

CHRONIC WASTING DISEASE: Alberta's approach



Photo: SK Environment

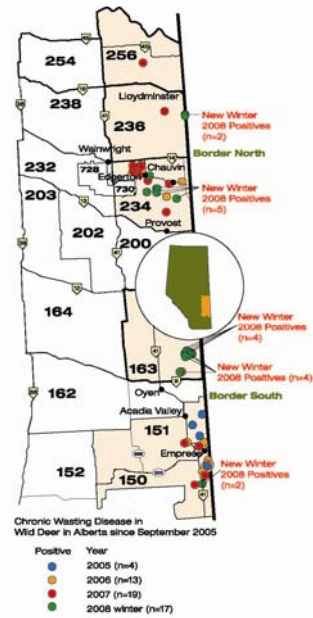
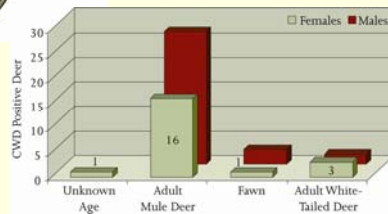
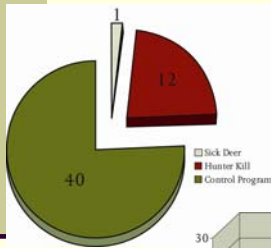
CWD Workshop
Edmonton

Aug 8/9, 2008

MJ Pybus, PhD
Provincial Wildlife Disease Specialist, Alberta Fish and Wildlife
on behalf of Alberta's CWD TEAM

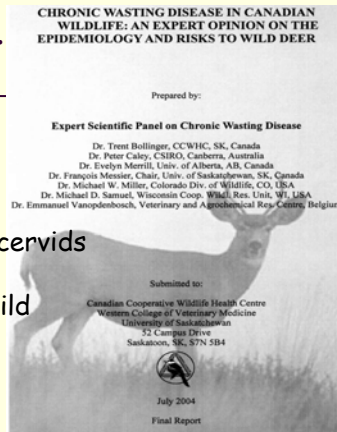
CWD Current Status (May 1, 2008)

- 53 wild deer in Alberta
- 48 mule deer, 5 white-tails
- 23% hunter-kill, 75% control



CWD Expert Panel Report

- CWD not part of native ecosystems
- CWD introduced recently to free-ranging cervids in Canada
- No natural barriers to further spread in wild deer



<http://wildlife1.usask.ca/Publications>

- Recommend <1 deer/km² of critical habitat to reduce transmission risk

Canada's National Chronic Wasting Disease Control Strategy *

- stamp out new foci
- limit spread from known areas



Primary tool: population reduction in & around affected areas

* <http://wildlife1.usask.ca/Publications/NCWDCS2005.pdf>

Alberta's Ongoing Strategy:

GOAL: find & remove infected deer; limit further spread

Hunter Component:

- Maximize testing & hunter harvest along eastern border
- Target clinical deer for surveillance
- Use targeted hunter harvest to generally reduce deer density in areas of CWD risk

Fish and Wildlife Component:

- Enhance surveillance in high risk areas
- Target winter control around new cases

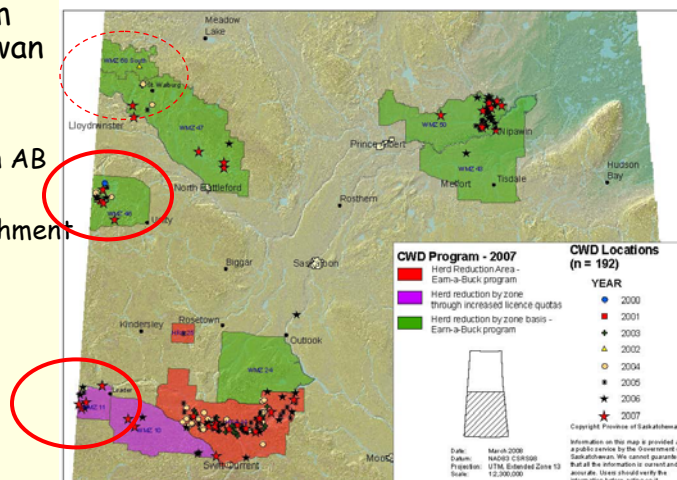
Alberta's Risk Areas

March 2008

Spillover from Saskatchewan

Recent arrival in AB

Limited establishment

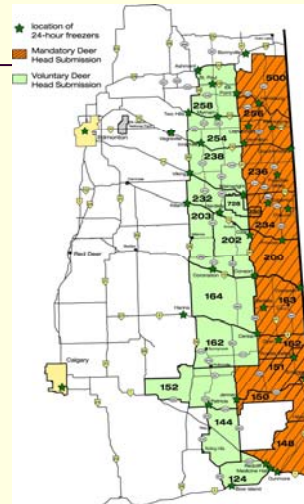


Hunter component

- Over 22,000 heads since 1998
- Tools:
 - Mandatory submission in risk area
 - Increased hunting season length
 - Increased # licences
 - Quota licences in designated CWD risk areas
 - Increased landowner opportunities

Deer with CWD: n=12

Year	# tested	# positive	Prevalence
2003	415	0	
2004	1303	0	
2005	1660	1	0.06
2006	2965	4	0.14
2007	5170	7	0.14



