

Appendix A Supplementary Figures and Tables

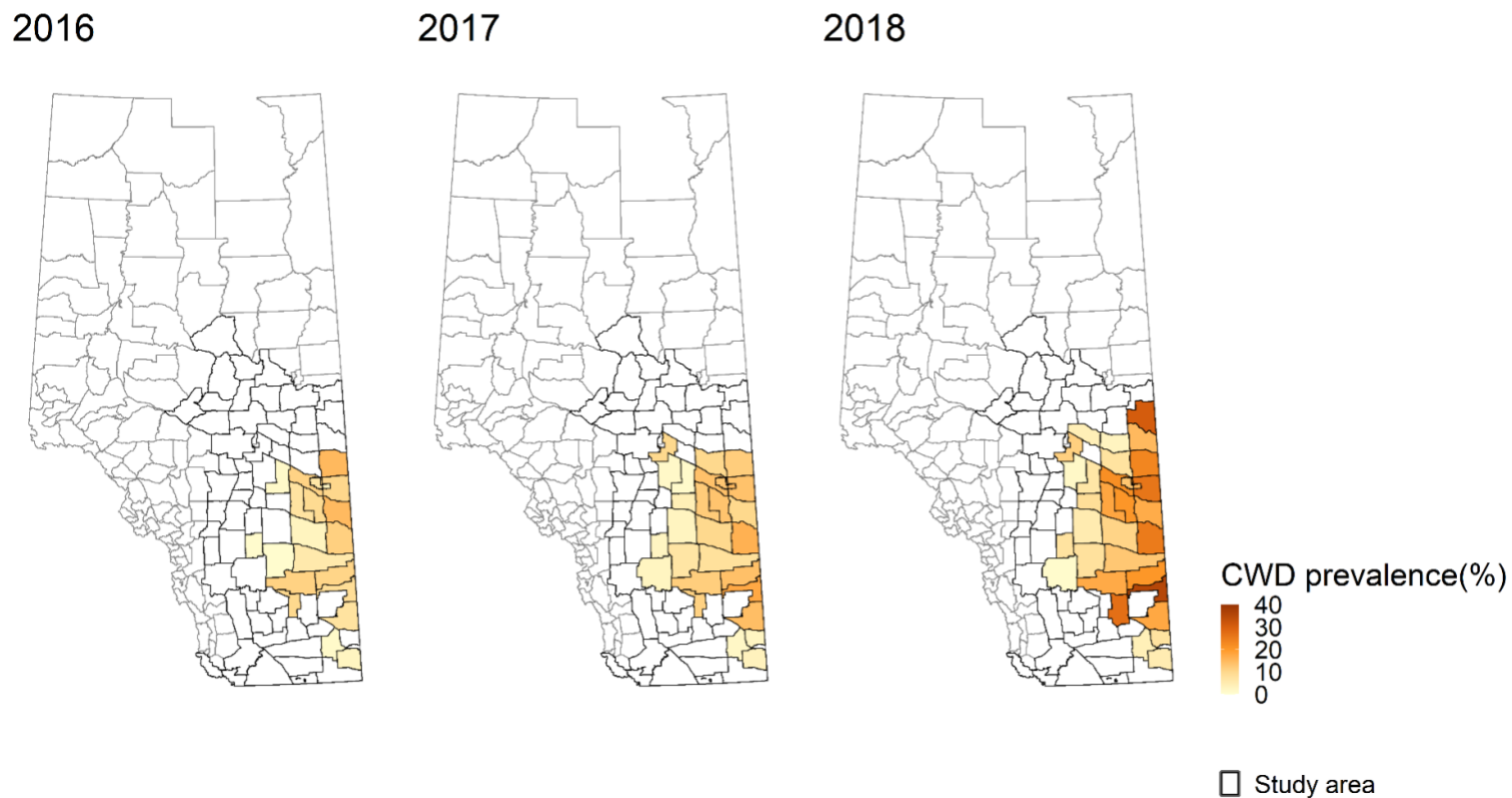
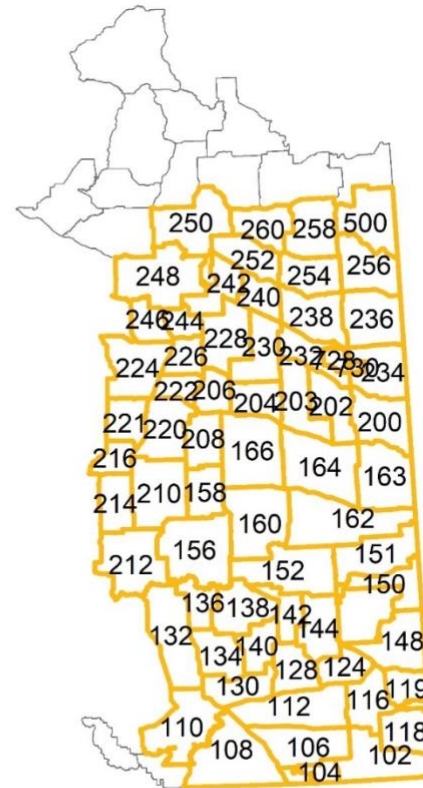
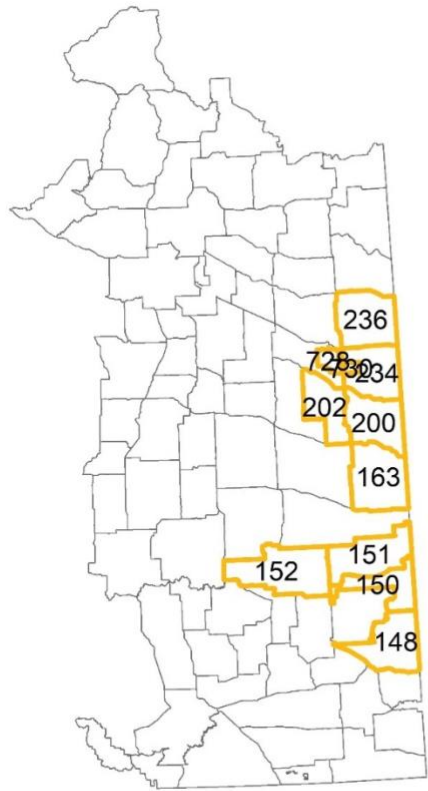


