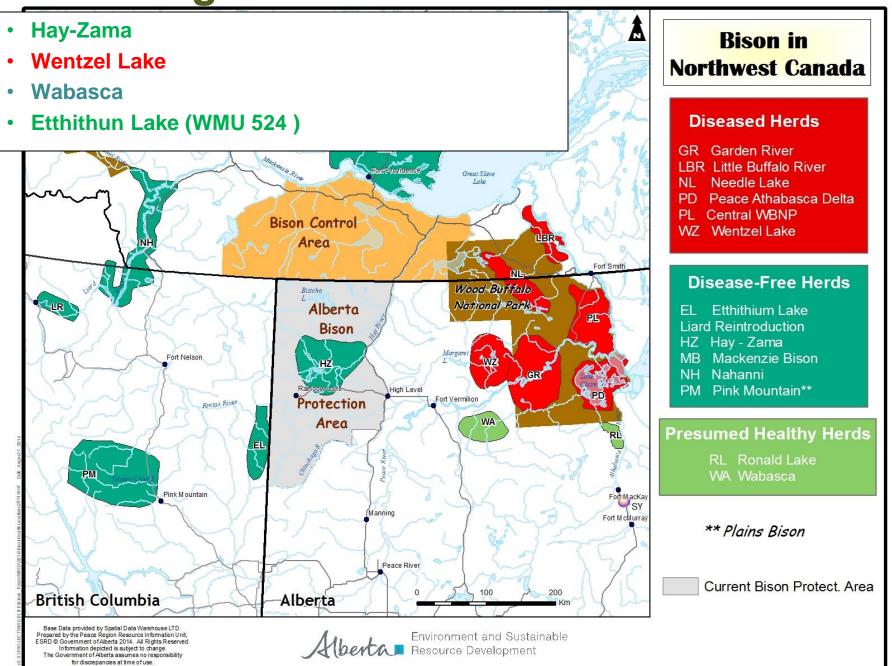


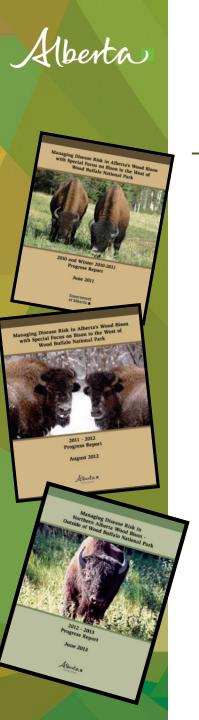
Bison in NW Alberta Mackenzie County Council Meeting Fort Vermilion

August 22, 2016

Presenter: Natalka Melnycky, Wildlife Biologist Environment and Parks, Peace Region

Peace Region Bison





Peace Region Bison



Managing Disease Risk in Northern Alberta Wood Bison- Outside of Wood Buffalo National Park

Three broad components:

Hay Zama management

- Winter surveys
- Management of Hay Zama hunt
- Disease sampling (CFIA)

Disease Surveillance and risk reduction east of Hwy 35

Hwy 35 and Agriculture zone surveillance

Monitoring populations of wild bison east of Hwy 35

- Surveys of Areas 1, 2 and 3 (Wentzel and Wabasca herds)
- Disease sampling

Etthithun overlap into Wildlife management Units 524/536



Hay-Zama History



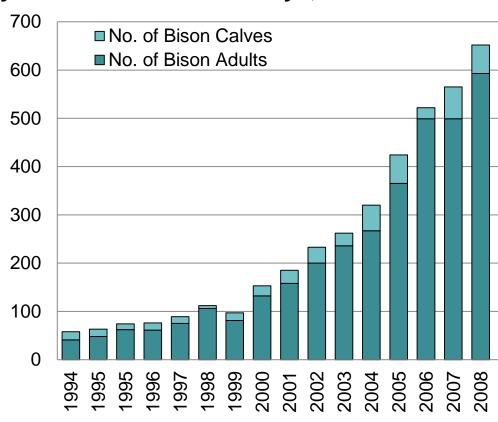
- 1983 29 disease free bison from Elk Island NP moved into paddock.
 - **CWS** initiative to reintroduce into 4 jurisdictions in NW Canada
 - Cooperative program between AFWD, CWS and Dene Tha
- 1985 Planned release cancelled due to concerns of these bison contracting diseases from WBNP bison
- 1989 Required supplemental feeding, and several adult bulls culled to allow females and claves access to feed.
 - Conditions in paddock were poor, too wet, mortality of calves high.
- 1994 Approx. 42 Bison escape from paddock. Fence was not meant for long-term, and untreated posts fell down.



