais, facilitação da oficina de priorização
- Conduz ensaios de campo
- Prepara documentos para registro do uso de agrotóxicos

## IR-4:

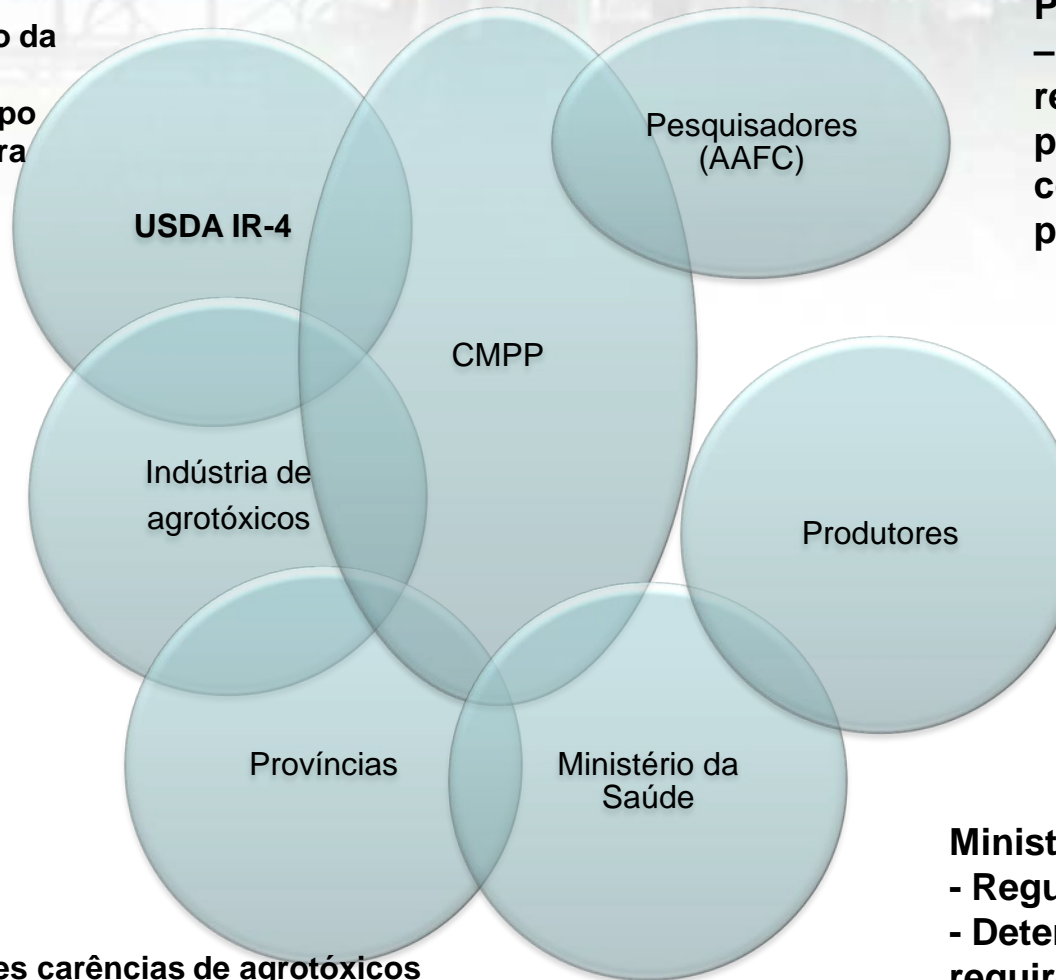
- Colabora com o CMPP facilitando registro simultâneo nos dois países

## Indústria de agrotóxicos:

- Desenvolvem novas tecnologias
- Determinam exequibilidade baseado no mercado

## Províncias:

- Coordenam com produtores carências de agrotóxicos
- Preparam documentos para registro de urgência e outras submissões



## Pesquisadores:

- Investigam requerimentos dos produtores para controle de pestes e pragas

## Produtores :

- Informam sobre a necessidades de agrotóxicos
- Priorizam projetos para registro do uso de agrotóxicos

