



Agronomy Update

Crop Production Week

January 11, 2008

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Product Development and Marketing Support



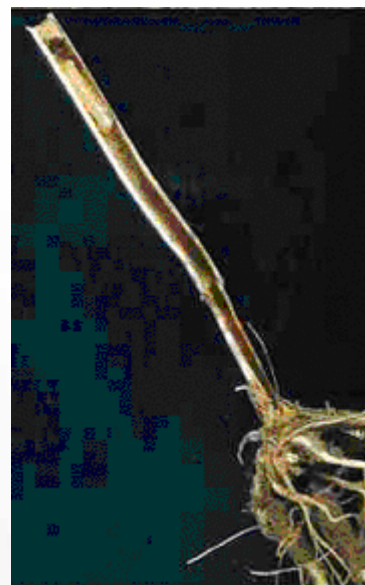
Prairie strong, worldwide

Presentation Overview

- Agronomic issues looking forward:
 - Sawfly update
 - Midge update
 - Malting Barley Storage Alert Update
- New Varieties and KVD Developments
 - 2007 CWB Variety Survey Highlights
 - Impact of General Purpose wheat and removal of KVD

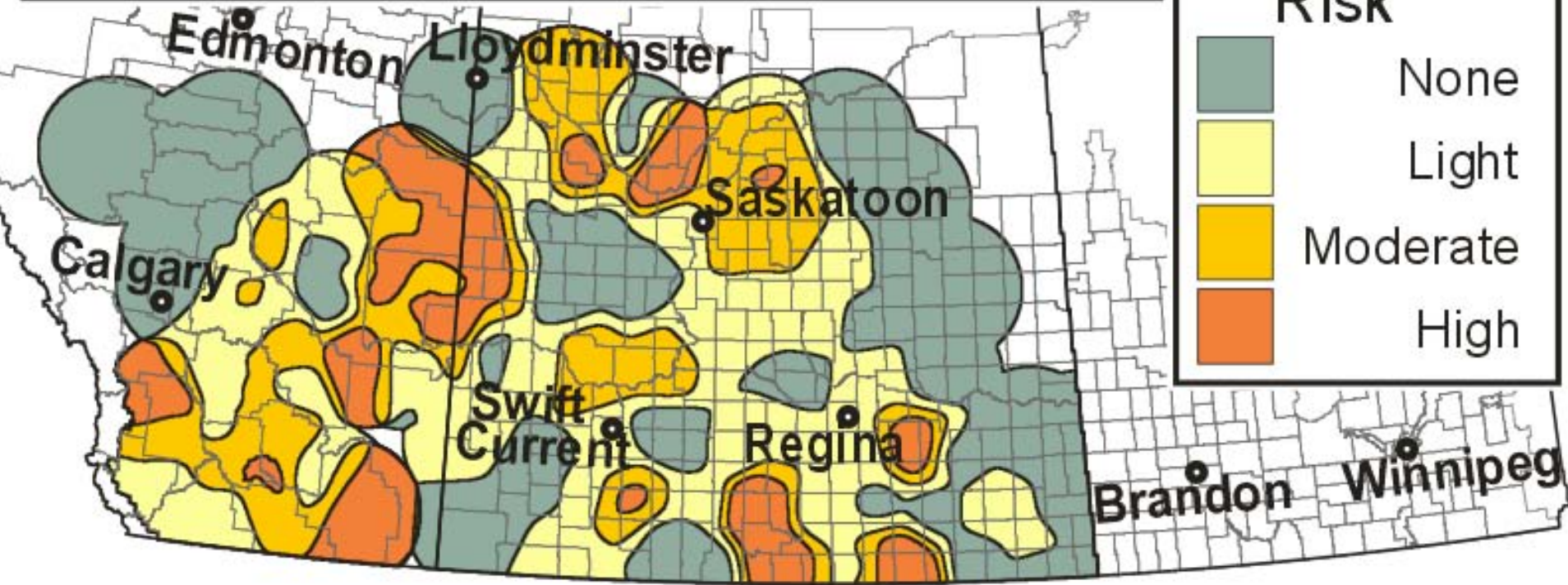
Sawfly

- No in-season control methods available for sawfly
- Crop management decisions need to be in advance of seeding
- Be aware of risk level for sawfly damage in your area



