



Canadian Food  
Inspection Agency

Agence canadienne  
d'inspection des aliments

## Canadian Food Inspection Agency



### ***Chronic Wasting Disease (CWD)***

***(National Cervid Industry Statistics 2006 - 2015)***

#### **Our vision:**

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

#### **Our mission:**

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

***RDIMS#: 8016766***

***Animal Health Directorate***

**Canada**

# Statistical Summary

1. In 2015 the # of captive cervid herds and animals are 50% and 33% of what they were in 2006
2. QC has most deer
3. AB / SK have most elk
4. Cervid population decreasing but # CWD cases increasing
5. QC and SK have similar enrollment in the CWD voluntary herd certification program. AB has a significantly higher number of farms on the program
6. Limited exports

# Statistical Summary

## 1. Limited exports

1. Top 2 AB exporters account for 51% and top 5 AB exporters account for 74% of total live animal exports
2. AB account for 90% of total semen and embryos export shipments
3. Velvet production is currently less than 50% of what it was in 2007
4. Velvet exports in 2015 were worth approximately the same as the 2007 exports

## 2. Sales of Meat and Velvet account for 2/3<sup>rd</sup> of the industry's income. **Neither of these commodities will be restricted by proposed changes to the CFIA program**

# National Farmed Cervid and Farmed Cervid Herd Numbers by Province and Year

Western Canada - 70% of the national cervid herd of which 96% in the West are in AB and SK

Year	BC		AB		SK		MB	
	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds
2006	3,848	31	38,515	572	38,192	572	3,323	54
2007	1,881	19	33,131	415	34,921	582	3,184	59
2008	1,825	17	27,576	385	29,616	497	2,415	52
2009	953	18	19,180	326	25,500	448	2,167	50
2010	789	16	19,173	310	22,421	448	1,341	36
2011	831	16	16,520	273	20,574	408	1,336	31
2012	759	16	13,558	243	20,229	294	1,252	30
2013	686	16	12,533	212	18,267	336	1,168	29
2014	457	19	11,686	196	18,197	334	1,090	33
2015	434	12	12,778	184	15,596	286	724	19

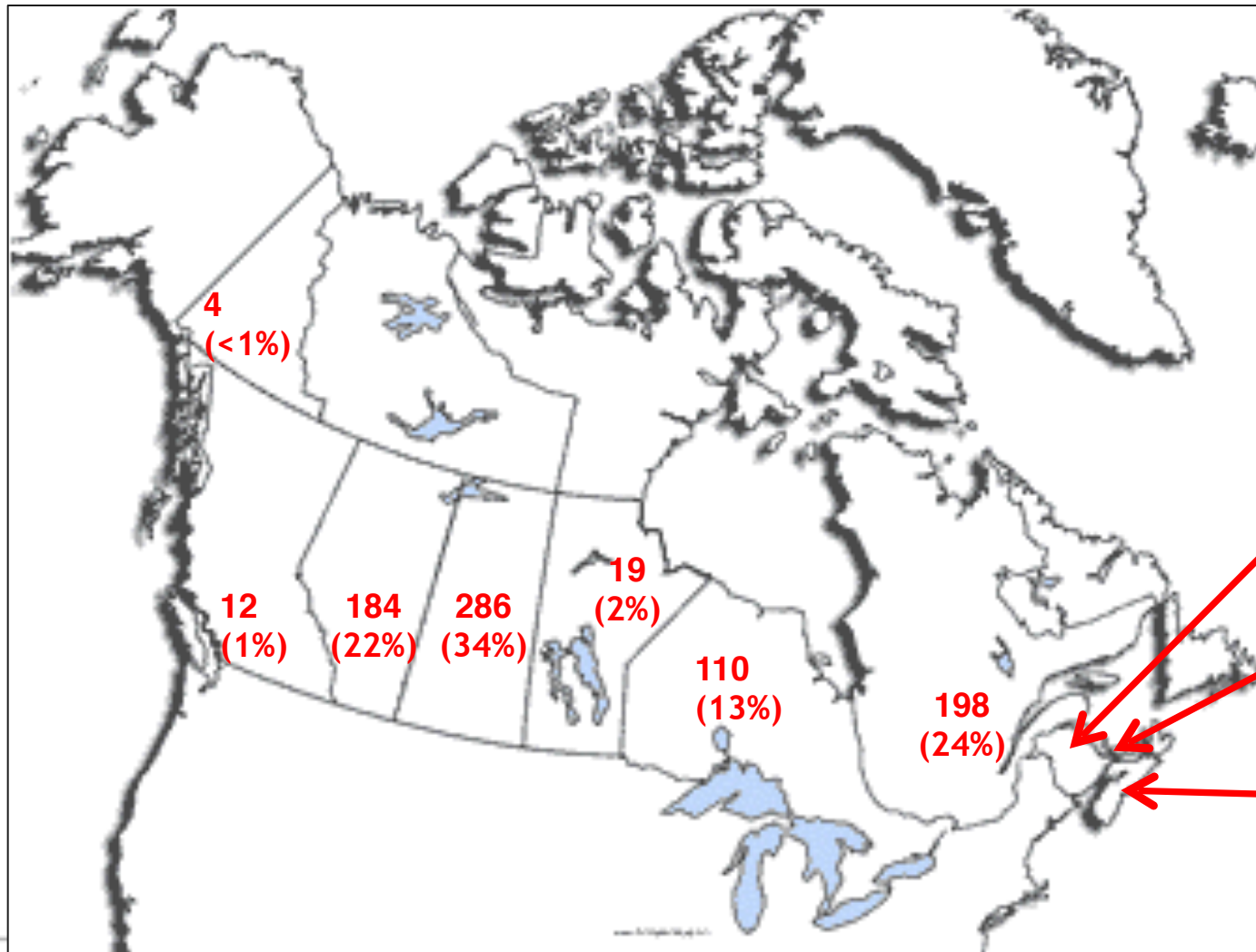
# National Farmed Cervid and Farmed Cervid Herd Numbers by Province and Year

Eastern Canada - 30% of the national cervid herd of which 95% in the East are in Quebec and Ontario

Year	ON		QE		NB		NS		PEI		YK	
	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds	Number of Cervids	Number of Cervid Herds
2006	12,400	130	22,667	622	410	14	251	6	0	0	110	4
2007	10,095	137	22,731	540	410	14	238	8	0	0	69	3
2008	7,500	120	21,981	490	410	14	230	7	0	0	69	3
2009	6,700	105	21,981	490	360	14	230	7	0	0	69	3
2010	6,100	100	21,981	490	360	14	230	7	0	0	54	3
2011	5,200	86	12,221	396	360	14	230	7	0	0	66	4
2012	4,608	108	12,317	297	383	16	277	7	0	0	66	4
2013	4,015	130	11,739	198	405	18	324	8	1	1	67	3
2014	3,240	110	9,117	198	369	13	230	7	8	1	73	4
2015	3,240	110	9,117	198	369	13	230	7	8	1	73	4