Figure A1. CWD Spread and Prevalence (2016 – 2018) in Alberta

Note: We implemented surveys in 2018, 2019, and 2020 respectively to collect CB hunting trip decisions in the previous hunting season in 2017, 2018, and 2019. As hunters only had information on CWD prevalence from the previous hunting season (i.e. 2016, 2017, and 2018) when they decided on trips in 2017, 2018, and 2019, we present and use the CWD prevalence rate with a one year lag in our model.



Eligible Area: Extra Tags & Gift Cards

Eligible Area: October & December Season Expansion

Figure A2. Eligible Areas of Contingent Behavior Scenarios

Table A1. Average Number of Trips per Person under RP and CB Scenarios

Scenario	RP	October	December	Extra tags	Gift cards
<i>Season length</i>	<i>30 days</i>	<i>37 days</i>	<i>47 days</i>	<i>30 days</i>	<i>30 days</i>
2018 survey	8.46 (635)	11.23 (214)	12.49 (238)	7.24 (208)	6.44 (202)
2019 survey	9.35 (328)	10.37 (148)	12.60 (163)	7.79 (131)	8.08 (130)
2020 survey	9.97 (872)	11.07 (387)	13.23 (413)	7.40 (304)	8.00 (330)

Note: Average numbers of trips per person are in bold. Numbers of respondents are in brackets. Unrealistically large trip numbers are adjusted to be consistent with the allowable hunting days (with 30 days maximum) in all scenarios. Although all respondents received two CB scenarios, not all of them answered the two CB scenarios, therefore the total numbers of respondents who answered the CB questions are not equal to the number of respondents of the RP questions.

Table A2. Average Number of Trips per Person per Site by Targeted and Non-targeted Areas

Scenario	RP	October	December	RP	Extra tags	Gift cards
<i>Targeted area</i>						
Number of sites		65 or 62			11	
2018 survey	0.11	0.15	0.17	0.39	0.44	0.45
2019 survey	0.13	0.15	0.18	0.49	0.52	0.43
2020 survey	0.14	0.16	0.19	0.52	0.50	0.49
<i>Non-targeted area</i>						
Number of sites		14 or 10			68 or 61	
2018 survey	0.35	0.58	0.63	0.12	0.11	0.10
2019 survey	0.55	0.71	0.76	0.15	0.12	0.14
2020 survey	0.36	0.43	0.51	0.15	0.11	0.12

Note: Number of sites in the target area in October or December extended season scenario for 2018, 2019, 2020 is: 65, 62, 65. Number of sites in the non-target area in October or December extended season scenario for 2018, 2019, 2020 is: 14, 10, 14. The number of sites in the target area in extra tags or gift cards scenario for 2018, 2019, 2020 is 11. The number of sites in the non-target area in extra tags or gift cards scenario for 2018, 2019, 2020 is: 68, 61, 68.