Wheat Stem Sawfly 2005 Field Margin Survey

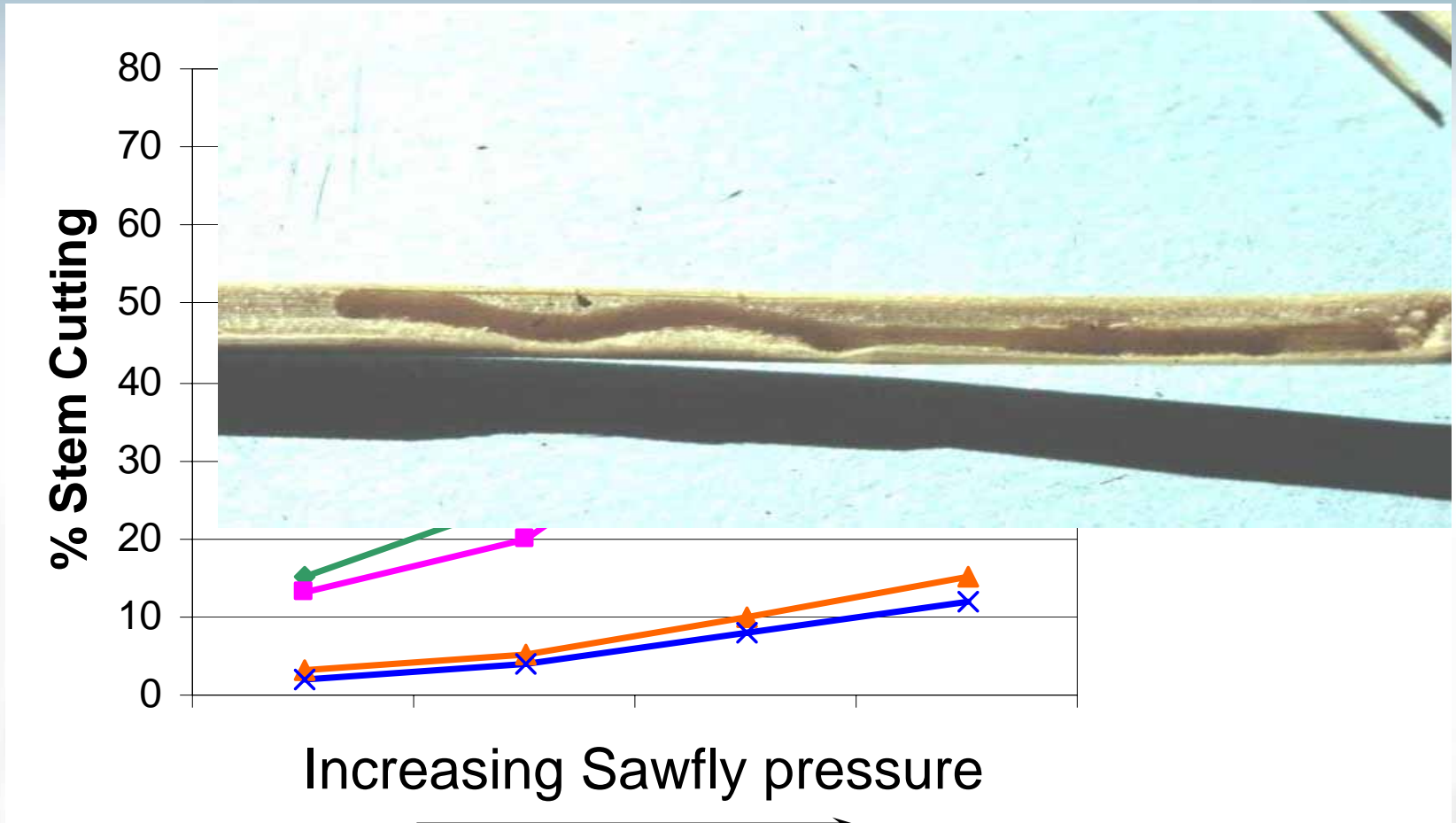
Indicated Damage Risk



Sawfly Management

- Sawfly tend to be weak fliers, fields adjacent to where sawfly damage has been observed are at highest risk
- Control methods:
 - Crop rotation out of wheat to non cereals or oats & barley
 - Use of solid stem varieties for wheat
- Must have proper expectations for control methods and your management decisions
- Need consistent approach with tolerant varieties in order to have an impact on reducing overall sawfly population

Managing expectations for sawfly stem cutting with solid versus hollow stem varieties



Source: Dr. Ron DePauw, AAFC Swift Current

Do not confuse with Wheat stem maggot

- Increased abundance observed in eastern SK and Manitoba in 2007
- Not an issue of economic significance