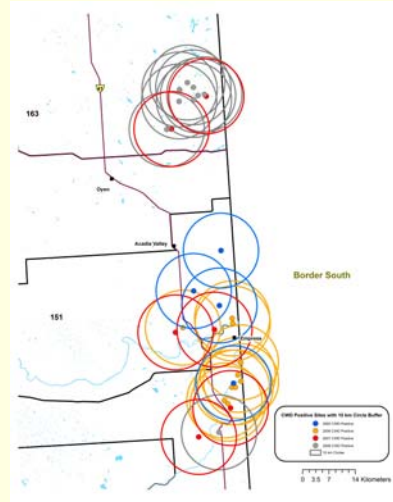
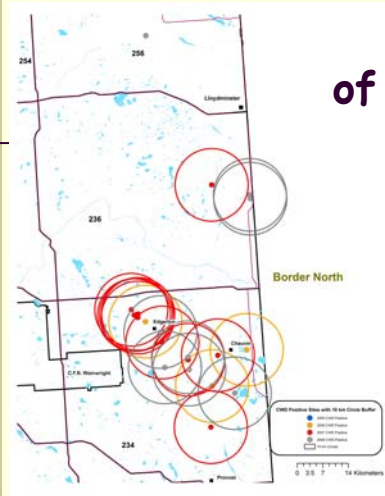
2008 fall map

Risk-based Response:

PROGRAM	Location	Response to ...
May 2001	Lloydminster	SK first positive wild deer
Winter 2003	Barrhead	3 cases in farmed cervids in central AB
Spring 2005	Chauvin	New SK wild case along border
Fall 2005	Oyen	First wild case in AB
Winter 2006	Red Deer & S. SK Chauvin (Saskatchewan*)	New fall cases & Continued herd reduction S SK river in Saskatchewan
Winter 2007	Empress Chauvin/Edgerton	New case & continued herd reduction 3 new cases & continued herd reduction
Winter 2008	Empress/S SK River Sibbald Chauvin/Edgerton Paradise Valley	New positive, cont'd herd reduction 2 new fall cases 3 new fall cases, cont'd herd reduction New fall case

* Shot by SK Environment staff

Cumulative areas of targeted CWD control



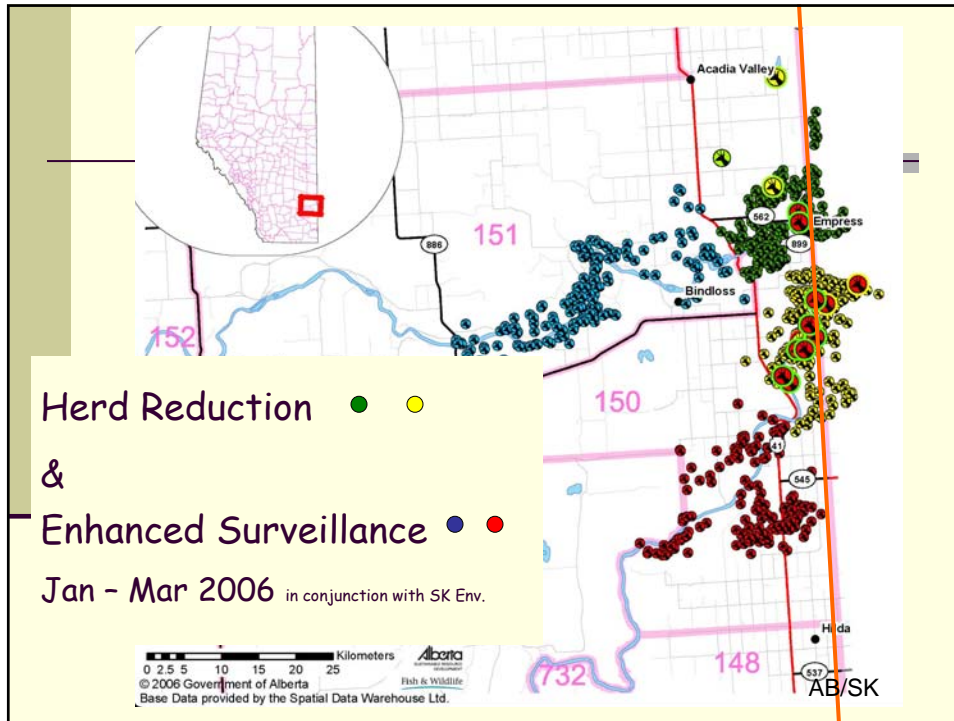
Winter 2006 enhanced *surveillance*

- Goal: to assess the extent of incursion of CWD into Alberta along primary river valleys
- Action: systematic collection of 250 deer from each of Red Deer and South Saskatchewan valleys



★ CWD wild deer 2005

AB/SK



Research ...
 deer movement, landscape use, and genetics

In conjunction with University of Alberta
 ... and parallel to similar study in Saskatchewan

Newsletter at: <http://ursus.biology.ualberta.ca/>

Peer Review of Alberta programs

Alberta Chronic Wasting Disease Management

Program Review Panel Report
(Peer Review)

- Generally supportive of provincial approach
 - Saw strength in combined approach of hunters, landowners, stakeholders & government
 - Offered suggestions to improve programs
 - Commended effort & approach by Alberta in dealing with CWD
- Report available at:
www.srd.gov.ab.ca/fishwildlife/livingwith/diseases/pdf/CWD-ABreview_FINAL.pdf

Conclusions:

Combine hunter effort and strategic response

Use herd reduction and low deer density in high risk areas to prevent further spread - interim tool until something better - such as vaccination or live animal test

Primary goal: contain CWD to manageable areas



Acknowledgements:

- An army of **Fish and Wildlife staff**
 - Officers, biologists, technicians, admin support, temporary staff
- **Landholders, hunters, guides, & residents**
- Alberta Agriculture & Rural Development

