



WESTERN/NORTHERN REGION

Western College of Veterinary Medicine

52 Campus Drive, Saskatoon, SK S7N 5B4

Phone: 306.966.5815 email: wn@cwhc-rcsf.ca

CWD Surveillance Final Report 2017

The Canadian Wildlife Health Centre (CWHC) has been involved in chronic wasting disease (CWD) hunter surveillance since 1997 after it was first discovered in domestic elk in the province. The program ran each fall until 2012 with over 45,000 samples tested and 421 positives detected.

The program was reinstated in the fall of 2015 after a two year break. A total of just over 200 samples were tested with 19 of them testing positive. Alongside the surveillance program, the CWHC tested 43 cervids through our diagnostic stream and 7 of those were positive for CWD. With continued support from the Ministry of Agriculture the program was maintained in 2016. Submission numbers were still low at a total of 338 with 32 of those testing positive. In addition 57 cervids were tested through our diagnostic stream and 16 of those were positive. CWD was detected in one new wildlife management zone (28) which is SW of Biggar.

In 2017 the amount of submissions more than doubled with a total of 758 being tested of which 75 were positive. We also received 106 cervids through our diagnostic stream and 30 tested positive (see Tables 1 & 2). We also detected positives in 11 new WMZs (see Map 2).

There were still a few issues that should be addressed for a more stream-lined program in coming years:

1. In the fall of 2017 the CWHC, with support from the Ministry of Environment, launched an on-line tracking tag website which enabled hunters to generate CWD tracking tags. This allowed for the hunter information to go directly into the CWHC database. The system was a success but some ministry offices were still using the old orange tag system resulting in information not reaching the lab.
2. The other issue we ran into was the improper tagging of the submissions. Ideally Tyvek tags and permanent marker should be used or ziploc bags and zip ties.
3. There was also the same issue of the time lag between hunters dropping off samples to ministry offices and them arriving to the lab. Better coordination between offices could minimize the delay as well as implementation of central drop-off offices could reduce travel times to the lab.



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Table 1: Summary of 2017 Hunter Surveillance CWD Testing.

Species	Inconclusive	Negative	Positive	Total	% Positive
Elk	6	35	1	42	2
Moose	7	40		47	0
Mule Deer	2	233	63	298	21
White-Tailed Deer	1	359	11	371	3
Total	16	667	75	758	10

Table 2: Summary of 2017/2018 Diagnostic Specimens:

Species	Inconclusive	Negative	Positive	Total	% Positive
Elk		2		2	0
Moose	3	24		27	0
Mule Deer		25	24	49	49
White-Tailed Deer		22	6	28	21
Total	3	73	30	106	28

Table 3: Summary of 2017 CWD Hunter Submissions by Wildlife Management Zones (WMZ).

WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
1					
Mule Deer		10	1	11	9
White-Tailed Deer		2		2	0
2					
Mule Deer		23	2	25	8
White-Tailed Deer		7		7	0
3					
Mule Deer		4	1	5	20
White-Tailed Deer		1		1	0
4					



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WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
Mule Deer		6		6	0
White-Tailed Deer		4		4	0
5					
Mule Deer		9	1	10	10
White-Tailed Deer		9	1	10	10
6					
Moose		1		1	0
Mule Deer		2		2	0
White-Tailed Deer		6	1	7	14
7					
Mule Deer			1	1	100
White-Tailed Deer		3		3	0
8					
Mule Deer		2	2	4	50
White-Tailed Deer		2		2	0
9					
Elk		2		2	0
Mule Deer		15	5	20	25
White-Tailed Deer		8		8	0
10					
Mule Deer	1	29	11	41	27
White-Tailed Deer		2	1	3	33
11					
Mule Deer		7	3	10	30
White-Tailed Deer		1	1	2	50
12					
Moose	1			1	0
Mule Deer		8	5	13	38
White-Tailed Deer		2		2	0
13					
Moose		1		1	0