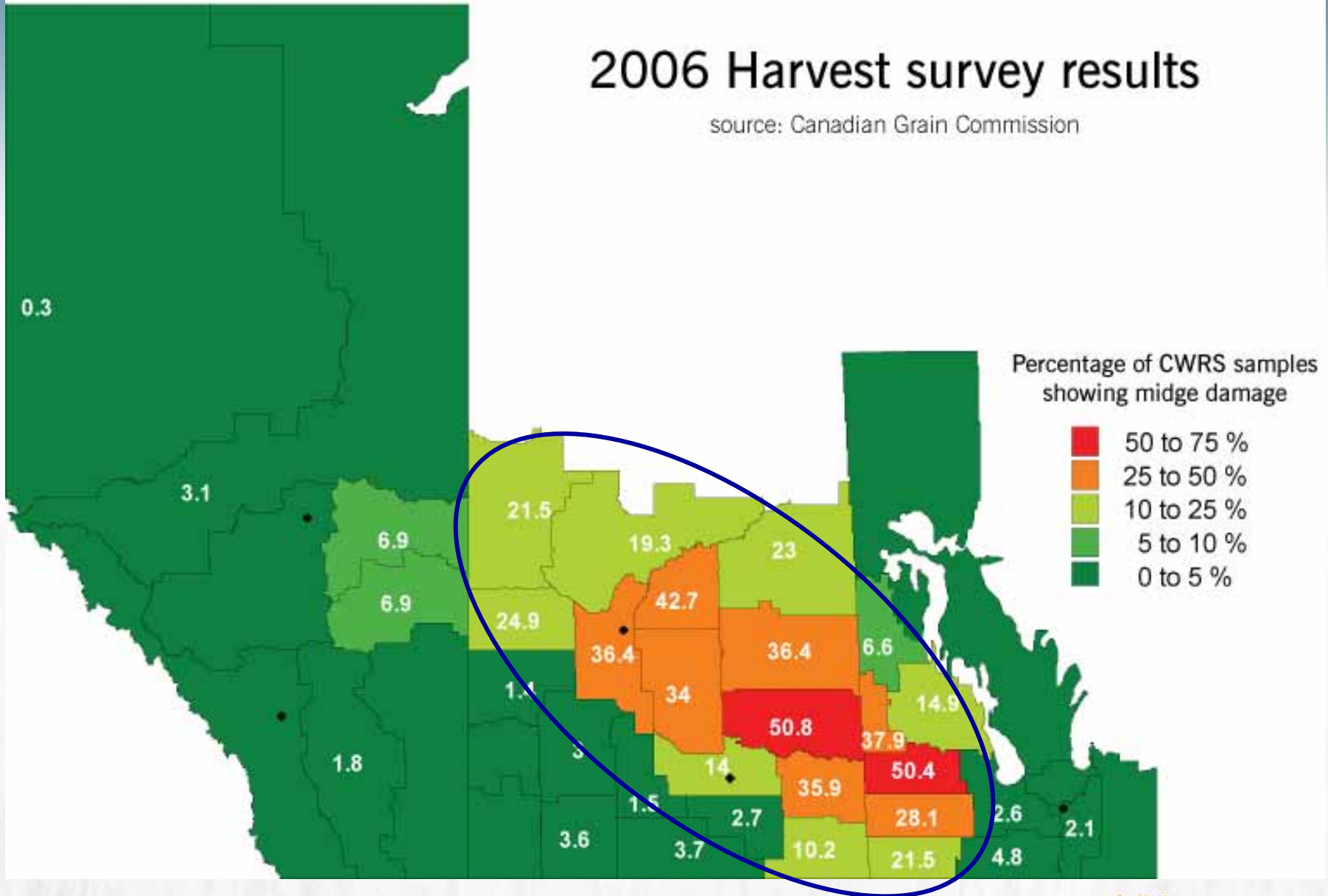
Wheat Midge

- Be aware risk for midge damage in your area
- Be prepared for timely field scouting to assess midge populations
- Be prepared to make pesticide control application



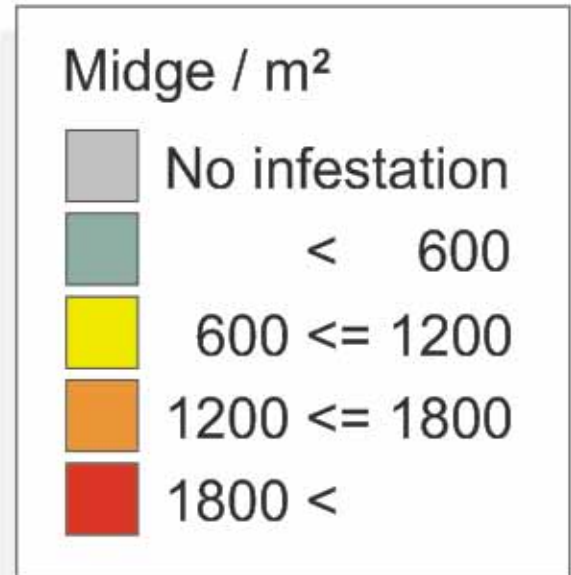
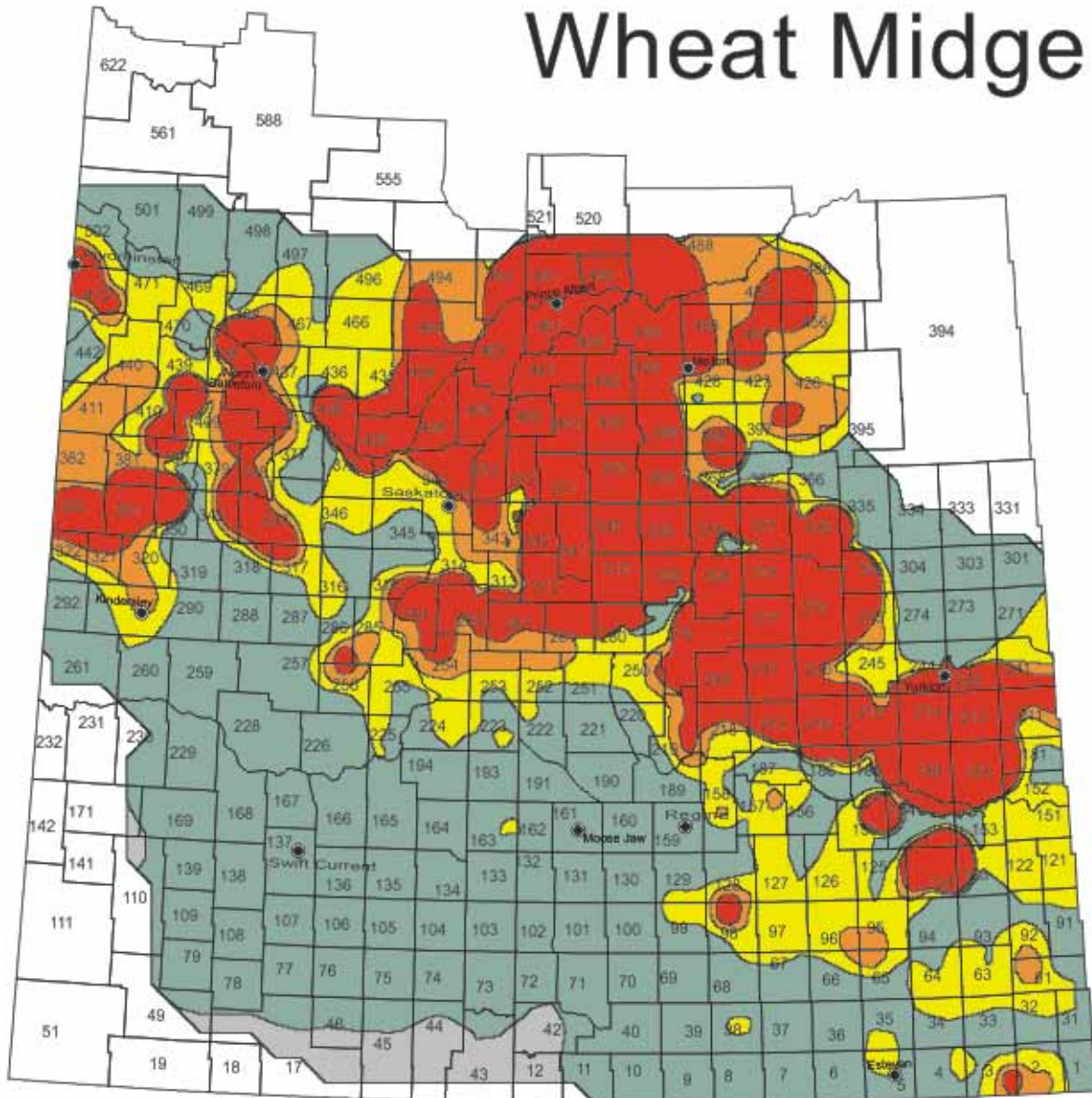
2006 Harvest survey results