# National Farmed Cervid Herds in 2015

Total Number of Herds: 834



**NB: 13**  
(1%)

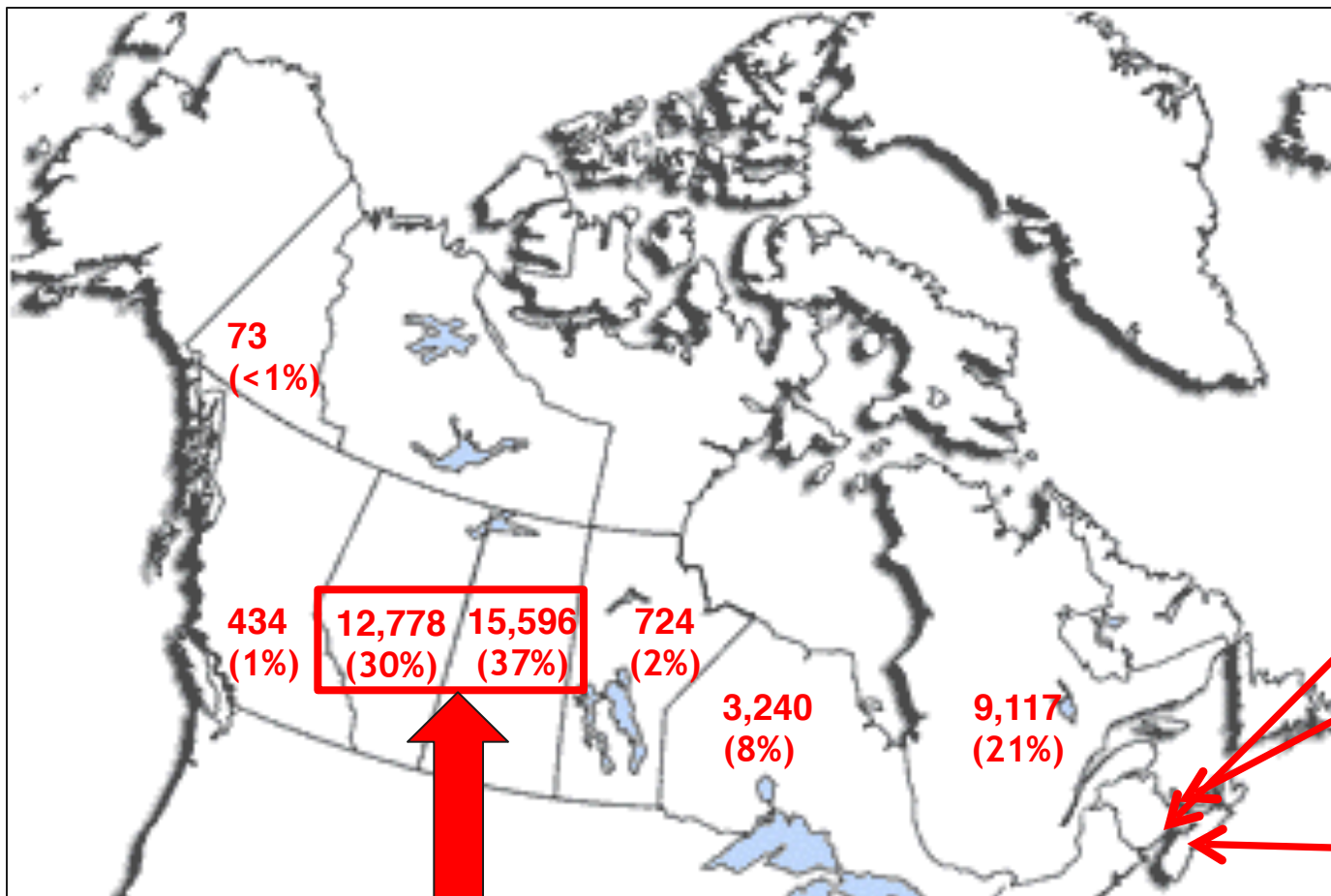
**PEI: 1**  
(<1%)

**NS: 7**  
(<1%)



# National Farmed Cervid Animal Numbers in 2015

Total Number of Animals: 42,569



67% of the national herd resides in AB and SK

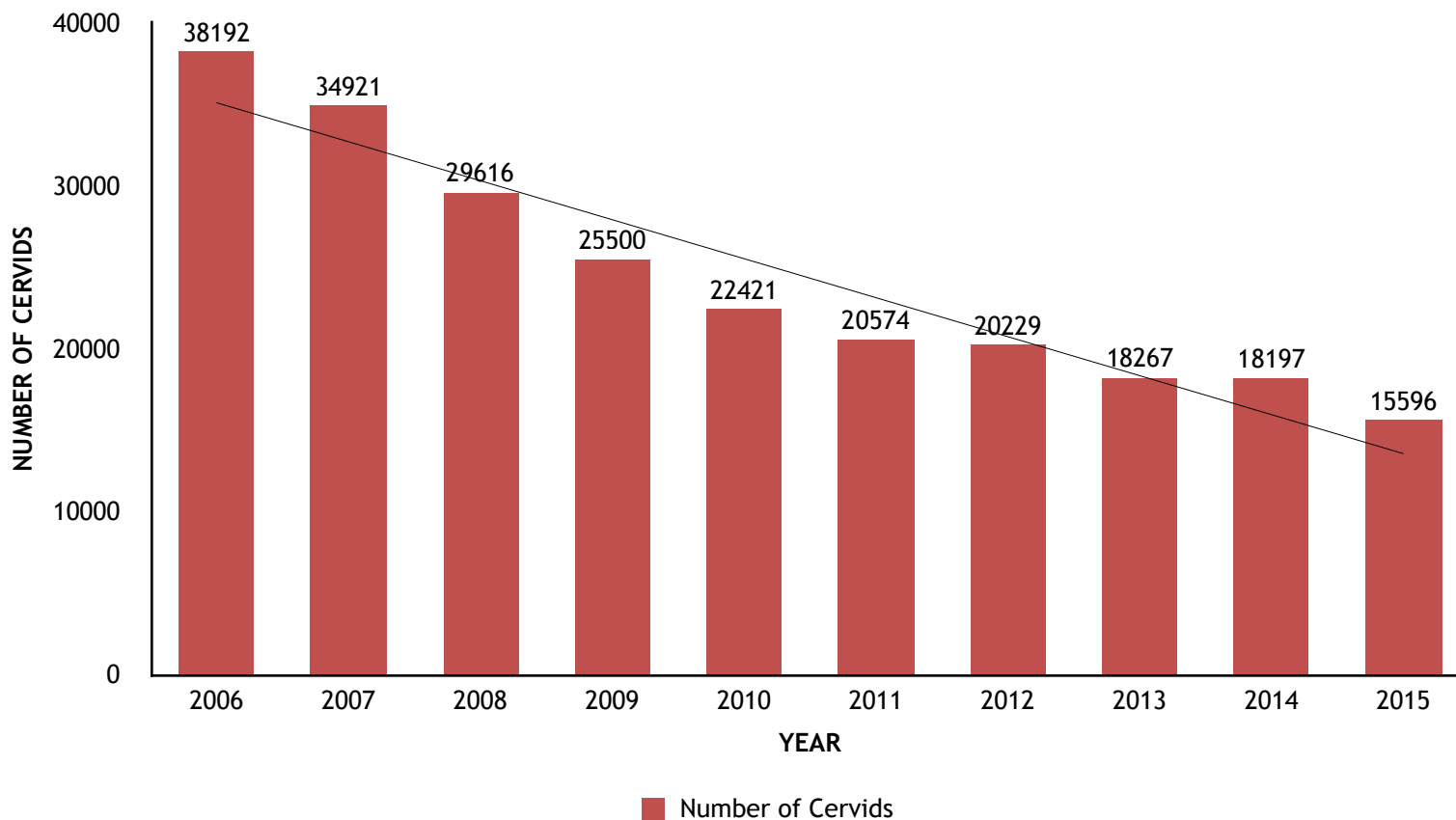
## Saskatchewan Cervid Demographic and CWD in Farmed Cervid Herds from 2006 to 2015 (where all but two of the total CWD cases have occurred since 2006)