## Ministério da Saúde :

- Regulamenta o uso
- Determina requirements
- Avalia documentos e emite parecer

# Although the roles of the PMC are quite different than those of HC's PMRA, we work closely together

## PMC Roles

- Work with stakeholders to identify key pest management issues
- Generate data and regulatory submissions for new minor uses
- Implement projects which will enhance environmental stewardship
- Improve access to pesticides to help growers compete in global and markets
- By providing field & lab data contributes to regulatory policy decisions / changes

## Pest Management Regulatory Agency Roles

- Federal regulator and registrar of pesticides
- Develops, delivers and enforces federal pesticide policies and guidelines
- Evaluates pesticide registration proposals
- Promotes sustainable pest management
- Looks to improve regulatory process to improve efficiency

# Apesar do papel do CMPP e do Ministério da Saúde serem distintos nós trabalhamos juntos.

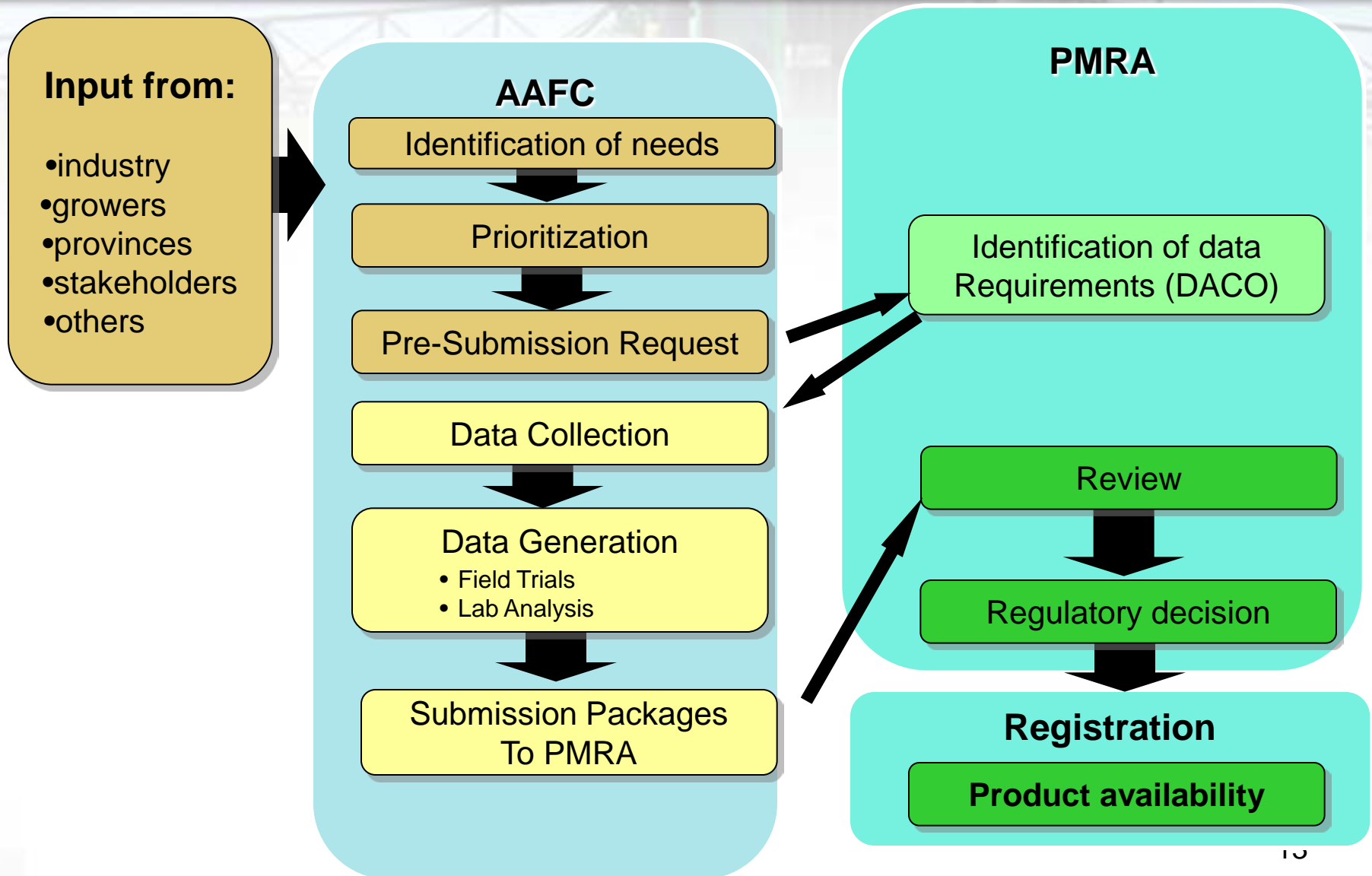
## Função do CMPP

- **Trabalhar com as partes interessadas para identificar os problemas de manejo das pestes e pragas mais importantes;**
- **Gerar dados e preparar documentos para registro do uso de agrotóxicos;**
- **Implementar projetos tendo em consideração o meio ambiente**
- **Melhorar o acesso dos produtores ao uso de agrotóxicos visando maior competitividade no mercado global;**
- **Contribui para decisões nos regulamentos**

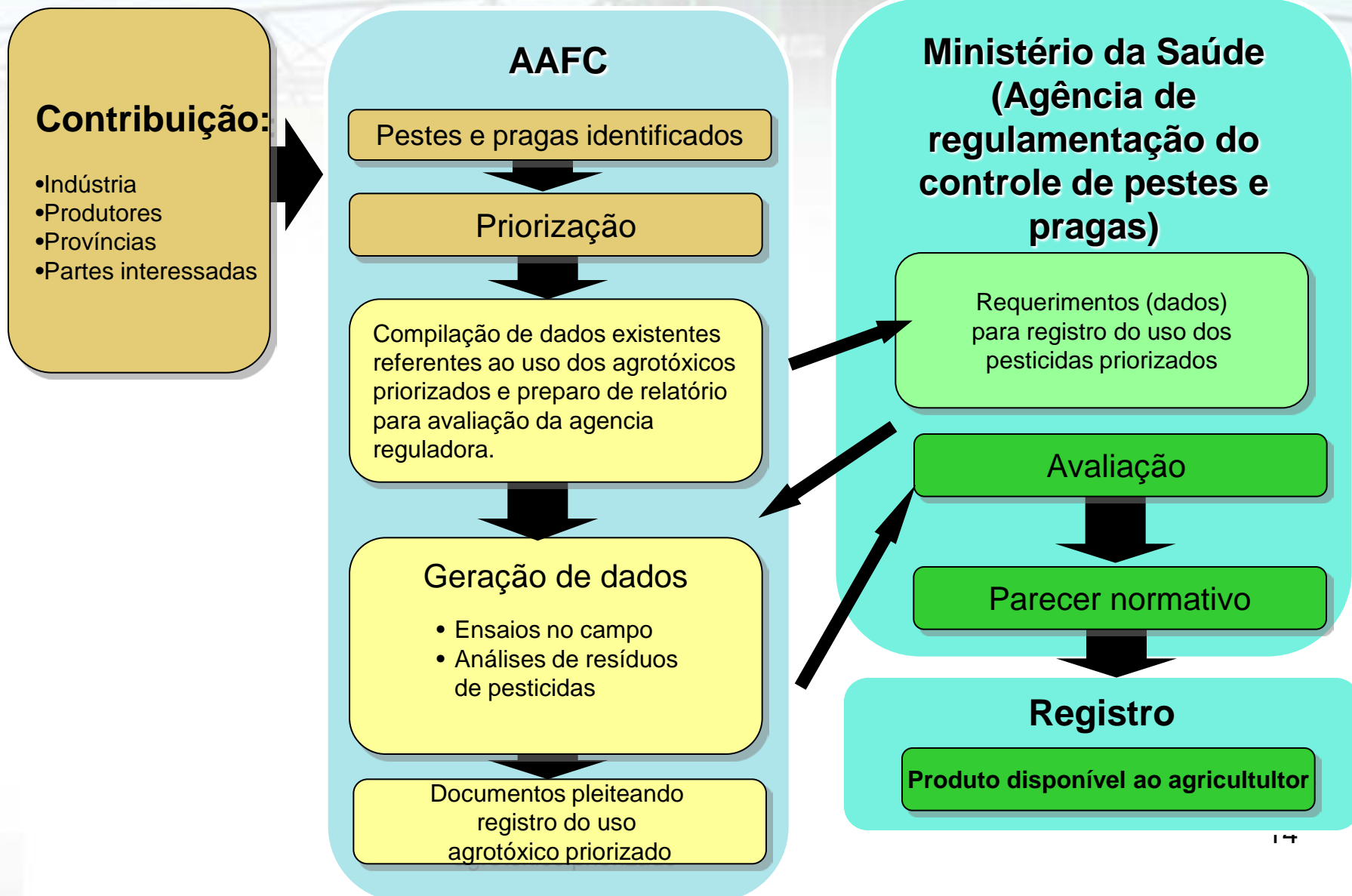
## Função do Ministério da Saúde (Agência de regulamentação do controle de pestes e pragas)

