

Appendix B

Population trend estimates (% annual change) and associated test statistics for the Chippewa National Forest, Superior National Forest, and a combined regional analysis (1995–2019). Included for each species are its trend (% annual change) within each NF, a regional trend (if possible), the significance of the trend (P), the explained variation of the trend (r^2), and the number of stands (n) in which the species was detected sufficiently to include in the trend calculation.

Species	Chippewa				Superior				Regional			
	Trend	P	r^2	n	Trend	P	r^2	n	Trend	P	r^2	n
Alder Flycatcher	-2.84	0.01	0.67	24	0.61	0.64	0.20	57	-0.40	0.65	0.07	81
American Bittern	-	-	-	-	-2.25	0.75	0.22	5	-	-	-	-
American Crow	-0.41	0.34	0.09	109	-3.52	0.00	0.85	73	-1.19	0.01	0.45	182
American Goldfinch	1.23	0.25	0.04	25	0.82	0.76	0.04	10	1.08	0.26	0.04	35
American Redstart	1.03	0.14	0.72	74	1.63	0.01	0.80	95	1.25	0.04	0.79	169
American Robin	-1.72	0.00	0.62	106	0.37	0.30	0.18	146	-0.42	0.15	0.16	252
Black-and-white Warbler	3.46	0.00	0.94	117	0.62	0.05	0.09	137	1.75	0.00	0.56	254
Black-billed Cuckoo	-	-	-	-	-4.46	0.02	0.18	6	-	-	-	-
Blackburnian Warbler	0.68	0.27	0.53	88	-0.57	0.14	0.26	134	-0.17	0.63	0.04	222
Black-capped Chickadee	-0.78	0.10	0.07	108	-1.12	0.01	0.09	133	-0.93	0.00	0.08	241
Black-throated Blue Warbler	-	-	-	-	1.27	0.54	0.28	21	-	-	-	-
Black-throated Green Warbler	1.63	0.00	0.50	76	1.78	0.00	0.96	99	1.70	0.00	0.80	175
Blue Jay	1.14	0.00	0.71	121	1.07	0.00	0.63	147	1.10	0.00	0.68	268
Blue-headed Vireo	-2.09	0.01	0.51	48	-0.55	0.59	0.07	59	-1.33	0.02	0.30	107
Broad-winged Hawk	-	-	-	-	-7.90	0.00	0.99	7	-	-	-	-
Brown Creeper	-0.91	0.34	0.39	49	-1.36	0.09	0.45	68	-1.12	0.09	0.42	117
Brown-headed Cowbird	-3.90	0.02	0.63	17	-	-	-	-	-	-	-	-
Canada Warbler	2.99	0.02	0.72	23	0.01	0.96	0.00	106	0.40	0.40	0.13	129
Cape May Warbler	-	-	-	-	6.06	0.00	0.93	43	-	-	-	-
Cedar Waxwing	1.21	0.12	0.26	51	1.54	0.12	0.24	57	1.37	0.04	0.25	108
Chestnut-sided Warbler	-0.28	0.65	0.06	108	-1.38	0.00	0.47	136	-0.90	0.01	0.33	244

Species	Chippewa				Superior				Regional			
	Trend	P	r ²	n	Trend	P	r ²	n	Trend	P	r ²	n
Chipping Sparrow	-3.25	0.00	0.50	72	-3.59	0.00	0.75	70	-3.36	0.00	0.59	142
Common Loon	-0.80	0.14	0.27	78	-4.04	0.00	0.98	49	-1.73	0.00	0.76	127
Common Raven	-0.45	0.61	0.09	68	-1.29	0.07	0.32	76	-0.88	0.08	0.22	144
Common Yellowthroat	-1.19	0.02	0.52	89	-1.82	0.01	0.40	70	-1.37	0.00	0.48	159
Connecticut Warbler	-8.17	0.00	0.94	16	-7.43	0.00	0.98	5	-8.01	0.00	0.96	21
Dark-eyed Junco (Slate-colored)	4.71	0.18	0.34	5	-	-	-	-	-	-	-	-
Downy Woodpecker	-3.01	0.01	0.67	17	-8.78	0.00	0.91	7	-4.36	0.00	0.81	24
Eastern Towhee	-0.60	0.87	0.05	7	-	-	-	-	-	-	-	-
Eastern Wood-Pewee	-0.88	0.08	0.68	94	-0.83	0.52	0.69	32	-0.86	0.07	0.71	126
Evening Grosbeak	-	-	-	-	-5.54	0.11	0.94	12	-	-	-	-
Golden-crowned Kinglet	-2.40	0.01	0.27	25	1.16	0.05	0.21	82	0.34	0.48	0.02	107
Golden-winged Warbler	0.60	0.74	0.10	39	0.59	0.76	0.03	12	0.61	0.66	0.34	51
Gray Catbird	-1.27	0.60	0.35	25	-	-	-	-	-	-	-	-
Canada Jay	-1.02	0.50	0.11	18	-0.84	0.31	0.05	49	-0.91	0.25	0.07	67
Great Crested Flycatcher	-0.59	0.51	0.22	52	-	-	-	-	-	-	-	-
Hairy Woodpecker	1.33	0.28	0.58	31	1.87	0.07	0.23	32	1.60	0.04	0.37	63
Hermit Thrush	-0.11	0.74	0.01	108	-1.88	0.00	0.59	138	-0.94	0.00	0.33	246
Indigo Bunting	-4.22	0.08	0.87	22	-	-	-	-	-	-	-	-
Least Flycatcher	-1.75	0.00	0.76	84	0.69	0.46	0.30	120	-0.93	0.05	0.44	204
Lincoln's Sparrow	6.37	0.00	0.83	5	-4.31	0.02	0.86	5	3.39	0.33	0.64	10
Magnolia Warbler	-0.12	0.90	0.01	23	-1.35	0.00	0.65	124	-1.25	0.00	0.71	147
Mourning Dove	2.28	0.12	0.13	11	-	-	-	-	-	-	-	-
Mourning Warbler	-0.27	0.66	0.07	70	-2.28	0.00	0.79	127	-1.66	0.00	0.70	197
Nashville Warbler	1.32	0.00	0.81	115	1.23	0.00	0.71	147	1.25	0.00	0.77	262
Northern Flicker (Yellow-shafted)	0.29	0.82	0.01	37	-0.50	0.44	0.03	84	-0.28	0.58	0.01	121