- Even though there has been a decrease in the total number of farmed cervid animals and the total number of cervid farms in SK (slides 15 and 16), the incidence of CWD has been increasing (slides 17, 18, 19).
- Compensation for cervids ordered destroyed due to CWD (1996 to 2015) has been approximately \$54.3 million.



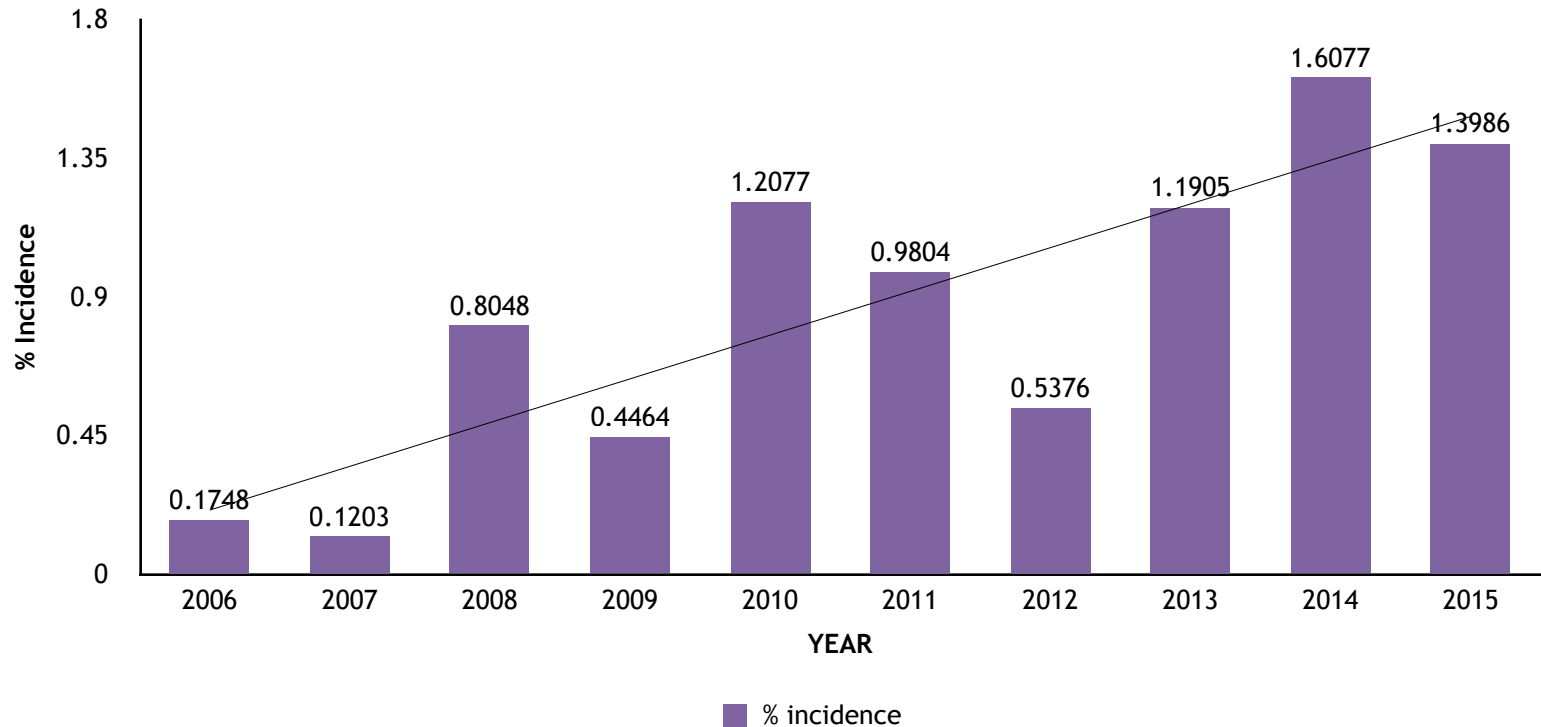
# Decrease in the Total Number of Farmed Cervids in Saskatchewan Since 2006