source: Canadian Grain Commission



Wheat Midge Forecast 2008

 Agriculture and Agri-Food Canada Agriculture et Agroalimentaire Canada



CANADA - SASKATCHEWAN
 Crop Insurance



**Saskatchewan
Ministry of
Agriculture**

When to monitor for presence of midge?

Fig. 1

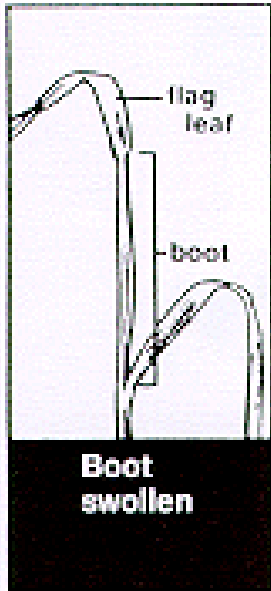


Fig. 2

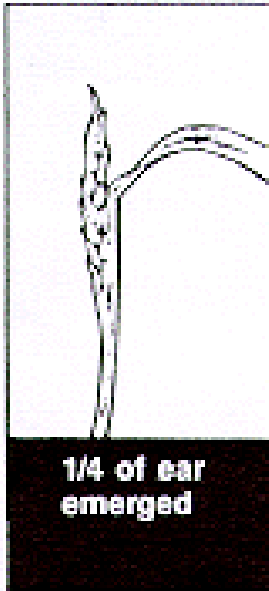


Fig. 3

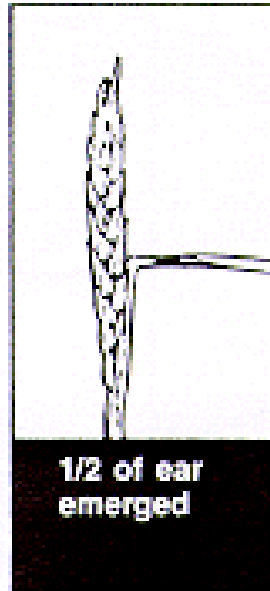


Fig. 4

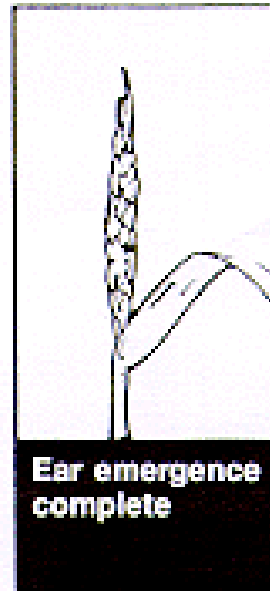


Fig. 5

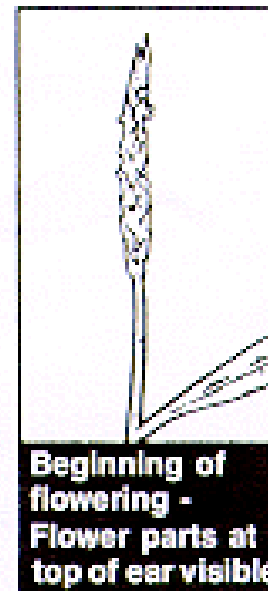
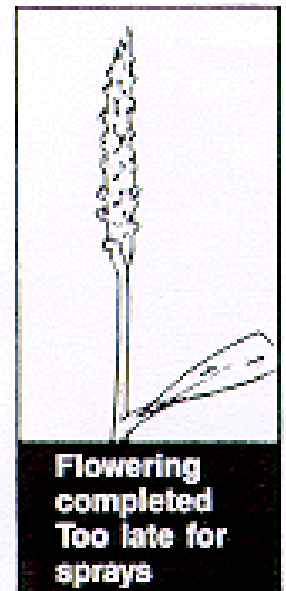