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WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
Mule Deer		3	11	14	79
White-Tailed Deer		7	1	8	13
14					
Elk		2		2	0
Moose	1	3		4	0
Mule Deer		18	8	26	31
White-Tailed Deer		6	1	7	14
15					
Mule Deer		2		2	0
White-Tailed Deer		3		3	0
16					
Moose		1		1	0
17					
Mule Deer		3		3	0
White-Tailed Deer		13		13	0
18					
Moose		1		1	0
Mule Deer		3		3	0
White-Tailed Deer		13		13	0
19					
Moose	1			1	0
Mule Deer		6		6	0
White-Tailed Deer		5		5	0
20					
Mule Deer		1		1	0
White-Tailed Deer		3		3	0
21					
Mule Deer		3		3	0
White-Tailed Deer		6		6	0
22					
Moose	1	2		3	0
Mule Deer			1	1	100



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WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
White-Tailed Deer		4		4	0
23					
Moose		7		7	0
Mule Deer		3		3	0
White-Tailed Deer		7		7	0
24					
Elk		1		1	0
Moose		1		1	0
Mule Deer		5	5	10	50
White-Tailed Deer		6		6	0
25					
Mule Deer		3		3	0
White-Tailed Deer		3		3	0
26					
Mule Deer		2		2	0
White-Tailed Deer		2		2	0
27					
Mule Deer		3		3	0
28					
Elk		2		2	0
Mule Deer		3		3	0
White-Tailed Deer		4		4	0
29					
Mule Deer		6		6	0
White-Tailed Deer		15		15	0
30					
Moose	1			1	
Mule Deer		11		11	0
White-Tailed Deer		27	2	29	7
31					
Mule Deer	1			1	0
White-Tailed Deer		3		3	0



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WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
Deer					
33					
Elk	1	3		4	0
Moose		1		1	0
White-Tailed Deer		2		2	0
34					
Moose	1	2		3	0
White-Tailed Deer		2		2	0
36					
White-Tailed Deer		5		5	0
37					
Elk		1		1	0
Moose		2		2	0
White-Tailed Deer		7		7	0
38					
Moose		1		1	0
White-Tailed Deer		2		2	0
39					
Elk		4		4	0
Moose		2		2	0
Mule Deer		3		3	0
White-Tailed Deer		5		5	0
40					
Elk	1			1	0
Moose		2		2	0
White-Tailed Deer		2		2	0
41					
Elk	1	1		2	0
Moose		1		1	0
Mule Deer		1		1	0
White-Tailed Deer		6		6	0
42					



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WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
Elk		1		1	0
Moose		1		1	0
White-Tailed Deer		1		1	0
43					
Elk		2	1	3	33
Moose		2		2	0
Mule Deer		2		2	0
White-Tailed Deer		15	1	16	6
44					
Mule Deer		5	1	6	17
White-Tailed Deer		6	1	7	14
45					
Moose		2		2	0
Mule Deer		2		2	0
White-Tailed Deer		8	1	9	11
46					
Mule Deer		2	3	5	60
47					
Mule Deer		2		2	0
White-Tailed Deer		4		4	0
48					
Elk	2	3		5	0
Moose		2		2	0
White-Tailed Deer		4		4	0
49					
Elk		1		1	0
Moose		1		1	0
Mule Deer		2		2	0
White-Tailed Deer		8		8	0
50					
Elk	1	7		8	0
Mule Deer		10		10	0



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White-Tailed Deer 52		35		35	0
White-Tailed Deer 53		6		6	0
White-Tailed Deer 54		9		9	0
Mule Deer		2		2	0
White-Tailed Deer 55		3		3	0
White-Tailed Deer 56		6		6	0
Elk		2		2	0
White-Tailed Deer 59		3		3	0
White-Tailed Deer 60		1		1	0
White-Tailed Deer 62		1		1	0
Moose		1		1	0
White-Tailed Deer 63		1		1	0
White-Tailed Deer 64		1		1	0
Moose		1		1	0
White-Tailed Deer 67		3		3	0
White-Tailed Deer		2		2	0
PAWMZ					
White-Tailed Deer		2		2	0