## Total Number Of Cervids In SK By Year

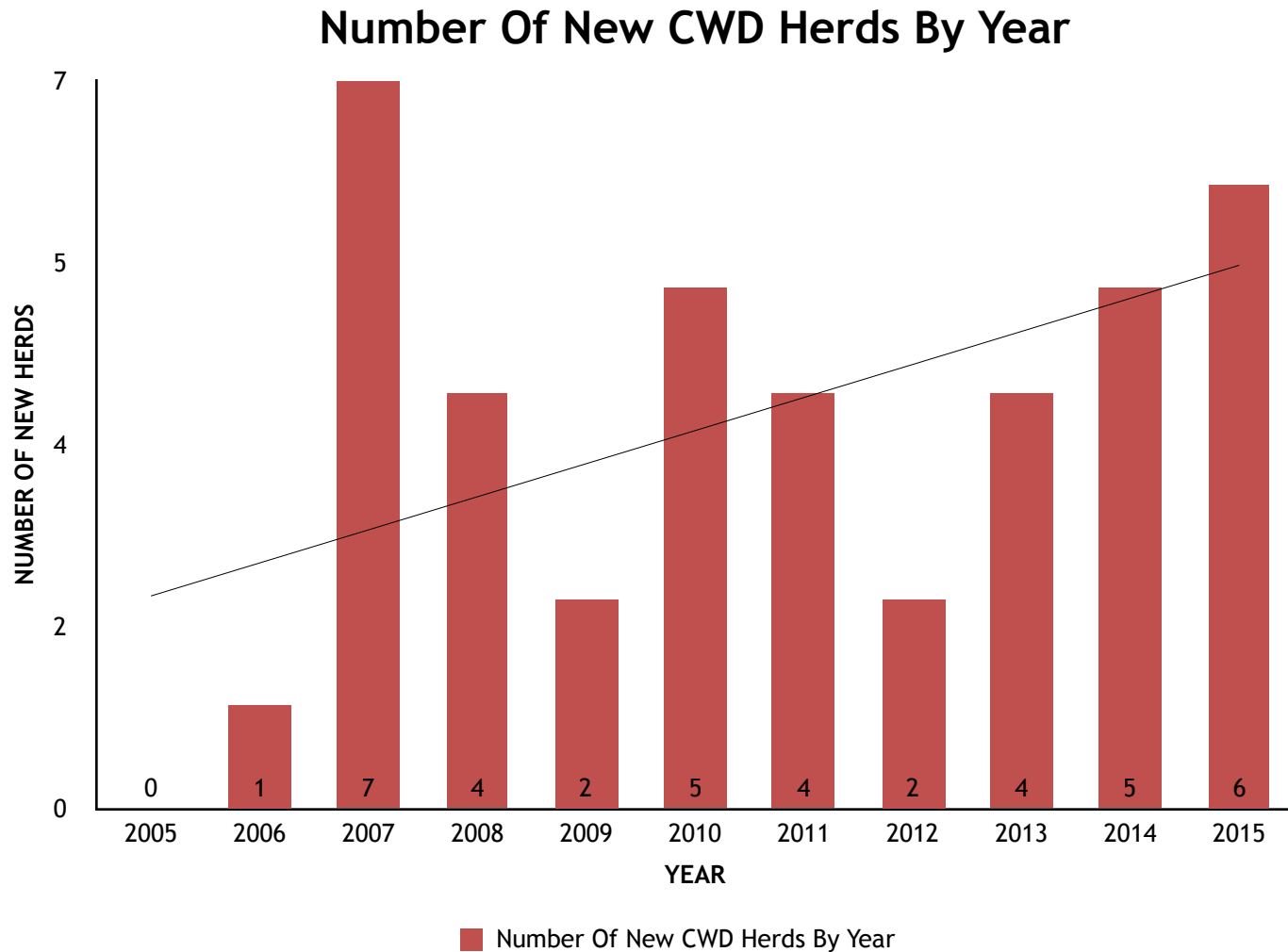


# Increase in Incidence of CWD in Saskatchewan Farmed Cervid Herds Since 2006

**% Incidence (number of CWD positive herds compared to the total number of cervid herds) in SK By Year (excludes 2 herds in AB in 2015)**