- **Agência de regulamentação federal, desenvolve regulamentos e monitora o uso de agrotóxicos**
- **Avalia documentos e emite parecer**
- **Promove o manejo sustentável de pragas e pestes**
- **Trabalha para melhorar o processo regulatório e eficiência**

# Minor Use Registration Process



# Minor Use Registration Process



# Minor Use Priority Selection

- **2012 was the 10th Annual Priority Setting Workshop**
- **44 grower-chosen priorities selected**
- **PMC collecting data and preparing Pre-submission requests**
- **Trials will begin during 2013 growing season**



**Prioritize**

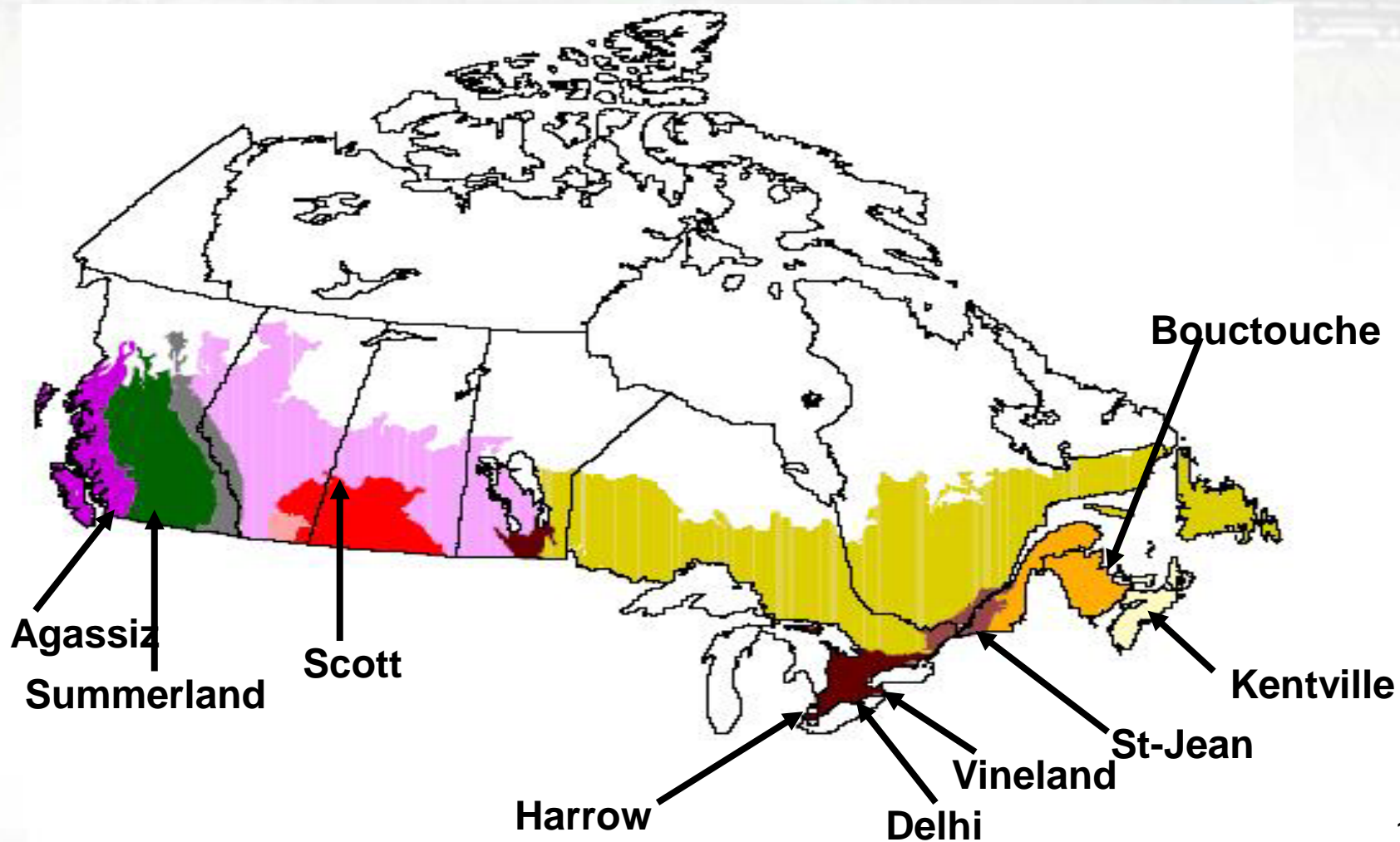


**Plan and Conduct Trials**



**Analyze**

# AAFC Research Centres involved in Minor Use Field trials





# Achievements

## 2003 - 2012

- 821 projects undertaken + 45 new projects from 2012 Workshop
- 427 projects completed and submitted to PMRA & Registrants
- 272 Registrations
- Over 949 new uses
- Most recent projects submitted to PMRA:
  - 2007-2008 49
  - 2008-2009 45
  - 2009-2010 76 (includes backlog)
  - 2010-2011 83 (includes backlog)
  - 2011-2012 62 (includes backlog)
  - 2012-2013 25 as of Oct 30, 2012

# Canada - US Partnership Model

- **PMC**

- **AAFC funded including MU Program for PMRA**
- **Consultations with Prov. Minor Use Coordinators, Grower Groups and Manufacturers**
- **Priority Setting Workshop (March)**
- **Planning Meeting (January)**
- **Field Trials at 9 GLP AAFC Research Centers and private contractors and Universities**
- **Located in 4 Regions**
  - **Western (2)**
  - **Prairies (1)**
  - **Central (4)**