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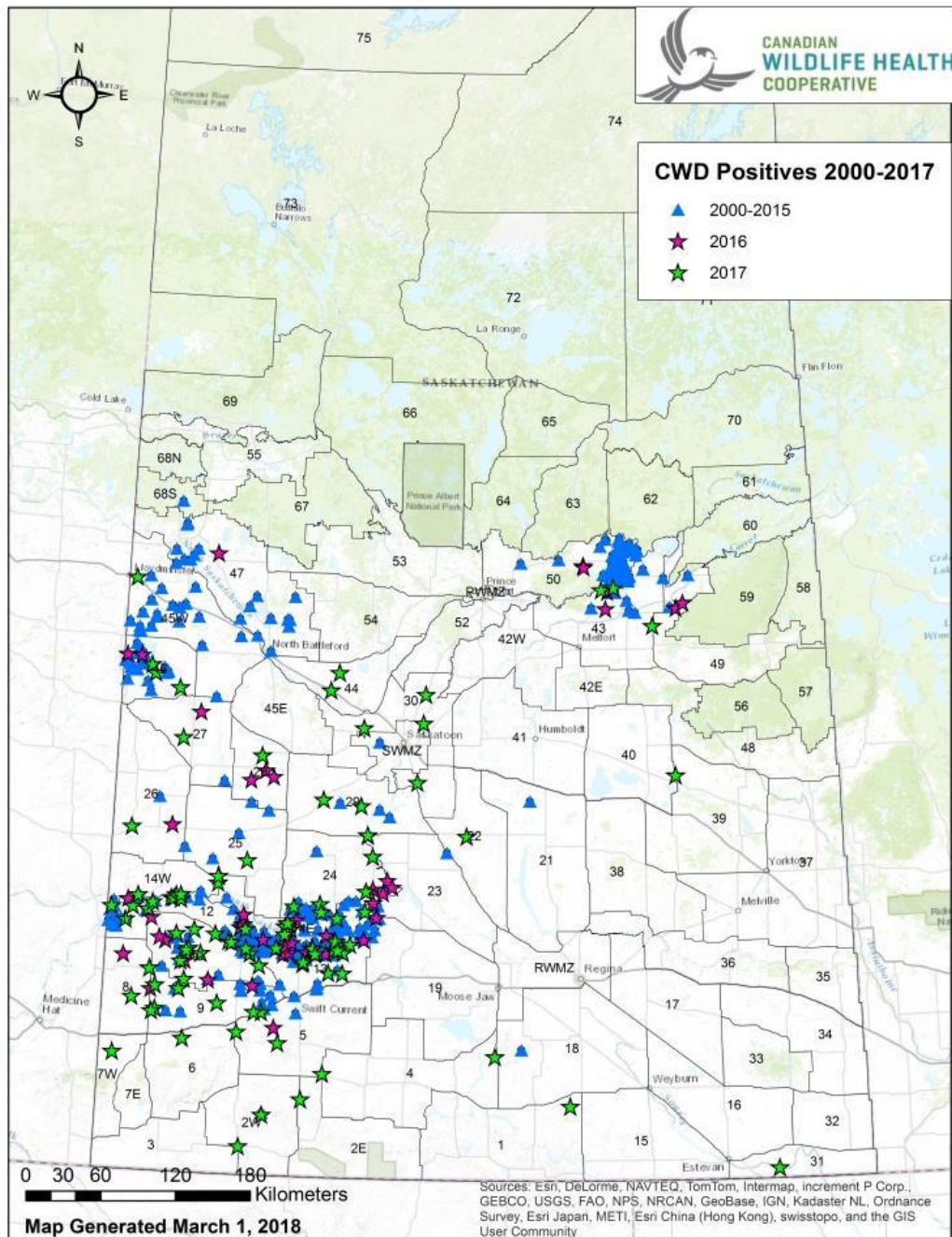
Phone: 306.966.5815 email: wn@cwhc-rcsf.ca

WMZ/Species	Inconclusive	Negative	Positive	Total	% Positive
RWMZ (Regina)					
Moose		1		1	0
White-Tailed Deer		6		6	0
SWMZ (Saskatoon)					
Moose	1			1	0
Mule Deer		3	1	4	25
White-Tailed Deer		19		19	0
No WMZ					
Elk		3		3	0
Moose		1		1	0
Mule Deer		9	1	10	10
White-Tailed Deer	1	10		11	0
Total	16	667	75	758	10

Please Note:

All results are current as of March 27th, 2017. Some WMZ data is missing so that reflects the discrepancy between the two tables.