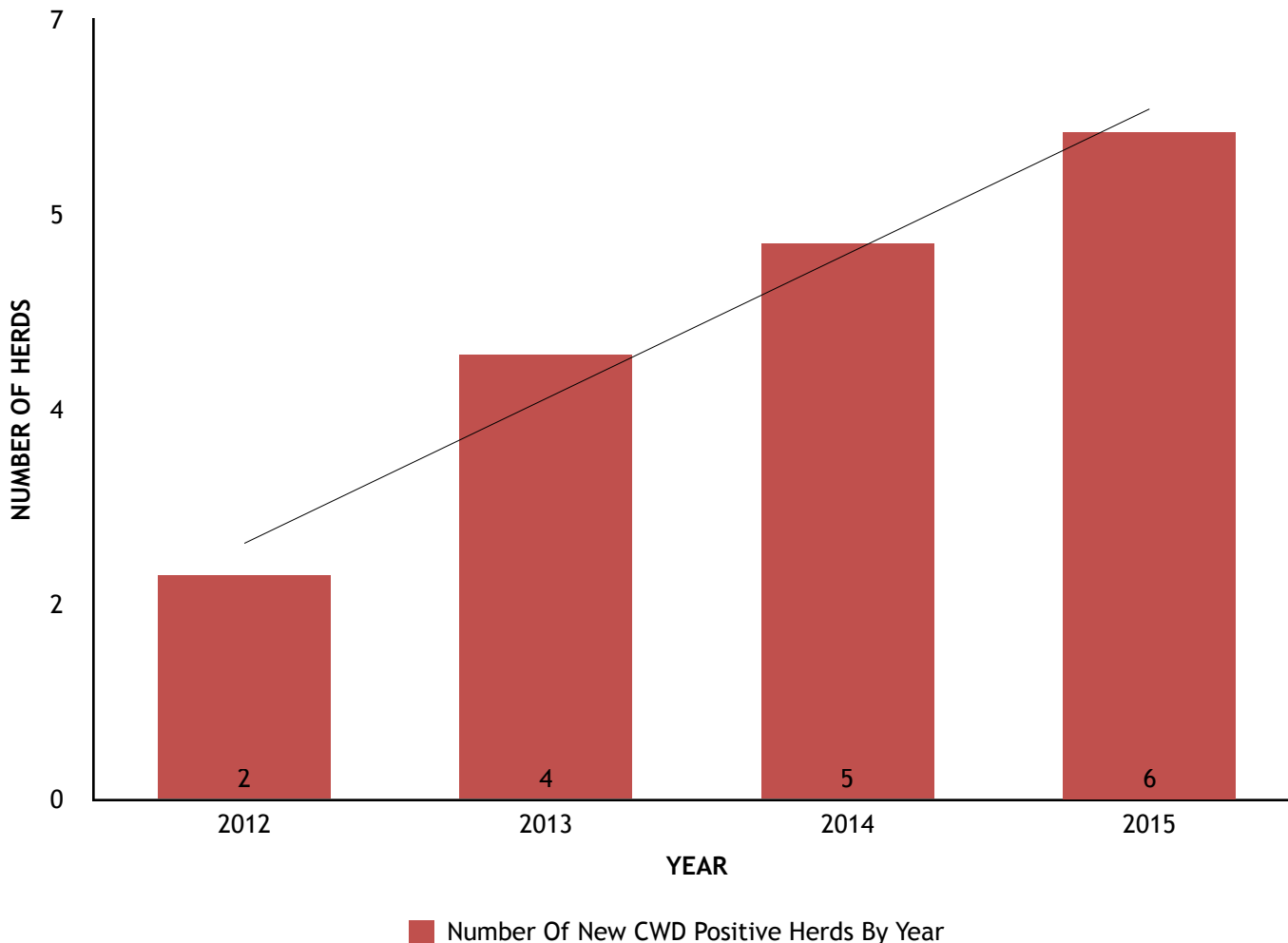


# Number of New CWD Positive Farmed Cervid Herds By Year (SK and AB)

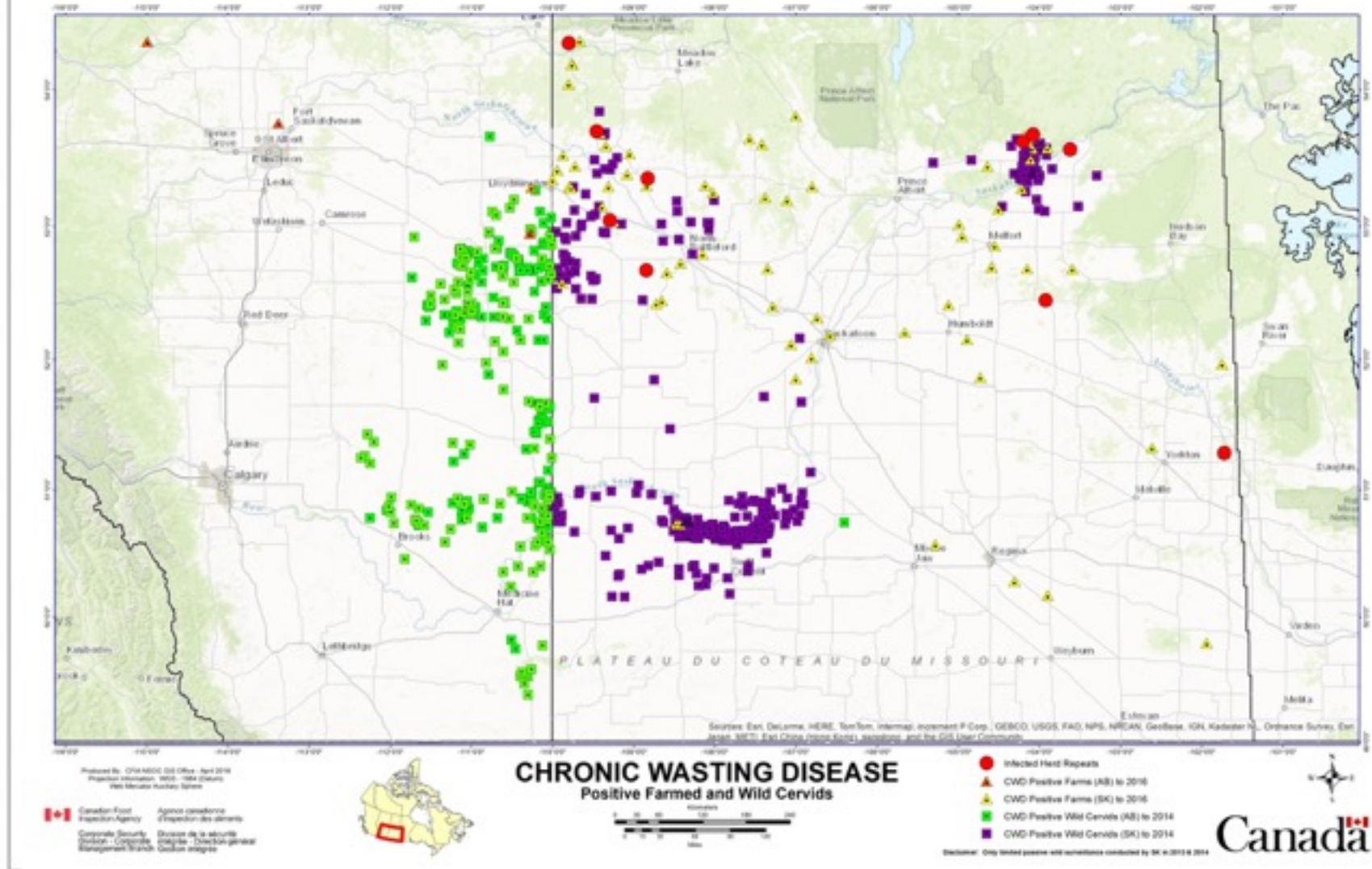


# Number of New CWD Positive Farmed Cervid Herds (SK and AB) in Just the Past Four Years (2 new cases already in 2016)

## Number Of New CWD Positive Herds By Year



# CWD in Farmed and Wild Cervids in Canada – Includes Two New Farmed Cervid Herds in SK in 2016 (red dots are farmed cervid herds that had a repeat outbreak following C & D)



# National Farmed Cervid Statistics and Enrolment in the CWD VHCP - 2015

\*Over half of the cervids in MB are located in one herd

Province	Total Number of Farmed Cervids	Total Number of Farmed Cervid Herds	Total Number of Farmed Cervid Herds on the Chronic Wasting Disease Voluntary Herd Certification Program (CWD VHCP)	
BC	434	12	Certified: 1	Total enrolled = 1
AB	12778	184	Certified: 55 Level A: 0 Level B: 7 Level C: 4 Level D: 5 Level E: 0	Total enrolled = 79
SK	15596	286	Certified: 15 Level A: 3 Level B: 2 Level C: 0 Level D: 0 Level E: 1	Total enrolled = 21
MB*	724	19	Manitoba does not have a provincial CWD VHCP (in the process of development)	
ON	3240	110	Certified: 7 Level A: 0 Level B: 0 Level C: 1 Level D: 0 Level E: 0	Total enrolled = 8
QC	9117	198	Certified: 18 Level A: 0 Level B: 1 Level C: 0 Level D: 0 Level E: 0	Total enrolled = 19
NB	369	13	NB, NS and PEI do not have provincial CWD VHCPs	
NS	230	7		
PEI	8	1		
YK	73	4	Certified: 1 Level A: 0 Level B: 0 Level C: 0 Level D: 0 Level E: 0	Total enrolled = 1
<b>Total =</b>	<b>42569</b>	<b>834</b>		<b>TOTAL ENROLLED = 129</b>

