

Appendix 6. Coefficients of factors resulting from of multivariate linear regression of species richness. Factors are  $\log_{10}$  housing density,  $\log_{10}$  area of core forest (in  $\text{m}^2$ ), and agricultural area (in  $\text{m}^2$ ). Regression was conducted for 1990 and 2000 separately.

	Guild	Intercept	LogHousing	LogCore	Ag	Rsquare
1990						
20 ecoregions together	forest and woodland species	17.25	0.95	5.61	0.01	0.29
	Neotropical migrants	-3.55	0.68	3.32	0.01	0.29
	short distance migrants	13.04	-0.17	1.07	0.00	0.14
	permanent residents	4.98	0.38	0.34	0.00	0.04
	synanthropes	0.84	0.15	-0.01	0.00	0.25
	Cavity nesting species	7.54	0.27	0.86	0.00	0.09
	ground nesting species	6.54	-0.20	1.05	-0.00	0.35
	forest interior species	-6.07	0.54	1.44	-0.00	0.26
Southern Rocky Mountain	forest and woodland species	1.73	3.59	3.81	-0.04	0.22
	Neotropical migrants	-5.76	1.16	2.07	-0.01	0.17
	short distance migrants	8.28	1.11	0.56	-0.02	0.20
	permanent residents	-2.83	0.52	1.12	-0.01	0.21
	synanthropes	1.76	0.10	-0.19	0.00	0.26
	Cavity nesting species	7.28	0.95	-0.25	-0.01	0.07
	ground nesting species	-0.17	0.24	1.43	-0.01	0.27
	forest interior species	0.49	0.04	0.11	0.00	0.02
Sierran Mixed	forest and woodland species	24.54	2.20	2.66	0.00	0.10
	Neotropical migrants	-4.06	0.72	2.54	0.00	0.36
	short distance migrants	14.23	-0.36	1.06	0.00	0.06
	permanent residents	8.78	1.08	-0.50	-0.01	0.14
	synanthropes	1.03	0.16	-0.09	0.00	0.20
	Cavity nesting species	11.72	0.51	0.19	0.00	0.02
	ground nesting species	4.25	-0.12	1.25	0.00	0.12
	forest interior species	-1.37	0.01	0.62	0.00	0.22

Adirondack-New England Mixed	forest and woodland species	38.71	-0.71	5.51	0.02	0.02
	Neotropical migrants	54.76	-1.14	-2.33	0.01	0.08
	short distance migrants	-2.61	0.30	3.30	0.00	0.09
	permanent residents	-17.28	0.51	3.14	0.00	0.12
	synanthropes	-1.06	0.30	-0.01	0.00	0.43
	Cavity nesting species	-27.83	0.65	5.76	0.00	0.18
	ground nesting species	26.70	-1.03	-0.53	0.01	0.18
	forest interior species	22.06	-0.56	-0.79	0.00	0.11
Laurentian Mixed Forest	forest and woodland species	81.55	-0.85	-0.60	-0.02	0.12
	Neotropical migrants	37.79	-0.86	-0.06	-0.01	0.19
	short distance migrants	30.61	-0.50	-0.68	-0.01	0.13
	permanent residents	3.69	0.42	0.07	0.00	0.03
	synanthropes	1.51	0.10	-0.09	0.00	0.14
	Cavity nesting species	14.40	0.21	-0.20	0.00	0.00
	ground nesting species	22.38	-0.67	-0.29	-0.01	0.29
	forest interior species	7.11	-0.37	1.14	-0.01	0.31
Central Appalachian	forest and woodland species	-29.54	-1.39	15.41	0.03	0.13
	Neotropical migrants	-4.40	-1.07	6.28	0.00	0.20
	short distance migrants	-4.95	-0.05	3.00	0.01	0.15
	permanent residents	-15.90	-0.12	4.03	0.01	0.10
	synanthropes	6.04	-0.12	-0.42	0.00	0.07
	Cavity nesting species	-7.64	-0.39	3.74	0.01	0.13
	ground nesting species	9.05	-0.72	1.33	0.00	0.29
	forest interior species	-27.17	-0.43	6.26	0.00	0.31
Outer Coastal Plain Mixed	forest and woodland species	30.65	-0.09	4.82	0.01	0.46
	Neotropical migrants	7.43	-0.12	2.77	0.00	0.43
	short distance migrants	9.67	0.18	0.86	0.00	0.26
	permanent residents	13.80	-0.32	0.37	0.00	0.14