Map 1: CWD Positives 2000-2017.





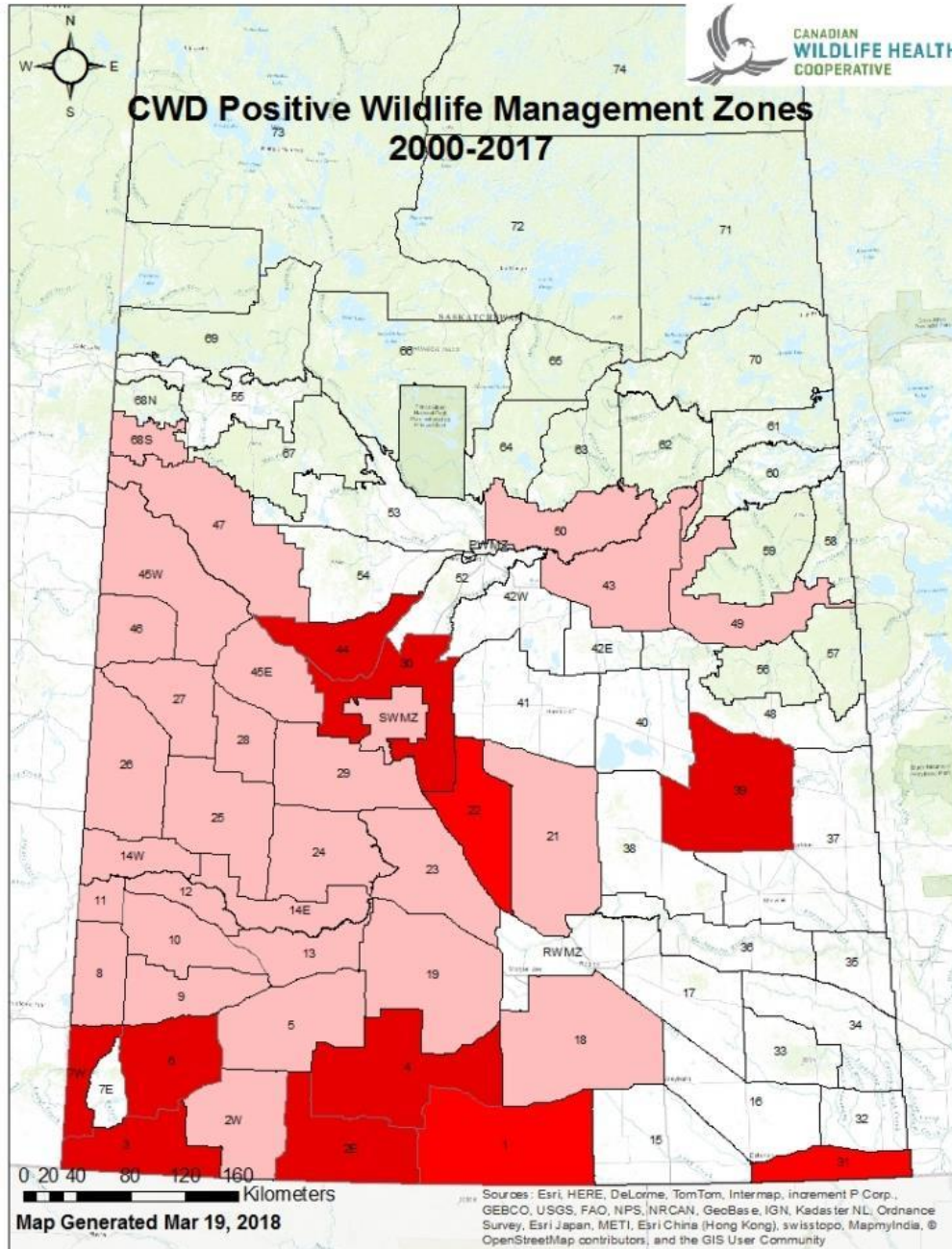
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Map 2: CWD Positive Wildlife Management





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