  - **Atlantic (2)**
- **AAFC-PMC lab**

- **IR-4**

- **USDA and Industry Funding**
- **Consultations with Regional Field Coordinators, Grower Groups and Manufacturers**
- **Food Use Workshop (September)**
- **Ornamental Workshop (October)**
- **Research Planning Meeting (October)**
- **Field Research Centers (Land Grant Universities- 4); State Field Research Centres/Food Use – 23; USDA-ARS field research Centres -7; private contractors**
- **Located in 4 Regions**
  - **Northeast (NY)**
  - **North Central (MI)**
  - **Western (CA)**
  - **Southern (FL)**
- **Regional Labs and Satellite Labs**

# Harmonization

- PMC works closely with the U.S.D.A. IR-4 Project to maximize harmonized pesticide tolerances for the U.S. and Canada.
- Cooperation with IR-4 through joint projects leads to significant resource savings
  - Reduction on the number of field trials conducted & lab analysis trials and shorter time frame for submission and registration by using the Joint Review stream.
  - Regulatory decisions for new uses at approximately the same time – benefiting growers on both sides of the border
  - Harmonized tolerances/Maximum Residue Limits (MRLs) helps remove trade barriers.
- Use of crop groupings which allow registration on more crops within a group.
- More than 87 new uses registered from the joint PMC/IR-4 projects.
- Invasive Species: Joint efforts with Federal Authorities and researchers to find solutions (chemical and integrated) to 2 devastating pests: Brown Marmorated Stink Bug and Spotted Wing Drosophila
- Memorandum of Understanding (MOU) between IR-4 and AAFC/PMC