Southern Mixed Forest	synanthropes	0.78	0.16	0.03	0.00	0.18
	Cavity nesting species	16.20	-0.34	0.75	0.00	0.18
	ground nesting species	5.22	0.02	0.55	0.00	0.14
	forest interior species	-0.22	0.06	1.08	0.00	0.26
	forest and woodland					
	species	8.08	0.42	7.81	0.00	0.24
	Neotropical migrants	6.02	-0.39	3.52	0.00	0.19
	short distance migrants	1.51	0.46	1.65	0.00	0.12
	permanent residents	11.01	-0.17	0.69	0.00	0.16
	synanthropes	1.06	0.11	0.13	0.00	0.06
Eastern Broadleaf (Continental)	Cavity nesting species	9.48	0.04	1.38	0.00	0.17
	ground nesting species	3.72	-0.21	1.14	0.00	0.09
	forest interior species	-0.16	-0.09	1.45	0.00	0.22
	forest and woodland					
	species	51.10	-1.00	4.03	-0.01	0.38
	Neotropical migrants	23.33	-0.72	1.93	-0.01	0.39
	short distance migrants	14.75	-0.13	0.63	0.00	0.09
	permanent residents	-0.27	0.01	1.79	0.00	0.36
	synanthropes	1.52	0.06	0.12	0.00	0.04
	Cavity nesting species	8.69	-0.04	1.36	0.00	0.16
Eastern Broadleaf (Oceanic)	ground nesting species	15.99	-0.87	0.59	-0.01	0.51
	forest interior species	5.83	-0.32	0.93	0.00	0.47
	forest and woodland					
	species	7.75	-0.36	8.91	0.01	0.26
	Neotropical migrants	-4.66	-0.79	6.01	0.00	0.35
	short distance migrants	9.04	0.25	0.80	0.00	0.03
	permanent residents	8.32	-0.26	0.74	0.00	0.08
	synanthropes	4.11	-0.08	-0.18	0.00	0.12
	Cavity nesting species	3.02	0.10	1.61	0.01	0.16
	ground nesting species	-4.02	0.16	2.04	0.00	0.30
	forest interior species	-3.17	-0.46	2.70	0.00	0.38

2000

20 ecoregions together	forest and woodland species	13.57	1.22	5.83	0.01	0.30
	Neotropical migrants	-3.45	0.70	3.20	0.00	0.28
	short distance migrants	11.38	-0.02	1.15	0.00	0.13
	permanent residents	4.55	0.44	0.39	0.00	0.06
	synanthropes	0.65	0.17	-0.03	0.00	0.25
	Cavity nesting species	5.55	0.44	0.92	0.00	0.12
	ground nesting species	6.05	-0.22	1.14	0.00	0.34
	forest interior species	-7.35	0.62	1.50	0.00	0.25
Southern Rocky Mountain	forest and woodland species	2.65	2.72	4.82	-0.04	0.25
	Neotropical migrants	-3.41	0.94	1.96	-0.01	0.27
	short distance migrants	3.58	0.90	1.60	-0.02	0.24
	permanent residents	-4.10	0.87	1.01	-0.01	0.21
	synanthropes	1.67	0.08	-0.16	0.00	0.17
	Cavity nesting species	-0.25	1.00	1.04	-0.01	0.15
	ground nesting species	-2.50	0.95	1.09	-0.02	0.28
	forest interior species	-0.65	0.03	0.35	-0.01	0.22
Sierran Mixed	forest and woodland species	47.90	1.10	0.31	-0.03	0.07
	Neotropical migrants	2.88	0.48	1.85	-0.01	0.35
	short distance migrants	19.61	-0.15	-0.01	0.00	0.01
	permanent residents	17.21	0.60	-1.33	-0.01	0.13
	synanthropes	1.49	0.12	-0.17	0.00	0.22
	Cavity nesting species	23.84	0.13	-1.52	-0.01	0.07
	ground nesting species	3.20	0.14	1.23	0.00	0.15
	forest interior species	-3.26	-0.04	1.04	0.00	0.38
Adirondack-New England Mixed	forest and woodland species	-9.84	0.46	11.13	0.01	0.09
	Neotropical migrants	-0.47	-0.68	5.25	0.00	0.07