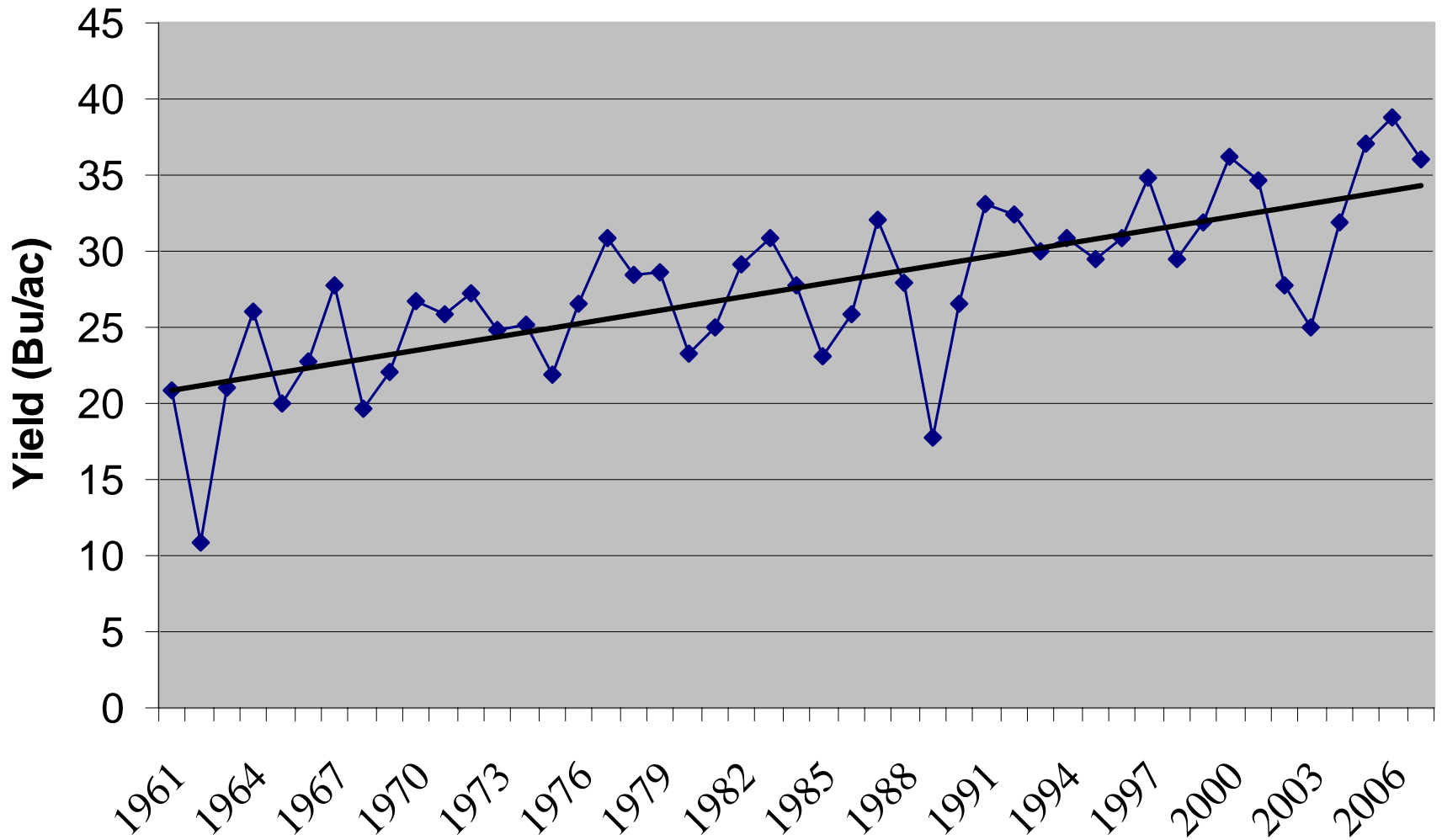
Fig. 6



Economic thresholds:

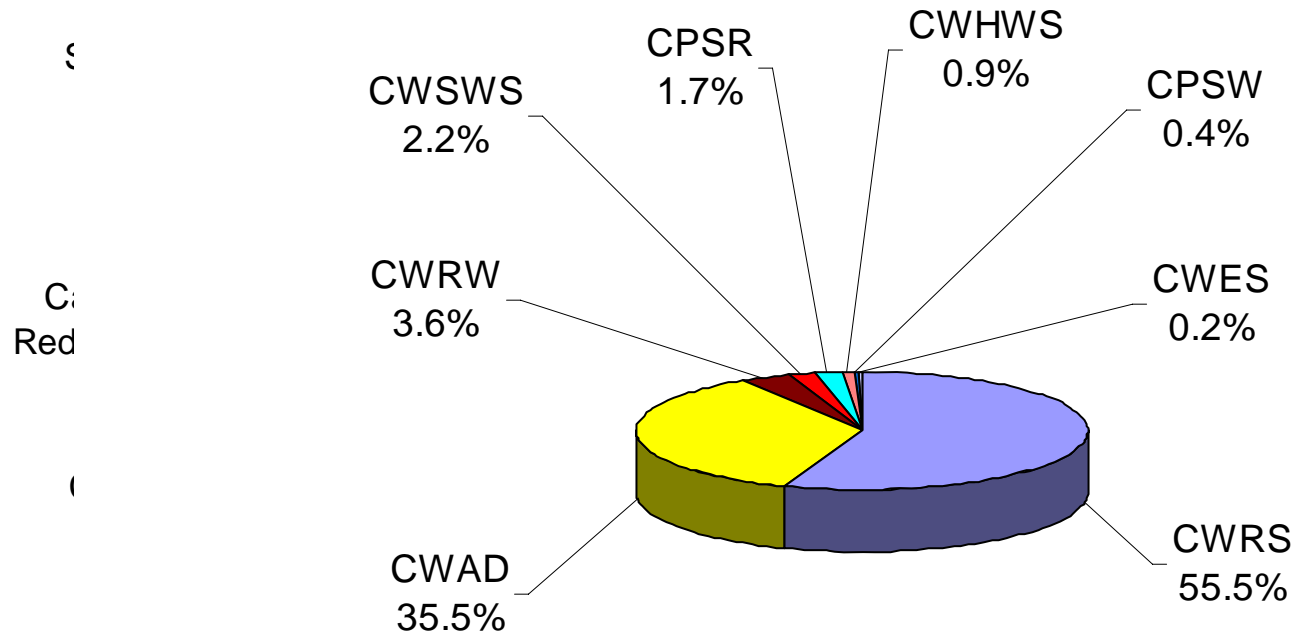
- Yield only: 1 per 4 to 5 heads
- Yield & Grade: 1 per 8 to 10 heads