# International Activities and Collaboration

## At the International level:

### Minor Use Program:

- Participation in the Global Residue Studies (tomato and blueberry), validation of CG (e.g. CG8)
- Collaboration with PMRA, provinces, other countries and international organizations via CODEX and the OECD Pesticides Forum (OECD Expert Group on MU) to establish global harmonized MRLs and to work towards acceptance of global data.
- Participation on the Organizing Committee and Advisory Committee for the Global Minor Use Summit II

### Risk Reduction Program:

- Participation in the OECD IPM Workshop on behalf of AAFC (October 2011 in Berlin) and drafting of recommendations to the OECD.
- Involved in international efforts related to IPM measurement
- Organization of mini-symposium involving three countries at 7<sup>th</sup> IPM Symposium March 2012 in Memphis
- Maintains connection with US IPM Centers, IR-4 Biopesticides program (part of proposal review committee), CABI and BPIA

# Governance - PMC's JMC and Advisory Groups

- **Joint Management Committee with PMRA**
  - Funding provided by AAFC to HC's Pest Management Regulatory Agency (PMRA) based on approved work plans and performance indicators related to minor uses, tech gap and global joint reviews.
- **PMC Advisory Committee**
  - Provides broad, strategic-level and independent external advice to the Executive Director of the PMC.
  - Consists of grower groups, registrants, produce marketing (importers/exporters), consumers and food product manufacturers.
- **Minor Use Pesticides and Pesticide Risk Reduction TWGs**
  - Members include representation from growers, the provinces, registrants, academia and other specialists.
- **Looks to improve regulatory process to improve efficiency**

# Communications

- Website
  - By monthly updates
  - **WEB SITE:**
  - **WWW.AGR.GC.CA/PRRMUP**
- Newsletter
  - Quarterly updates
  - Distributed through List Server and grower organizations
- List Serv
  - Each time a Minor Use project is registered / labelled
  - Each time a Risk Reduction fact sheet is completed / published or a Risk Reduction project is completed
  - **PMC-CLA-L-subscribe-request@www.agr.ca**

**The Pest Management Newsletter**  
News from the Agriculture and Agri-Food Canada Pest Management Centre Vol 2 No 3 Winter 2010

### How's the Weather?

There was some peculiar weather across Canada during 2009, from unprecedented snowfalls in British Columbia to record-breaking cold in Quebec. Many agricultural regions never did dry out, while others sizzled and farmers hoped for rain. The unusual conditions took a toll on some growers while helping others, and Pest Management Centre (PMC) Researchers from coast to coast had a first-hand look at both extremes.

#### The West Coast: The Okanagan Valley

Spring was cold and prolonged in British Columbia's Okanagan region, which quite literally put a damper on early crop development. "The cherry bloom usually comes in April," says Karen Bedford, a PMC principal investigator at the Pacific Agri-Food Research Centre's Summerland site, "but this year it was in early May. The technician in our cherry and apple breeding program said he'd only seen this happen once in more than 20 years. So while we've had springs similar to this one, they've been very rare."

Later in the season, fortunately, the weather improved. This was especially important for the Okanagan's cherry growers, whose crop is the basis of a highly profitable export industry. One problem for these growers during the 2009 harvest was a shortage of helicopters, which were busy fighting forest fires; the machines are used to blow rainwater off the fruit, which might otherwise split. But the harvest turned out reasonably well anyway, with large crops of cherries and apples. The improved weather also allowed the Minor Use Pesticides Program (MUPP) team in Summerland to carry out their field trials as they'd planned, and they didn't see any unusual changes in the incidence of pests or diseases.