Hay-Zama Expansion after release

 Hay-Zama population quickly expanded in number and range, with a peek minimum count of 652 in 2008

Hay-Zama area Bison surveys, 1994-2008

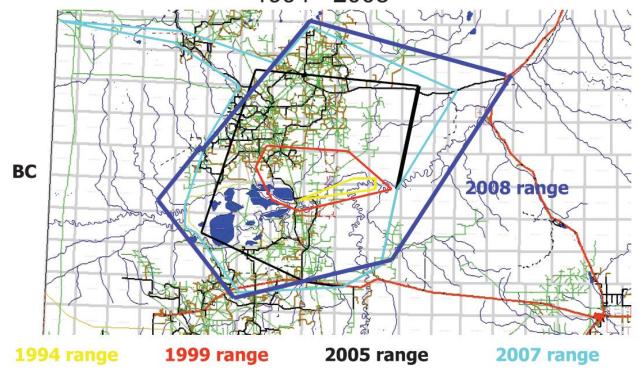




Hay-Zama Range Expansion

- This lead to 3 major concerns:
 - 1) Increased distribution of bison; concern of disease transfer from Wood Buffalo National Park

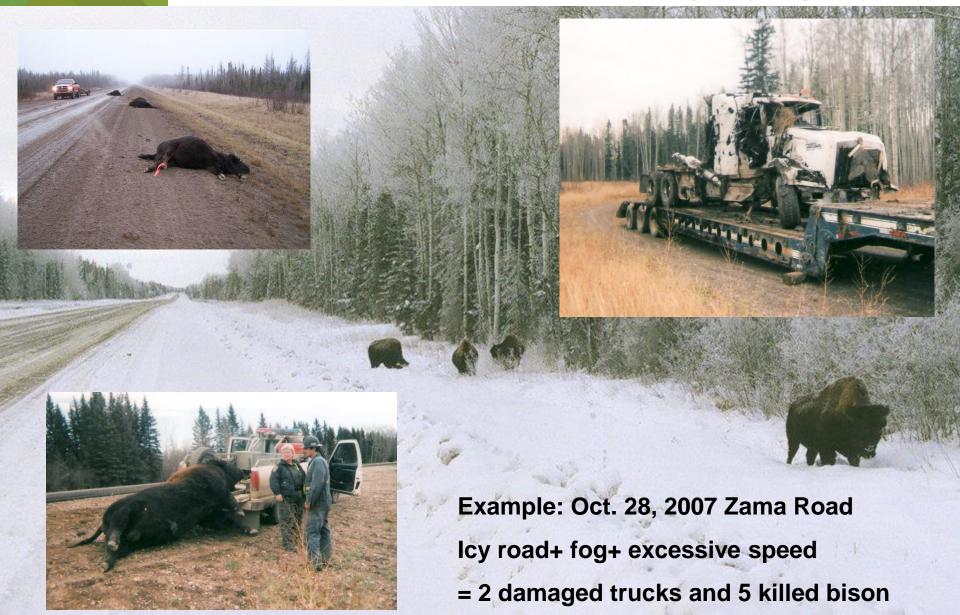
Hay-Zama wood bison range expansion, 1994 - 2008







2) Bison on roads causing bison-vehicle collisions on area infrastructure roads (Zama highway, Highway 58)





Hay-Zama Expansion after release

 Increased bison conflicts with humans in communities of Zama City and Assumption (P.O. Chateh)

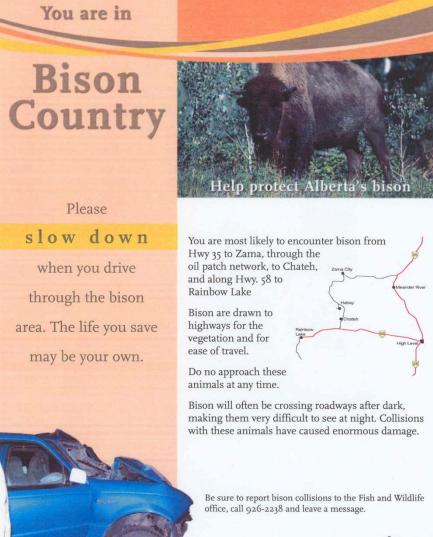






Hay-Zama Education, signage





Alberta



Hay-Zama Regulated Hunt established

- In spring 2008, began a highly regulated season in order to:
 - 1. Limit bison distribution eastward towards WBNP
 - 2. Reduce bison-vehicle collisions on Zama highway and highway 58
 - 3. Reduce bison conflicts with humans in communities