Western Canada HRS Long Term Yield Trend



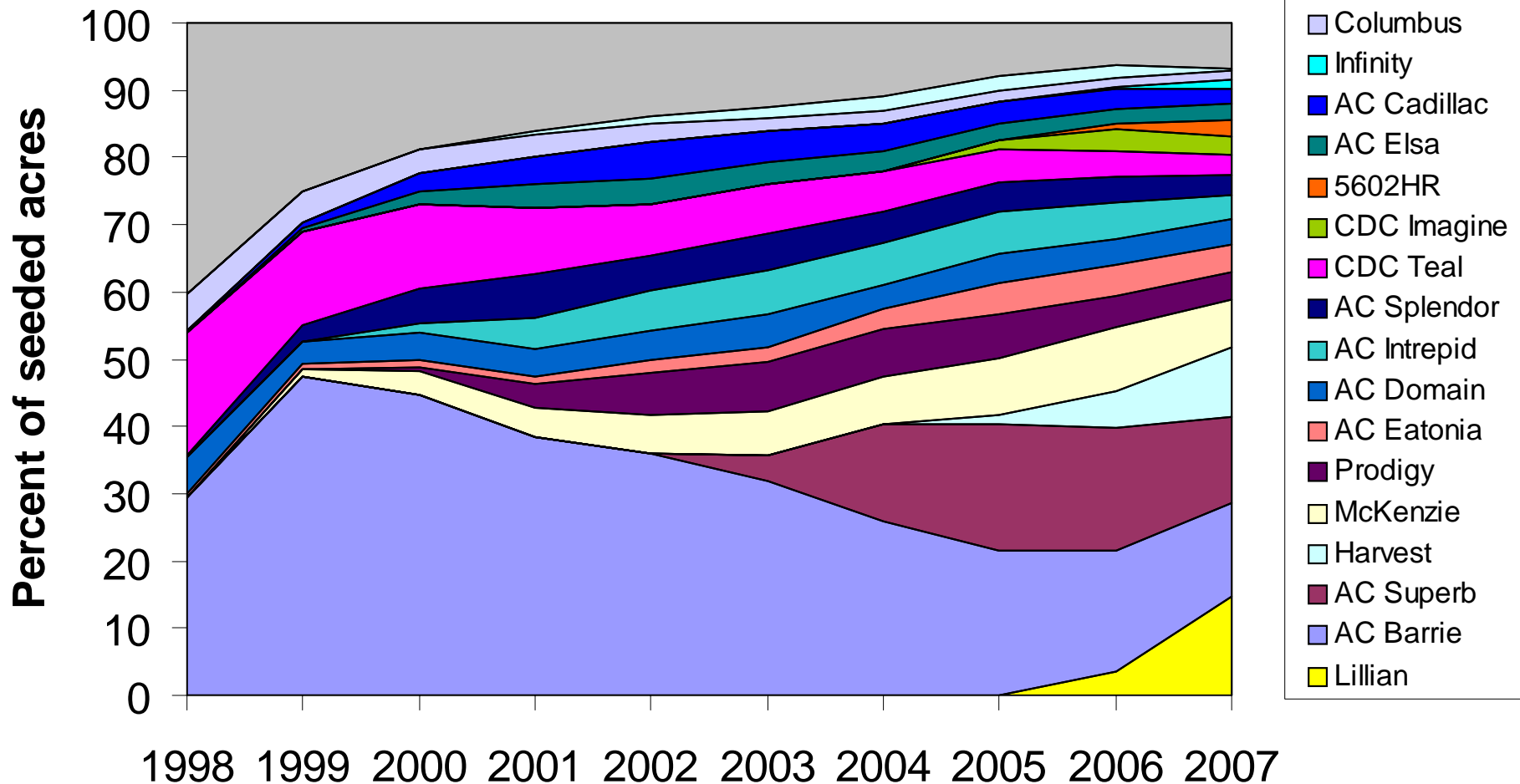
2007 CWB Variety Survey All Wheat- Prairies