### Contents

|   |    |
|---|----|
| How's the Weather   | 1  |
| Happy Hundredth   | 4  |
| Growing Forward   | 5  |
| Needlecast: An Emerging Pest  | 5  |
| AAFC Research Facilities Receive Funds Aimed at Modernizing Labs    | 6  |
| The Fight Against Emerging and Resistant Diseases                   | 7  |
| Harmonizing Canada-U.S. Research                                    | 7  |
| What's New on the PMC Website                                       | 8  |
| Calendar of Events  | 8  |
| People on the Move  | 8  |
| 2009 Regulatory Submissions and Registrations                       | 9  |
| A Message From the Executive Director of the Pest Management Centre | 11 |

Canada

# The Way Forward

- Be available to countries who wish to establish MU programs like in the US (IR-4) and in Canada (PMC).
- Increase number of joint projects with IR-4 and other country MU programs.
- Enhance relations with Registrants to encourage partnership early in the development process of new actives for minor uses / specialty crops.
- Work under the Regulatory Cooperation Council to facilitate equal access to products and uses in Canada and the US, and align MRLs wherever possible in order to avoid technology gaps
  - Identifying mechanisms to encourage applications for joint reviews that include increased number of minor uses
  - Potential for more Canada/U.S. cooperation on joint work to collect data and evaluate regulatory submissions
- **Cooperation with Brazil**

# PMC-ANVISA Memorandum of Understanding

**PURPOSE: To promote collaboration to generate data and prepare regulatory submissions, to enhance efficiency and maximize cost effectiveness by coordinating the generation and sharing of data for regulatory submissions of new minor uses of pesticides**

The Participants will:

- (a) Identify pest management needs common to both countries;
- (b) Participate to priority setting workshops, conference calls, and meetings where and when top pest priorities are identified;
- (c) Select joint priority projects, determine regulatory requirements, conduct trials in both countries for the generation of data to meet regulatory requirements or demonstration to growers,
- (d) Share information including regulatory data, study plans, pesticide screening results, pesticide residue analysis protocols, standard operating procedures, and other information deemed necessary to affect the registration of new minor uses of pesticides in either country;
- (e) Work jointly to harmonize simultaneous pesticide registration in both countries.



# MEMORANDO DE ENTENDIMENTO ANVISA e MINISTÉRIO DA AGRICULTURA E AGRO-ALIMENTAR DO CANADÁ

**Objetivo: estabelecer os parâmetros do trabalho de colaboração entre os participantes visando um maior acesso do produtor de culturas de suporte fitossanitário insuficiente a novos usos de agrotóxicos para combater pragas prioritárias comuns ao Brasil e ao Canadá.**

- Os participantes concordam em:
- (A) Identificar as carências de agrotóxicos para combater pestes e pragas comuns a ambos os países;
- (B) Participar de oficinas de trabalho, teleconferências, e reuniões para priorizar pestes e pragas para culturas de suporte fitossanitário insuficiente;
- (C) Selecionar projetos que respondam a prioridades comuns aos dois países, determinar os requisitos normativos necessários, realizar ensaios em ambos os países para a geração de dados para atender às exigências regulamentares ou para demonstração do uso e valor econômico aos produtores;
- (D) Compartilhar informações, incluindo dados de eficácia agrônômica e de tolerância das culturas em que se pleiteia o uso do agrotóxico bem como o teor de resíduos do agrotóxico após sua aplicação, planos de estudo, protocolos de análise de resíduos de pesticidas, procedimentos operacionais padrões e outras informações consideradas necessárias para o registro de novos usos de agrotóxicos em culturas de suporte fitossanitário insuficiente;
- (E) Trabalhar em conjunto para harmonizar o registro simultâneo do uso de agrotóxicos em culturas de suporte fitossanitário insuficiente nos dois países.

# SPECIAL INVITATION

**WEB SITE: [WWW.AGR.GC.CA/PRRMUP](http://WWW.AGR.GC.CA/PRRMUP)**

**SITE WEB: [WWW.AGR.GC.CA/PPELRRP](http://WWW.AGR.GC.CA/PPELRRP)**

**LIST SERVER/SERVEUR DE LISTE :**

**[PMC-CLA-L-subscribe-request@www.agr.ca](mailto:PMC-CLA-L-subscribe-request@www.agr.ca)**

- **March 18, 2013 – Pesticide Risk Reduction Program 4<sup>th</sup> Annual Biopesticides Priority Setting Workshop – Hilton Lac Leamy, Gatineau, QC**
- **March 19-21, 2013 – 11<sup>th</sup> Annual Canadian Minor Use Pesticides Priority Setting Workshop – Hilton Lac Leamy, Gatineau, QC**

# THANK YOU!