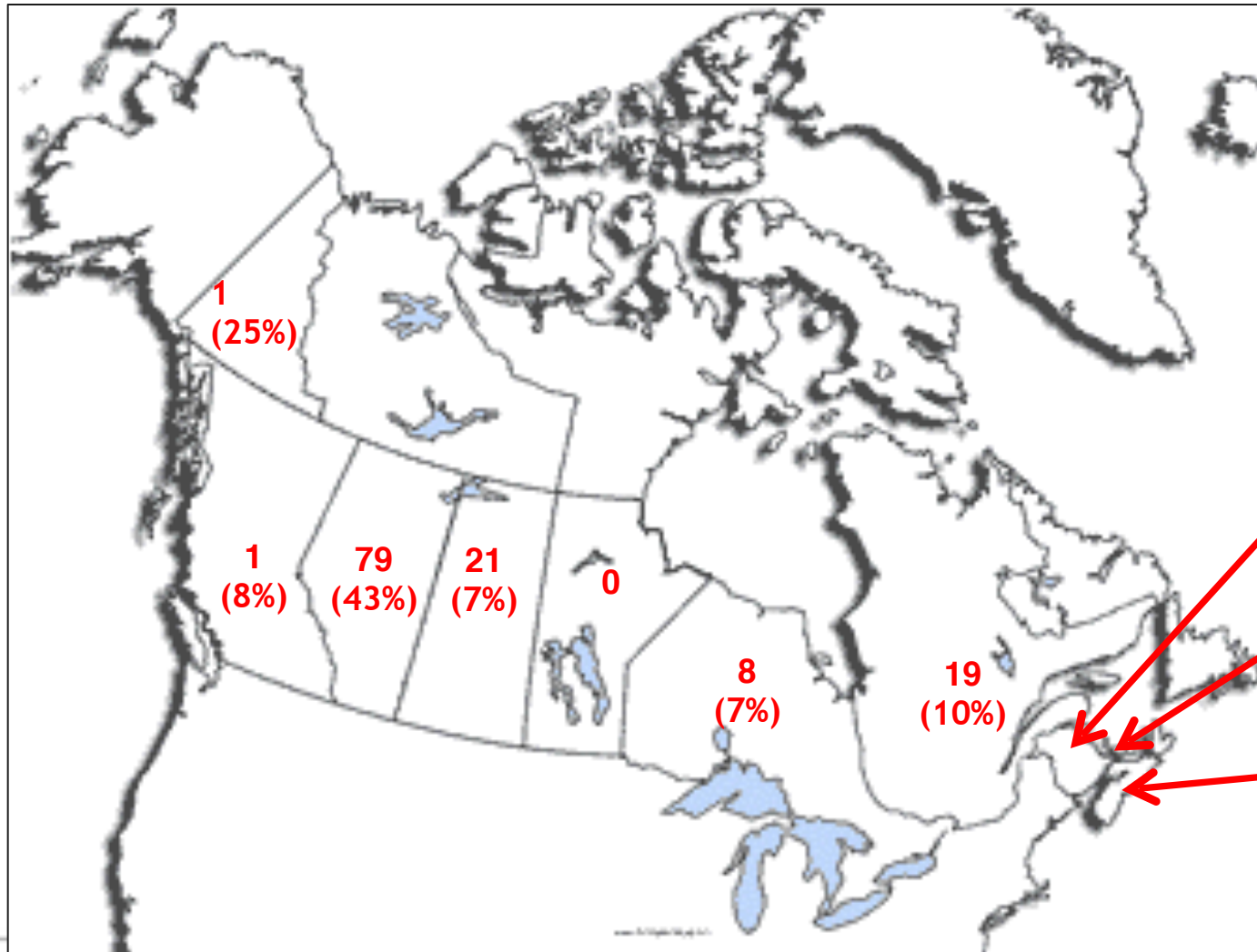
Information collected from multiple sources





# Number of Herds Enrolled in the CWD Voluntary Herd Certification Program in 2015 (% enrolled to provincial herd number)

Total Number of Herds Enrolled: 129



NB: 0  
PEI: 0  
NS: 0

# Deer industry

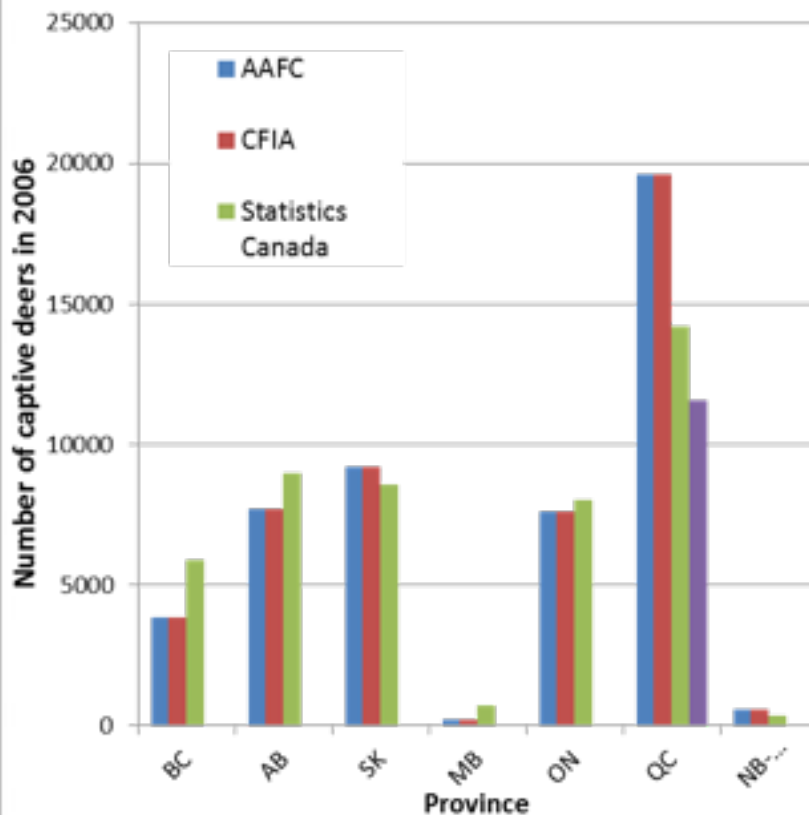
QC has the majority of the captive deer population

Value of the commodity:

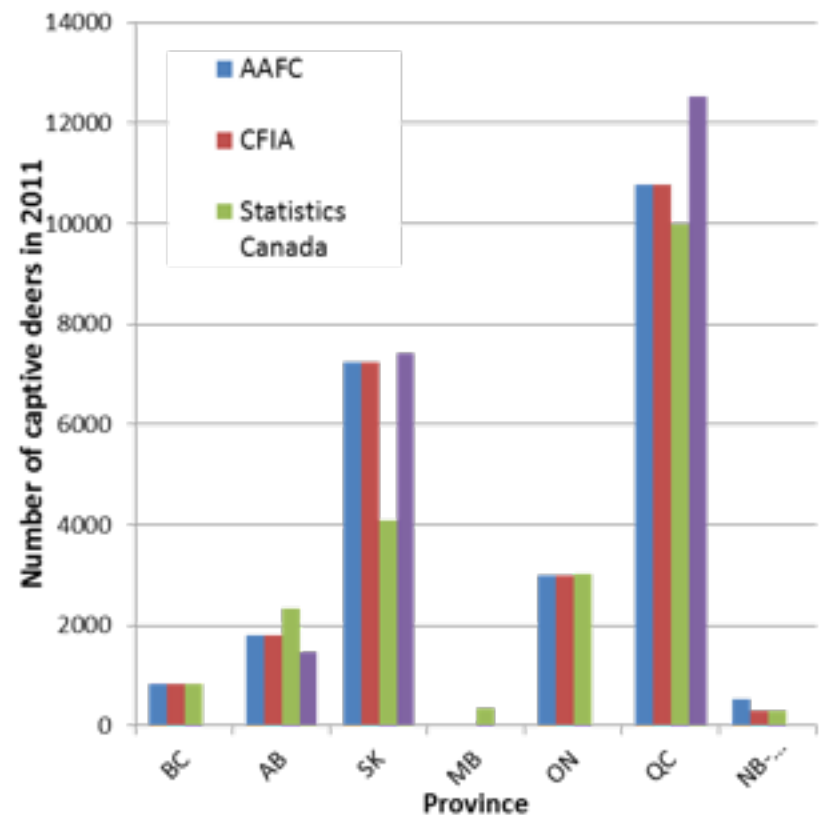
- sales of live animals to hunt farms in QC, SK and the US