2007 CWB Variety Survey All Wheat-SK



CWB Variety Survey 1998-2007

CWRS - Prairies



New wheat variety introductions since Superb in 2001

2002 to 04

SK %

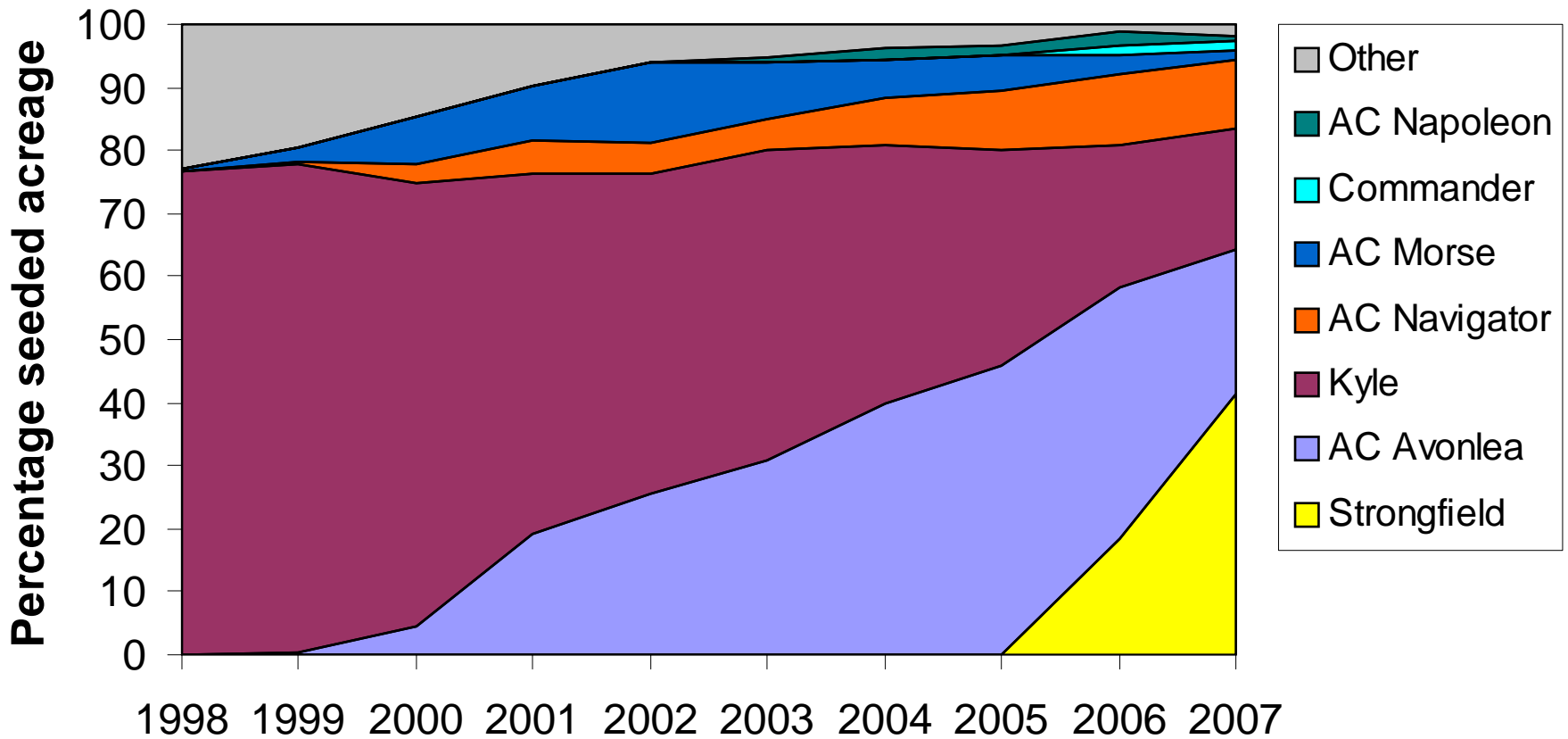
5500HR	Trace
CDC Imagine	3.8
Harvest	2.2
5601HR	Trace
Journey	Trace
Peace	Trace
Lovitt	Trace
CDC Osler	Trace
CDC Go	0.1
Lillian	19.2
Infinity	2.2
Somerset	Trace
CDC Alsask	Trace
5602HR	0.3

2005 to 07

PT425
Helios
CDC Abound (Clearfield)
Alvena
AC Kane
Goodeve (Midge tolerant)
Waskada
Unity (Midge tolerant)
BW365 (Midge tolerant)

CWB Variety Survey 1998-2007

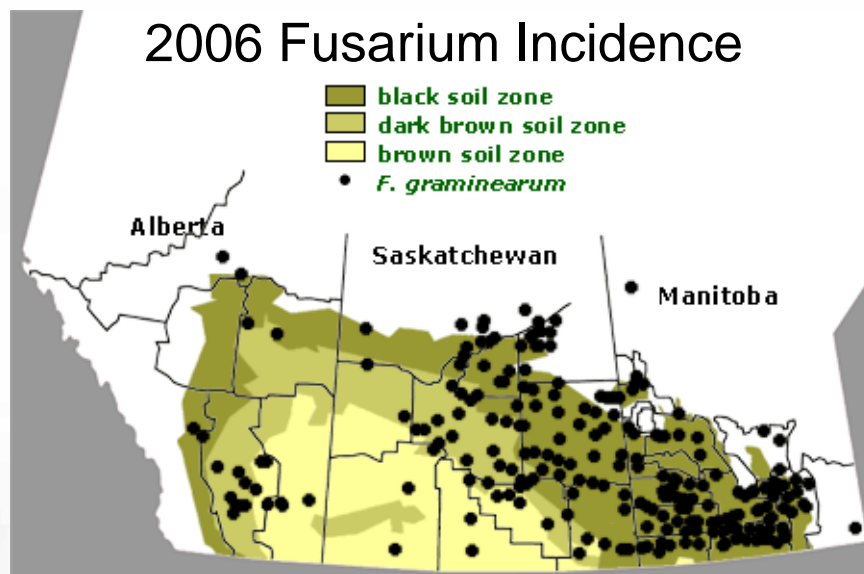
CWAD - Prairies



Hitting the durum grade outside of the core durum region – what does this mean for you?

Expectations for de-grading factors relative to grade tolerances for:

- Hard vitreous kernels
- Wheats of other classes
 - Rotations and Volunteers?
- Fusarium damage
- Midge and sawfly
 - Severe midge
- Smudge and blackpoint
 - Red smudge, Total smudge
- Sprouting
 - Severe sprouts