	short distance migrants	13.33	0.64	0.53	-0.01	0.09
	permanent residents	-3.43	0.42	1.11	0.01	0.17
	synanthropes	4.14	0.26	-0.73	0.00	0.33
	Cavity nesting species	-15.08	0.99	3.22	0.01	0.28
	ground nesting species	21.74	-0.88	-0.01	0.00	0.25
	forest interior species	5.55	-0.19	1.23	0.00	0.06
	forest and woodland					
	species	53.47	0.20	2.31	-0.01	0.06
	Neotropical migrants	30.81	-0.88	0.96	-0.01	0.16
	short distance migrants	23.30	-0.22	0.09	0.00	0.06
Laurentian Mixed Forest	permanent residents	-1.77	0.71	0.62	0.00	0.10
	synanthropes	0.36	0.19	-0.05	0.00	0.24
	Cavity nesting species	5.21	0.48	0.92	0.00	0.04
	ground nesting species	14.94	-0.58	0.80	-0.01	0.30
	forest interior species	2.65	-0.16	1.53	-0.01	0.37
	forest and woodland					
	species	76.11	-1.88	1.00	0.01	0.02
	Neotropical migrants	20.65	-0.48	1.68	0.00	0.03
	short distance migrants	24.19	-0.21	-0.80	0.00	0.06
	permanent residents	9.39	-0.73	1.25	0.01	0.11
Central Appalachian	synanthropes	8.40	-0.17	-0.72	0.00	0.14
	Cavity nesting species	16.44	-0.94	1.01	0.01	0.15
	ground nesting species	10.06	0.09	0.01	0.00	0.05
	forest interior species	-10.13	-0.20	3.51	0.00	0.24
	forest and woodland					
	species	23.89	0.58	4.85	0.01	0.38
	Neotropical migrants	9.05	-0.29	2.72	0.00	0.38
	short distance migrants	6.87	0.55	0.73	0.00	0.18
	permanent residents	11.10	-0.07	0.38	0.00	0.09
	synanthropes	0.01	0.24	0.00	0.00	0.18
Outer Coastal Plain Mixed	Cavity nesting species	12.43	-0.02	0.81	0.00	0.16

Southern Mixed Forest	ground nesting species	7.66	-0.22	0.46	0.00	0.08
	forest interior species	-0.61	0.08	1.14	0.00	0.30
	forest and woodland					
	species	39.03	-0.90	5.28	0.00	0.19
	Neotropical migrants	25.97	-1.49	2.14	0.00	0.20
	short distance migrants	2.90	0.51	1.44	0.00	0.10
	permanent residents	10.59	-0.05	0.50	0.00	0.03
	synanthropes	0.47	0.13	0.08	0.00	0.12
	Cavity nesting species	10.45	0.03	1.02	0.00	0.05
	ground nesting species	10.41	-0.35	0.35	0.00	0.13
Eastern Broadleaf (Continental)	forest interior species	2.28	-0.37	1.64	0.00	0.24
	forest and woodland					
	species	38.30	-1.15	5.99	0.00	0.41
	Neotropical migrants	18.52	-0.99	2.80	0.00	0.45
	short distance migrants	13.81	-0.15	0.82	0.00	0.10
	permanent residents	-2.86	0.13	2.07	0.00	0.33
	synanthropes	-0.09	0.13	0.23	0.00	0.09
	Cavity nesting species	1.65	0.20	1.93	0.01	0.18
	ground nesting species	14.67	-0.92	0.92	-0.01	0.57
	forest interior species	5.71	-0.46	1.20	0.00	0.50
Eastern Broadleaf (Oceanic)	forest and woodland					
	species	23.58	-1.24	8.28	0.01	0.34
	Neotropical migrants	-1.41	-0.99	5.84	0.00	0.43
	short distance migrants	11.45	0.09	0.79	0.00	0.06
	permanent residents	11.91	-0.29	0.37	0.00	0.05
	synanthropes	4.11	-0.07	-0.19	0.00	0.08
	Cavity nesting species	6.46	-0.02	1.38	0.01	0.15
	ground nesting species	-3.91	0.08	2.16	0.00	0.31
	forest interior species	-3.58	-0.51	2.91	0.00	0.45

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