

Appendix 1. Initial candidate models and model selection statistics for models examining variation in stand-level trends (between circa 1994 and 2014) in abundance for ten species of passerine in aspen dominated mixedwood forests in central Saskatchewan.

Table A1.1 Information theoretic based model selection for models examining variation in stand-level trends (between circa 1994 and 2014) in abundance for ten species of passerine in aspen dominated mixedwood forests in central Saskatchewan. K denotes the number of estimated parameters in the model, AIC_c denotes Akaike's Information Criterion with second-order bias correction, ΔAIC_c is the difference in AIC_c between the given model and the model with the lowest AIC_c value, and w_i refers to the AIC_c weight.

Model name	K	Log-Likelihood	AIC_c	ΔAIC_c	w_i
<i>Red-eyed Vireo</i>					
Proportion Disturbed	3	113.77	-220.93	0.00	0.33
Windthrow	4	114.14	-219.26	1.67	0.14
Stand Age	4	114.06	-219.09	1.84	0.13
Protected Areas	4	114.02	-219.02	1.91	0.13
Change in Height	4	114.01	-219.00	1.93	0.13
Change in Percent Conifer	4	113.90	-218.78	2.15	0.11
Null	2	109.71	-215.12	5.81	0.02
<i>Ruby-crowned Kinglet</i>					
Change in Height	4	129.06	-249.09	0.00	0.68
Null	2	124.66	-245.03	4.06	0.09
Proportion Disturbed	3	125.78	-244.95	4.14	0.09
Protected Areas	4	126.61	-244.19	4.90	0.06
Stand Age	4	126.05	-243.07	6.02	0.03
Change in Percent Conifer	4	125.86	-242.69	6.40	0.03
Windthrow	4	125.83	-242.64	6.45	0.03
<i>Swainson's Thrush</i>					
Proportion Disturbed	3	165.62	-324.64	0.00	0.35
Change in Height	4	166.12	-323.22	1.43	0.17
Windthrow	4	165.97	-322.92	1.73	0.15
Protected Areas	4	165.75	-322.47	2.18	0.12
Change in Percent Conifer	4	165.67	-322.31	2.33	0.11
Stand Age	4	165.63	-322.23	2.42	0.10
Null	2	160.35	-316.40	8.25	0.01
<i>Hermit Thrush</i>					

Windthrow	4	111.13	-213.23	0.00	0.28
Proportion Disturbed	3	109.88	-213.16	0.07	0.27
Stand Age	4	110.34	-211.65	1.58	0.13
Change in Percent Conifer	4	109.95	-210.88	2.35	0.09
Change in Height	4	109.90	-210.77	2.46	0.08
Protected Areas	4	109.88	-210.73	2.50	0.08
Null	2	107.38	-210.47	2.76	0.07

Ovenbird

Windthrow	4	94.24	-179.46	0.00	0.44
Stand Age	4	93.80	-178.57	0.89	0.28
Proportion Disturbed	3	91.78	-176.97	2.50	0.13
Change in Height	4	92.29	-175.56	3.90	0.06
Change in Percent Conifer	4	91.90	-174.77	4.69	0.04
Protected Areas	4	91.78	-174.54	4.92	0.04
Null	2	85.73	-167.17	12.30	0.00

Mourning Warbler

Windthrow	4	111.78	-214.53	0.00	0.35
Stand Age	4	111.64	-214.25	0.28	0.30
Proportion Disturbed	3	109.42	-212.25	2.28	0.11
Null	2	107.97	-211.64	2.89	0.08
Change in Percent Conifer	4	110.17	-211.31	3.22	0.07
Protected Areas	4	109.90	-210.78	3.75	0.05
Change in Height	4	109.56	-210.10	4.43	0.04

Magnolia Warbler

Conifer Cover + Windthrow	4	112.74	-216.44	0.00	0.30
Stand Age	3	110.98	-215.36	1.09	0.18
Windthrow	3	110.98	-215.35	1.09	0.18
Change in Conifer Cover	3	110.62	-214.64	1.80	0.12
Conifer Cover + Stand Age	4	111.79	-214.56	1.89	0.12
Null	2	108.55	-212.81	3.64	0.05
Change in height	3	109.33	-212.05	4.39	0.03
Protected Areas	3	108.68	-210.75	5.69	0.02

Yellow-rumped Warbler

Change in Percent Conifer	4	188.79	-368.56	0.00	0.29
Proportion Disturbed	3	187.48	-368.35	0.21	0.26

Windthrow	4	188.17	-367.31	1.25	0.16
Change in Height	4	187.78	-366.54	2.02	0.11
Stand Age	4	187.48	-365.94	2.62	0.08
Protected Areas	4	187.48	-365.93	2.64	0.08
Null	2	184.07	-363.84	4.72	0.03

Chipping Sparrow

Change in Height	4	152.79	-296.56	0.00	0.37
Proportion Disturbed	3	150.87	-295.14	1.43	0.18
Stand Age	4	152.05	-295.08	1.48	0.18
Change in Percent Conifer	4	151.74	-294.45	2.11	0.13
Protected Areas	4	151.17	-293.31	3.25	0.07
Windthrow	4	150.99	-292.96	3.61	0.06
Null	2	145.76	-287.22	9.34	0.00

White-throated Sparrow

Conifer Cover + Stand Age	4	101.79	-194.55	0.00	0.63
Stand Age	3	99.95	-193.31	1.24	0.34
Change in Conifer Cover	3	97.06	-187.52	7.04	0.02
Conifer Cover + Windthrow	4	97.93	-186.84	7.71	0.01
Windthrow	3	93.40	-180.21	14.34	0.00
Null	2	92.21	-180.13	14.43	0.00
Change in height	3	92.62	-178.64	15.91	0.00
Protected Areas	3	92.21	-177.82	16.73	0.00