KVD – what it means to you

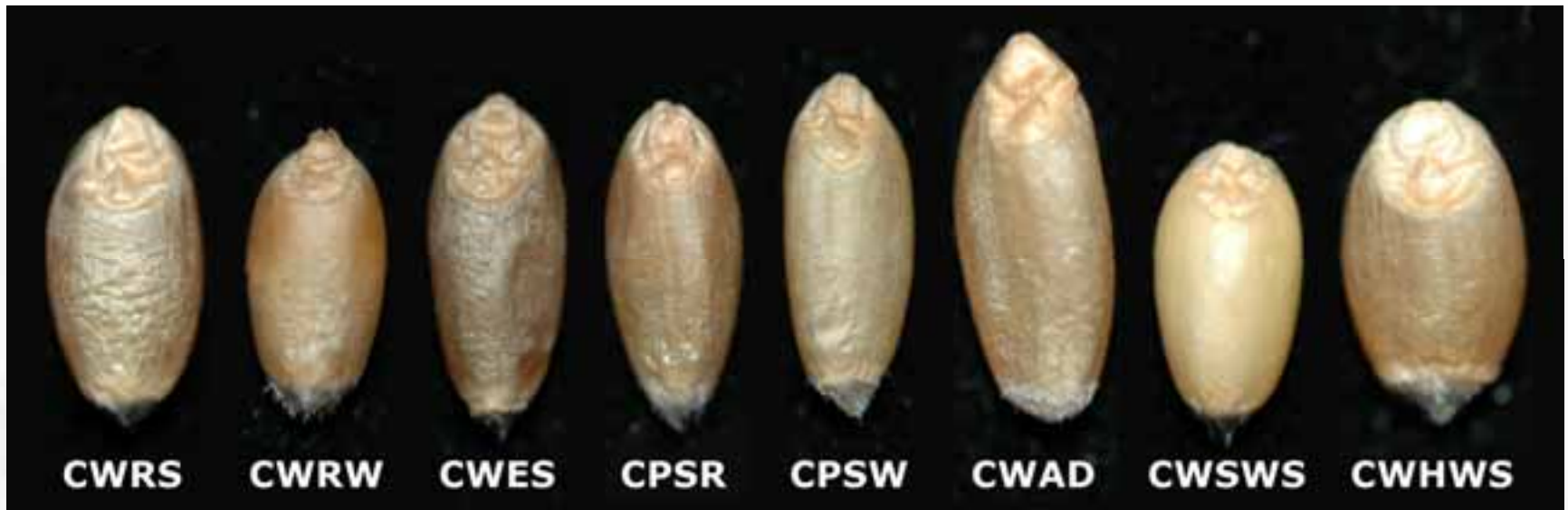
January 2008



Prairie strong, worldwide

What is Kernel Visual Distinguishability (KVD)?

- Tool to manage the Wheat Quality Assurance System (WQAS)
- Unique to Canada

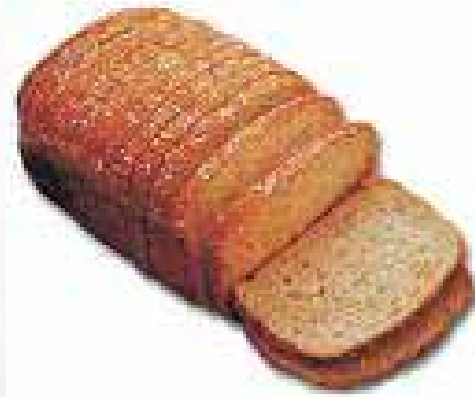


Canada Western General Purpose (CWGP) Wheat

Removal of KVD came about with the creation of the CWGP wheat class



+
VS



Timing

Current government plan

- 2008 – removal of KVD for 6 minor classes excluding Canada Western Red Spring (CWRS) and Canada Western Amber Durum (CWAD)
- 2010 – plan removal of KVD for CWRS and CWAD

KEY POINT – the government is currently considering moving the timeline on CWRS and CWAD to 2008

What it means to farmers

- Declarations
- Terminal testing
- Sample retention
- Liability
- Seed purchases

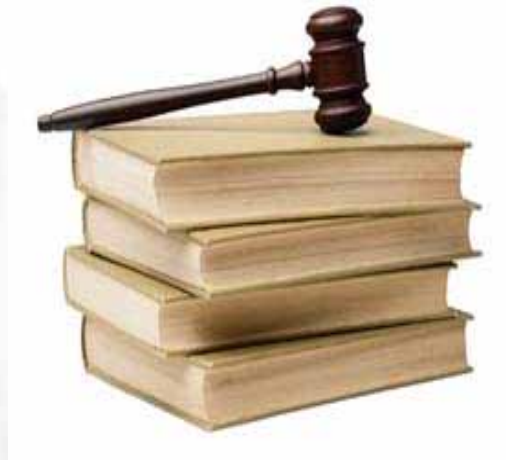


Replacement for KVD

- The CWB is working on behalf of farmers on technology development to replace KVD
 - DNA tool to identify DNA screens for CWRS, CWAD and in time other wheat class varieties
 - Aptamer based florescence tool to differentiate between wheat varieties using a 5 minute, low cost (\$20) test at a country elevator or farm yard
- KVD Working Committee – developing testing, monitoring and sample protocols necessary to move to non-visual system for wheat classification

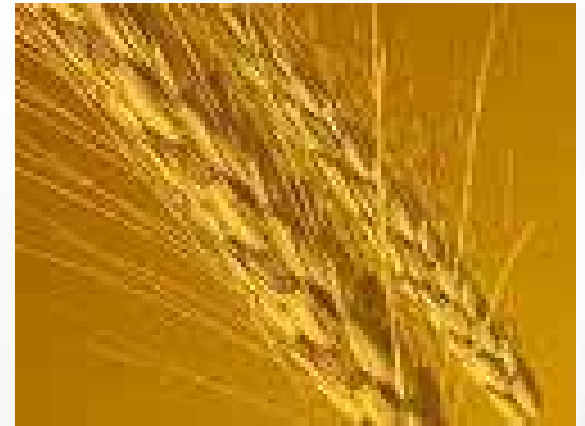
2008 vs 2010

- Varietal identification technology to replace KVD is not yet ready
- Changes to the Canada Grains Act



What do you get?

- Currently, no registration changes for varieties of Canada Western Red Spring (CWRS) and Canada Western Amber Durum (CWAD) wheats
- Less restrictions on plant breeders
- Some classes may take on the look of others
 - e.g. CW Red Winter select varieties could look like CWRS
- Higher yields – how much higher?



General Purpose Wheat - impact on variety decisions and market class eligibility

Go for high yield, or milling quality or both?

Transition reality?

- CWGP Market specifications for TW, protein, soundness (damaged kernels) and mycotoxins (FHB)?
- Eligibility and ability to meet grade standards for milling wheat classes?



US HRW Control **CWRW Select**

CWGP?

Questions?