# Number of Captive Deer Per Province According to Different Data Sources

## 2006



## 2011



# Elk Industry

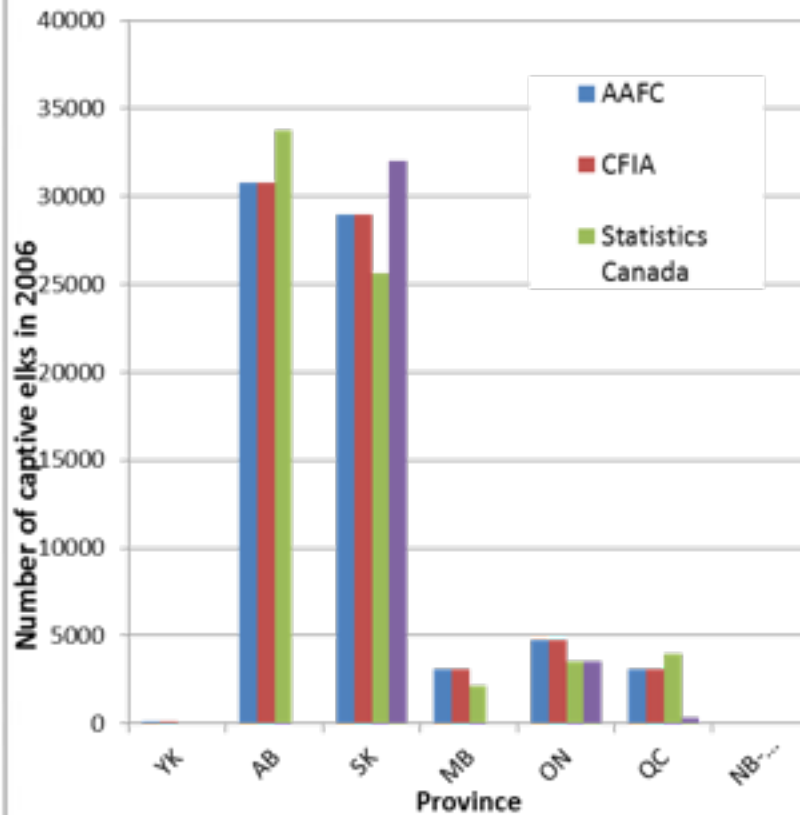
AB and SK have the majority of captive elk

Value of this species are in:

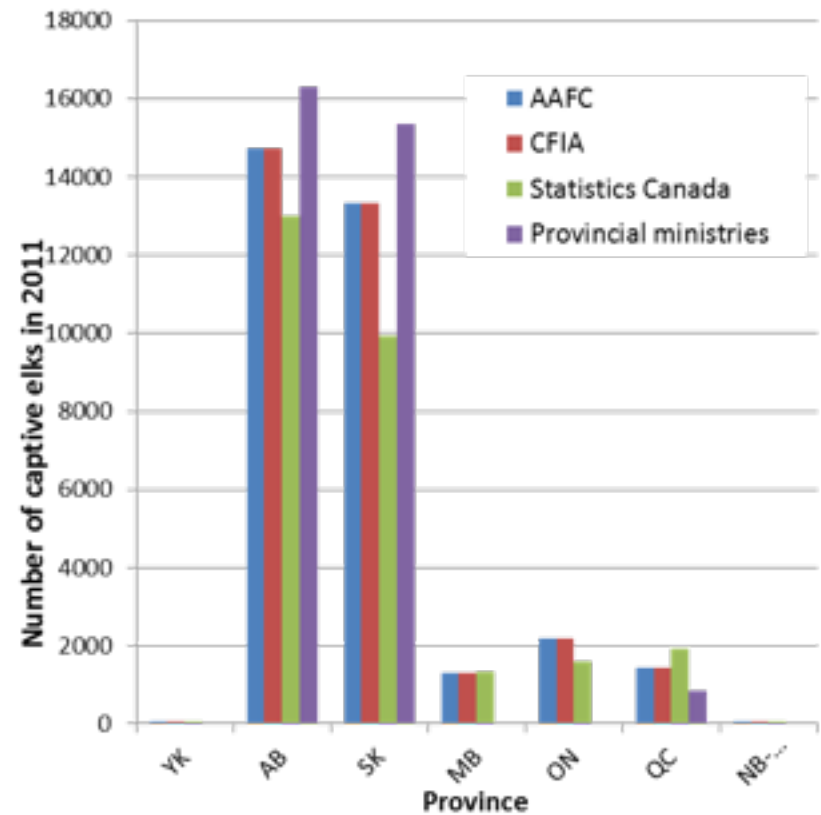
- Velvet
- Meat
- Live animals for breeding and hunting

