

PRESENTATION OUTLINE

A "CASE STUDY" of the Canadian approach to introducing on-farm food safety to the agricultural sector

- Background food safety
- The increasing push for food safety
- Canada's approach to food safety/grain assurance
- Future activities in food safety



In recent decades

- improved sanitary practices have become common
- many diseases have been reduced or eliminated
- availability of our food supply has become more secure
- there is more diversity in the choice of food.....

....so, we have turned our attention to the **SAFETY** of our food supply



Definition

 Food safety refers to the conditions and practices that preserve the quality of food to prevent contamination and foodborne illnesses



International Incidents

Incidents that affect the safety of our food supply have become more publicized and have created concern and fear

- 1995 Bovine Spongiform Encephalopathy (BSE)
- **•1996 -** E. coli 0157
- •1999 Dioxin Belgium
- •2007 China Tainted Gluten
- Today Avian Influenza A (H5N1)



Increasing Awareness

a global affair





- ✓ Canadian farmers produce safe food
- ✓ Consumers want safe food
- ✓ Despite the exceptional record, some still say "show me"
- ✓ Since mid-1990's farmers have been taking a very active approach
- ✓ Question if food safety for the grain sector is a general desire or an isolated demand for a niche market

Food processing customer quote:

"At the end of the day, if we invest in all of this, then the least we expect is the supply chain to match our effort and support our vision"

Four main "drivers" to develop commodity-specific onfarm food safety programs

- consumer concerns
- government initiatives
- customer demands
- competitor actions



- Starting in 1997 the federal government encouraged the agricultural industry to develop <u>voluntary</u> HACCP-based national food safety systems
- Provided financing to get organized, hold meetings and develop programs
- To date, twenty (20) national organizations have developed and are implementing 29 commodity-specific on-farm food safety programs covering 99 per cent of primary agriculture production in Canada



Early goals:

- Develop national programs
- Provide international recognition to improve market access
- Build consumer confidence
- Key, uniform standards to be set by the Canadian Food Inspection Agency (CFIA)
- Each Commodity manages its program



Commodity-specific programs

Aquaculture

Beef Cattle

Bison

Broiler Hatching

Eggs

Chicken

Dairy

Table Eggs

Herbs and Spices

Field Crops

Hogs

Honey

Horticulture

Mushrooms

Sheep and Lamb

Turkey

Veal

Goats



- The Canada Grains Council, a national industry group covering Canadian field crops, led the advancement for the grains sector.
- 16 different farm organizations representing cereal, oilseed and special crop producers worked together on the

CANADA ON-FARM FOOD SAFETY COMMITTEE (COFFS)



FOOD SAFETY - COFFS (1997)

- Alberta Barley Commission
- Agricultural Producers Association of Saskatchewan
- Atlantic Grains Council
- Canadian Canola Growers
- Canadian Federation of Agriculture
- Canadian Wheat Board
- Fédération des Producteurs de Cultures Commerciales du Québec
- Grain Growers of Canada
- Ontario Corn Growers
- Ontario Grain and Oilseeds
- Prairie Oat Growers
- Saskatchewan Pulse Growers
- Western Barley Growers
- Western Canadian Flax Growers
- Western Canadian Wheat Growers
- Wild Rose Agricultural Producers



FOOD SAFETY Wheat







Canadian Grain Commission (CGC)

Federal government authority Designated under the Canada Grain Act Grains, Oilseeds, Pulses and Special Crops

Much of the responsibility for the quality of Canadian grain belongs with the Canadian Grain Commission (CGC). Establish and maintain Canada's grain grade standards



Commission







Commission canadienne des grains

✓ Comprehensive assurance programs which address **ALL** major grain safety issues

www.grainscanada.gc.ca





Canadian Grain Commission canadienne Commission des grains

- ✓ Continuous monitoring program -
 - ✓ elevators, railcars, containers
- ✓ Random testing on selected vessels
- ✓ Provides scientific basis for official CGC Statement of Assurance on food safety issues
- ✓ Enhances the marketability of Canadian grain





Commission canadienne des grains

 Minimizes the risk of commercial shipments being out of compliance with domestic and foreign food safety standards and to reassure customers about the safety of Canadian grain









Grain Sector Program (Cereals, oilseeds, pulse and special crops)

- Despite a good grain safety record, government, industry and farmers felt the need to develop a voluntary program
- Grain initiative began in 2001, Canada Grains Council forming a steering committee of farmers and industry
- Considerations:
 - determine need, feasibility and demand
 - ensure it was farmer and market driven
 - focus on prevention vs. end product testing
- Also wanted to develop HACCP based food safety (post farm) model for each link of the food chain
 - truck→ elevator → rail → lake freight → transfer elevator



Grain Sector Program (Cereals, oilseeds, pulse and special crops)

- Lestablish a Management Committee and plan
- II. Build a generic model for a Producer Manual
- III. Complete a technical review of the manual
- IV. Develop farmer and auditor training process
- V. Develop a national Management System, get CFIA approval
- VI. Implementation



Grain Sector Program (Cereals, oilseeds, pulse and special crops)

- Producer led
- National, commodity specific and accessible
- Voluntary
- HACCP based
- Auditable
- Ability to integrate with other programs
- Market driven

- Government recognized
- Internationally accepted (credible)
- Affordable & practical
- Customers want more? - negotiate and pay costs
- Build customer assurance



Grain OFFS Program Name (available to farmers as of March 2006)

PRODUCERS MANUAL



HACCP Based
On-Farm Food Safety Program



CWB GRAIN SAFETY ASSURANCE WORKSHOP

March 12 -13, 2007

Examine the operational understanding between the

supply chain participants



- Determination how 'traceability' fits with the On-farm Food
 Safety Program concept
 - Traceability
 - retention of documentation through an identity preserved supply chain that could be used to
 - (1) trace back to find the source of a problem
 - (2) trace forward to identify end use products that may have been affected



- Develop steps to meet government "Certification" requirement
- Develop audit process to ensure compliance (Certifarm)
- Determine the audit frequency
 - 4, 6 or 8 year cycle
 - one form of audit annually
 - full or partial, record review
 - self audit



- Develop a producer training program
- Develop an auditor training program
- Further enhance the Management System
 - (requires 3rd party audit)
- Establish a documentation process to determine which farms are certified, who sets standards and processes
- Provide information to farmers on the benefits of on-farm programs and market access opportunities



- Assess demand from customers and capability of competitors
- Continue and improve current approach (emphasis on meeting market demand NOT creating it)
- Extract value for new services
- Continue to let our customers know that

CANADIAN GRAIN IS SAFE!