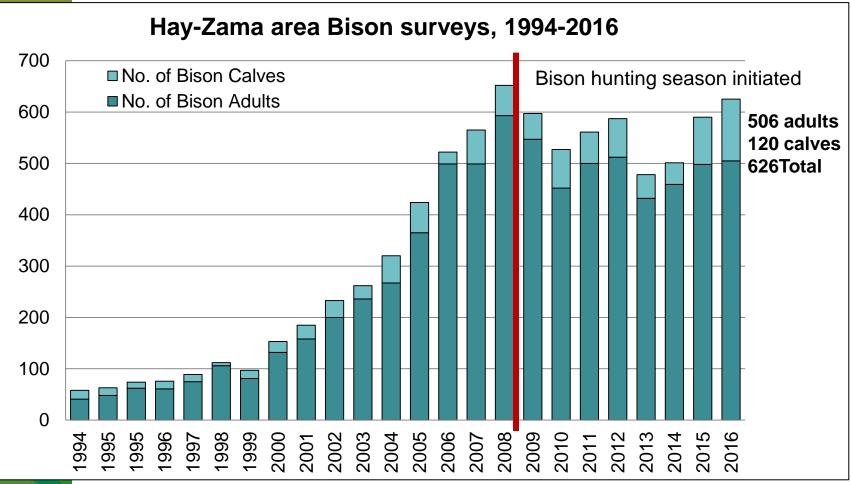






Hay-Zama Population surveys







Hay-Zama Licence and Harvest Success 2008-2015





	Licences	Bulls	Cows	Total harvest	Average % success
Aboriginal	1040	237	166	403	40
Non-Aboriginal	520	190	100	290	58
Total	1560	427	266	693	46



Hay-Zama – Disease-free Disease Sampling

279 samples have been collected for disease surveillance of bovine tuberculosis and brucellosis – all negative

Season	Hunters	Harvest	Tested
			Samples
2008/09	Aboriginal	74	58
	Non-Aboriginal	54	39
2009/10	Aboriginal	98	81
	Non-Aboriginal	57	43
2010/11	Aboriginal	34	8
,	Non-Aboriginal	21	13
2011/12	Aboriginal	47	19
	Non-Aboriginal	38	18
2012/13	Aboriginal	42	0
,	Non-Aboriginal	57	0
Total		521	279

2016/2017 Disease Sampling

- Anticipate maximum 250 samples
- With the help of CFIA







Peace Region Bison



Managing Disease Risk in Bison Outside WBNP Three broad components:

Hay Zama management

- Winter surveys
- Management of Hay Zama hunt
- Disease sampling (CFIA)

Disease Surveillance and risk reduction east of Hwy 35

Hwy 35 and Agriculture zone surveillance

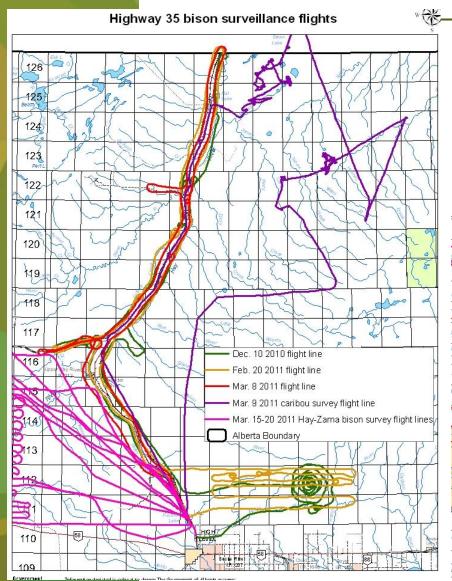
Monitoring populations of wild bison east of Hwy 35

- Surveys of Areas 1, 2 and 3 (Wentzel and Wabasca herds)
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Etthithun overlap into Wildlife management Units 524/536