# Number of Captive Elk Per Province According to Different Data Sources

## 2006

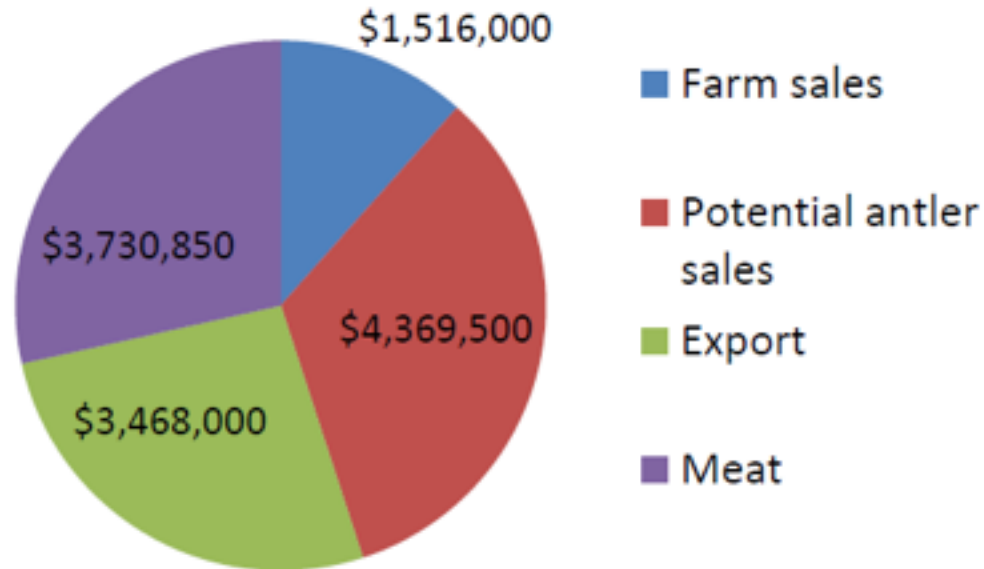


## 2011



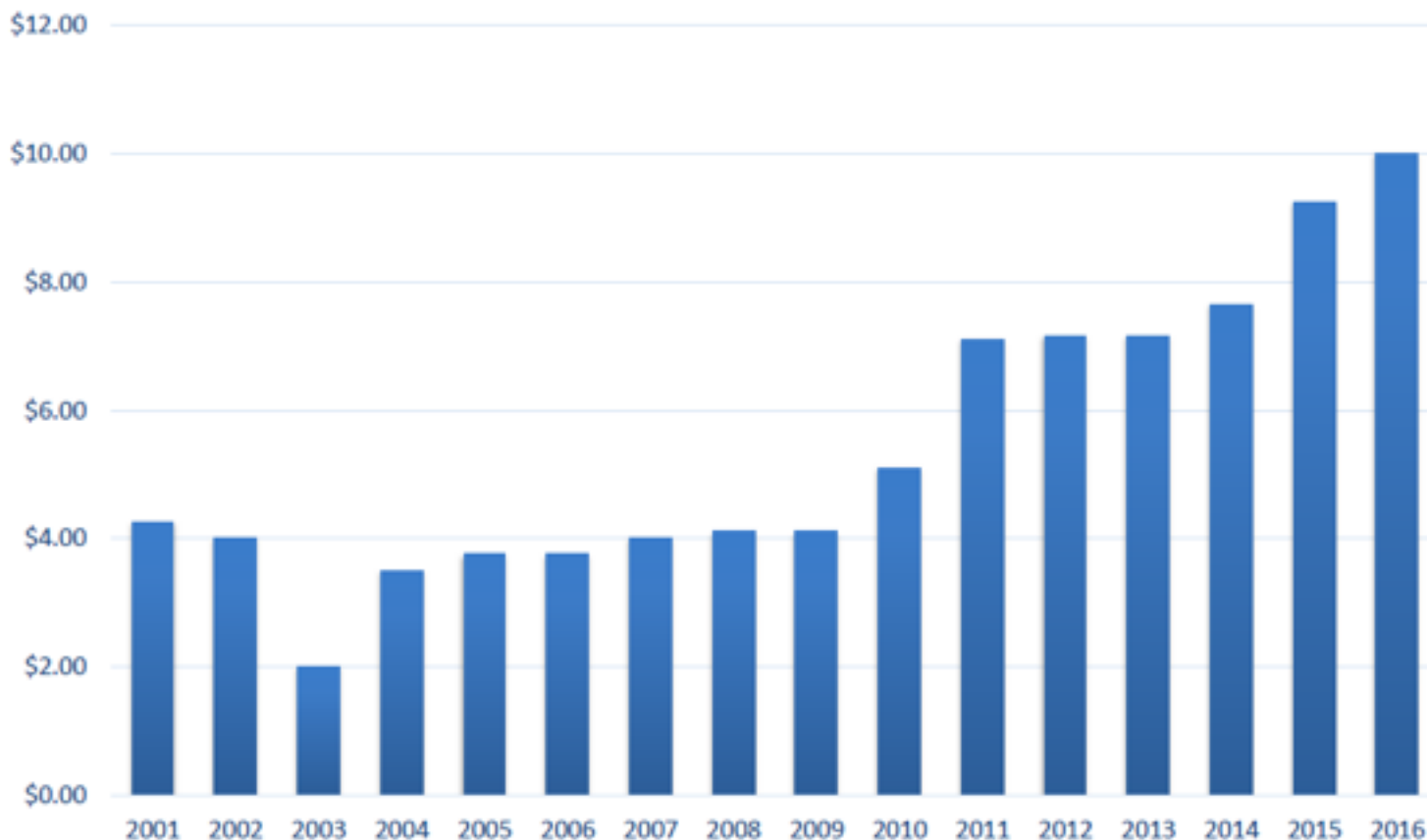
# 2015 value of sales from AB elk industry

- Farm sales + Antler + Export + Meat = ~ **\$13.1 M**





# Elk Carcass Price /Kg



# Total value of industry

## Live animals

- exports of live cervids from SK and AB account for 98.5% of total Canadian live exports
- Majority are exported direct to slaughter, few to hunt farms and even fewer for other purposes

## Semen and Embryos

- Exports from AB account for 90% of total semen and embryos shipments

## Velvet

- 2015 production less than 50% of 2006 production
- 2015 product similar in total value to the total value of the 2007 production

## Elk Meat (venison)

- Commodity increasing in value

# Live Canadian Farmed Cervid Exports - 2015

Province	United States		Russia (Permanent)	Provincial Total
	Slaughter	Permanent		
AB	867	149		1016
MB		6		6
ON		14		14
SK	297	53	220	570
<b>Canada Total=</b>	1164	222	220	1606

Information from AAFC, provinces of SK and AB



# Live Cervid and Cervid Product Exports

	Deer	Elk	Semen	Embryos
2007	299	626	433	60
2008	151	456	472	0
2009	139	213	105	0
2010	224	506	270	214
2011	111	570	4410	0
2012	40	479	201	562
2013	2	1043	897	0
2014	0	932	862	0
2015 *	222	1164	0	0

\* latest data for semen / embryos is Sept 2014  
 Information from AAFC and provinces of AB and SK

# Canadian Farmed Cervid Velvet Exports (Quantity/Value)

Year	Velvet (tonnes)	Value (\$ Canadian)
2007	68	4,315,198
2008	47	3,000,999
2009	80	4,074,558
2010	56	5,027,882
2011	51	2,762,687
2012	23	1,940,621
2013	32	3,605,011
2014	25	3,300,000
2015	28	2,800,000

- Information from AAFC
- Velvet exports would not be affected by any of the CFIA options



# Average hunt bull prices based on antler score

Category	2015
340-360	\$4,000
361-380	\$4,500
381-400	\$6,000
401-420	\$7,500
421-440	\$9,000- \$9,500
441-460	\$10,000 +
461-480	\$11,000 +
481-500	\$15,000 +
500+	Negotiated





# Average Elk Hunt Bull Prices Based on SCI Antler Score

<b>Category (SCI Score)</b>	<b>2015 Average (In Canadian \$)</b>
<b>360 – 369</b>	4,258.00
<b>370 – 379</b>	4,625.00
<b>380 – 389</b>	4,975.00
<b>390 – 399</b>	5,308.00
<b>400 – 419</b>	6,004.00
<b>420 – 439+</b>	8,041.00