Species	Chippewa				Superior				Regional			
	Trend	P	r ²	n	Trend	P	r ²	n	Trend	P	r ²	n
Northern Parula	0.68	0.36	0.26	53	1.32	0.00	0.38	87	1.11	0.00	0.36	140
Northern Waterthrush	2.08	0.14	0.54	22	3.98	0.00	0.89	28	3.01	0.00	0.83	50
Olive-sided Flycatcher	-5.76	0.00	0.76	13	-2.80	0.04	0.58	6	-4.96	0.00	0.73	19
Ovenbird	1.54	0.00	0.76	122	-0.02	0.90	0.00	147	0.66	0.00	0.41	269
Palm Warbler (Western)	3.02	0.34	0.78	11	-	-	-	-	-	-	-	-
Pileated Woodpecker	3.63	0.00	0.74	35	1.10	0.18	0.09	75	1.85	0.01	0.27	110
Pine Warbler	2.03	0.00	0.94	54	4.84	0.00	0.98	30	2.54	0.00	0.98	84
Purple Finch	0.85	0.60	0.16	25	3.45	0.01	0.84	25	2.09	0.04	0.67	50
Red-breasted Nuthatch	3.79	0.00	0.80	95	2.85	0.00	0.84	136	3.28	0.00	0.83	231
Red-eyed Vireo	-0.57	0.00	0.12	126	-1.03	0.00	0.49	147	-0.77	0.00	0.25	273
Red-winged Blackbird	-1.14	0.25	0.21	16	-1.46	0.44	0.23	8	-1.19	0.12	0.22	24
Rose-breasted Grosbeak	0.17	0.77	0.01	104	-1.18	0.02	0.48	131	-0.60	0.11	0.17	235
Ruby-crowned Kinglet	-	-	-	-	7.52	0.00	0.99	46	-	-	-	-
Ruby-throated Hummingbird	5.24	0.02	0.95	16	-	-	-	-	-	-	-	-
Ruffed Grouse	-	-	-	-	2.78	0.00	0.36	49	-	-	-	-
Scarlet Tanager	-1.38	0.01	0.74	91	-1.68	0.19	0.56	32	-1.37	0.00	0.68	123
Song Sparrow	-5.42	0.00	0.96	49	-4.08	0.01	0.72	43	-4.85	0.00	0.91	92
Swainson's Thrush	-	-	-	-	-3.97	0.00	0.82	73	-	-	-	-
Swamp Sparrow	-1.79	0.11	0.42	44	-1.37	0.12	0.19	27	-1.68	0.04	0.35	71
Tennessee Warbler	-	-	-	-	9.73	0.00	0.79	28	-	-	-	-
Veery	1.02	0.00	0.45	110	-0.49	0.18	0.65	136	0.31	0.22	0.24	246
White-breasted Nuthatch	0.30	0.79	0.14	44	-	-	-	-	-	-	-	-
White-throated Sparrow	0.06	0.84	0.00	79	-0.21	0.47	0.02	147	-0.13	0.53	0.01	226
Wilson's Snipe	2.42	0.30	0.33	8	-1.66	0.54	0.45	13	0.06	0.95	0.01	21
Winter Wren	-2.66	0.00	0.96	66	-0.83	0.00	0.26	130	-1.43	0.00	0.64	196