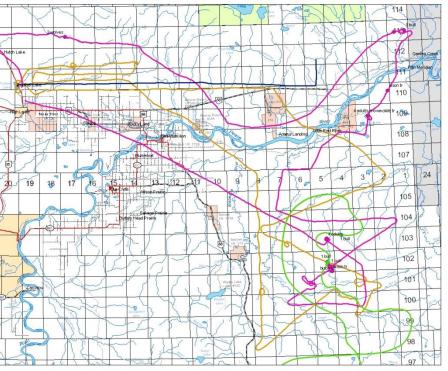


Disease Surveillance and risk reduction east of Hwy 35



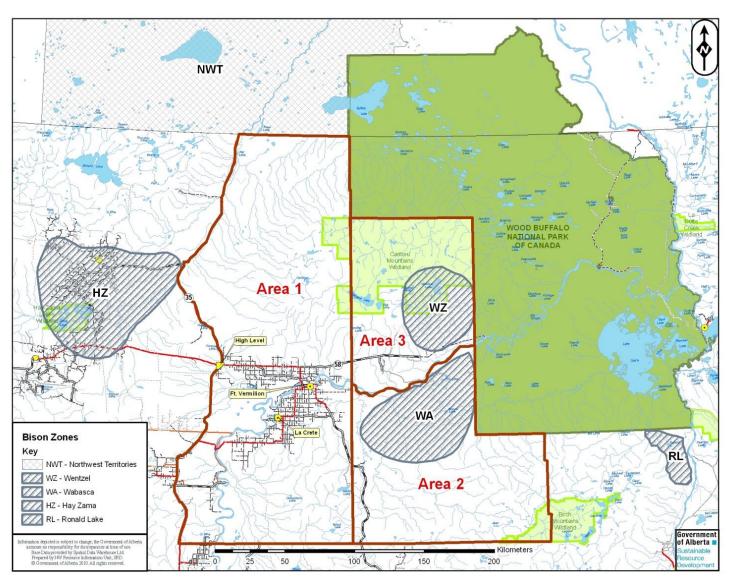
Once a month flights during the winter

2015/2016 – 4 surveys and no bison seen



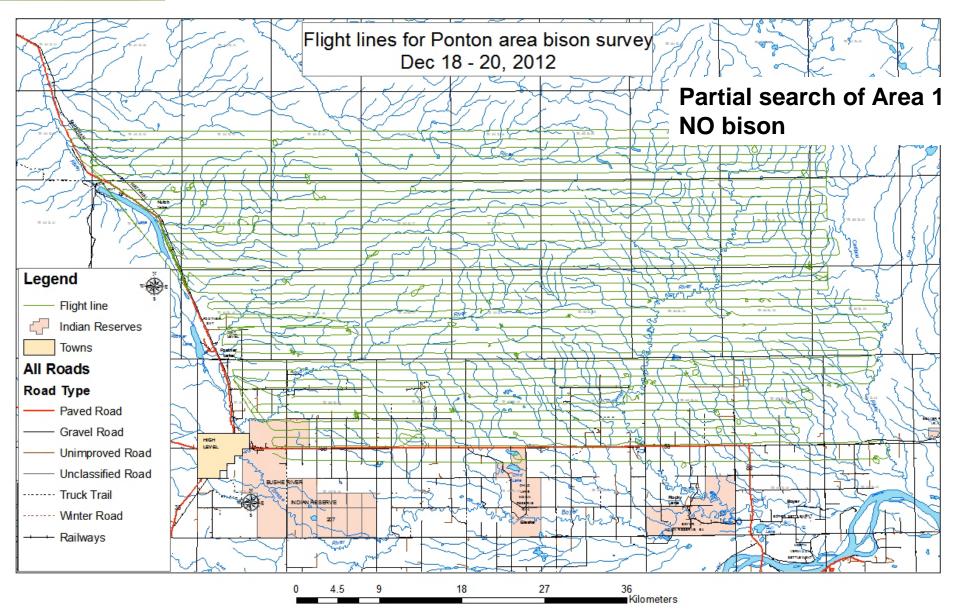


Monitoring populations of wild bison east of Hwy 35





Area 1 Bison locations in 2012



Area 2 Bison locations in 2014 (Wabasca) 111 Power - Transmission Lines 110 109 • 108 107 106 105 104 103 Tall Cree 102 -101 100

15 bison within interior

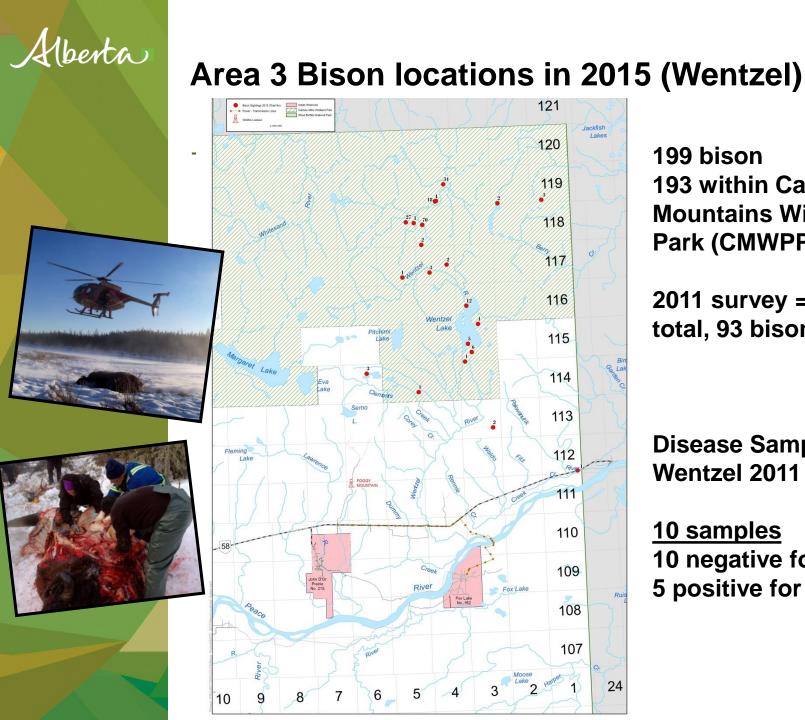
56 bison just west of **WBNP**

(2010 survey = 35)bison)

Disease Sampling Wabasca/Mikkwa 2011 and 2012

12 samples 12 negative for TB And brucellosis

Total Samples 2014 = 24, all negative



199 bison 193 within Caribou **Mountains Wildland Prov.** Park (CMWPP)

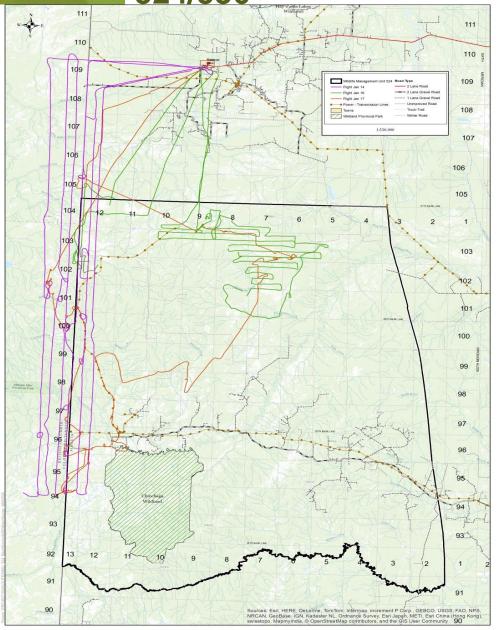
2011 survey = 200 bison total, 93 bison in CMWPP

Disease Sampling Wentzel 2011

10 samples 10 negative for TB 5 positive for brucellosis Alberta

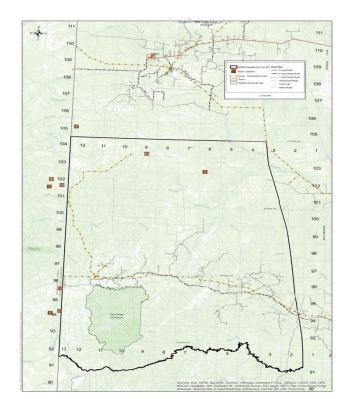
Etthithun overlap into Wildlife management Units





2015 -167 bison in 9 locations 23%Calves, 34 within WMU 524

2013 – 121bison in 13 locations 15.7% calves, 54 within WMU 524





Upcoming work for 2016-2017

- Continued Surveillance along Highway 35, and Agricultural zone
- Modified Area 3 Survey (South of Caribou Mountains to Highway 58)
- Modified Area 2 Survey (Northern half of Area 2)
- Hay-Zama hunt and disease sampling (ongoing for 2016-17 season)
- * Etthithun Lake Bison Disease Sampling
- * Hay-Zama population Survey

*Pending funding





Questions?







