

Appendix A: Weights used to connect individual states, provinces and territories to wintering ground farther south. Part 1. Canadian provinces and territories

(Part of Blancher et al. 2006. PIF Technical Series No. 4.)⁴

Priority Species ¹	Map Weights for Priority Species in each Province and Territory ²												
	AB ³	BC	MB	NB	NL	NS	NT	NU	ON	PE	QC	SK	YK
Rock Ptarmigan								0.78					0.72
Bald Eagle		1.05											0.77
Northern Harrier	0.79		0.34				0.88		0.09		0.24	0.94	0.25
Sharp-shinned Hawk	0.53		0.37		0.09				0.30		0.51	0.26	
Cooper's Hawk		0.27											
Northern Goshawk	0.17	0.60					0.18						2.28
Broad-winged Hawk			0.76						2.24		0.65		
Swainson's Hawk	2.06	0.02	0.23									1.22	
Ferruginous Hawk	0.91		0.09									0.81	
Rough-legged Hawk					0.03		1.49	1.98			1.05		0.12
Golden Eagle							1.06	0.08			0.64		0.24
American Kestrel		0.29							0.26		0.24		
Merlin	1.17	0.09	2.81		0.38		0.95	0.06	1.04		0.93	0.98	0.11
Gyr Falcon							0.52	2.84					1.76
Peregrine Falcon							0.43	0.41			0.02		0.48
Band-tailed Pigeon		0.41											
Black-billed Cuckoo	0.05		3.34	0.25		0.04			1.22		0.34	1.17	
Flammulated Owl		0.23											
Snowy Owl							1.29	4.01					0.19
Burrowing Owl	0.00											0.01	
Short-eared Owl	1.07	0.34	0.06		0.11		0.68	0.14			0.38	0.32	0.45
Northern Saw-whet Owl	0.33	0.40		0.21		0.25				0.21	0.23		0.02
Common Poorwill		0.01											
Whip-poor-will			0.07						0.14		0.07		
Black Swift		3.19											
Chimney Swift			0.01						0.04		0.03		
Vaux's Swift		1.27											
White-throated Swift		0.04											
Calliope Hummingbird		2.04											
Rufous Hummingbird	0.09	3.80											0.10
Belted Kingfisher	0.15	0.33	0.34	0.35	0.16	0.24	0.47	0.00	0.95	1.13	1.37	0.21	0.52
Lewis's Woodpecker		0.30											
Red-headed Woodpecker			0.08										
Williamson's Sapsucker		0.03											
Yellow-bellied Sapsucker	1.43	0.47	1.09	1.45		0.57	0.88		1.82	0.04	1.18	0.85	0.12
Red-naped Sapsucker	0.03	4.27											
Red-breasted Sapsucker		1.94											
Northern Flicker	0.29	0.37	0.59				0.53		0.49		0.53	0.28	0.63
Olive-sided Flycatcher	0.40	0.98	0.63	0.17	0.42	0.34	0.38	0.00	0.50	0.06	0.30	0.25	2.10
Eastern Wood-Pewee									0.37		0.13		
Yellow-bellied Flycatcher	0.19		0.65		7.42				0.65		1.11	0.29	
Alder Flycatcher	1.05	0.32	0.68		0.03		0.57	0.02	0.48		0.83	0.59	0.68
Willow Flycatcher	0.16	2.23	0.02	0.01		0.02			0.16		0.05	0.02	
Least Flycatcher	3.08	0.60	1.41				0.59		1.29		1.00	1.45	0.23

Priority Species ¹	Map Weights for Priority Species in each Province and Territory ²												
	AB ³	BC	MB	NB	NL	NS	NT	NU	ON	PE	QC	SK	YK
Hammond's Flycatcher	0.03	3.99											
Gray Flycatcher		0.05											
Dusky Flycatcher	0.14	2.94											0.04
Pacific-slope Flycatcher		2.18											
Eastern Kingbird									0.31		0.14		
Loggerhead Shrike	0.16		0.03									0.23	
Northern Shrike			0.46		0.20		3.13	0.11			0.31		
Yellow-throated Vireo											0.18		
Cassin's Vireo	0.12	3.88											
Blue-headed Vireo	1.05		1.20	1.59	0.15	2.65			1.19	0.37	1.47	0.59	
Philadelphia Vireo	0.98		0.55		0.02				0.89		5.45	0.80	
Black-billed Magpie	2.56		0.07				0.00					0.69	
Horned Lark	0.40		0.17									0.76	
Tree Swallow				0.67		0.68				0.17	1.14		
Northern Rough-winged Swallow			0.00						0.04		0.00		
Bank Swallow			0.36						0.31		0.46		
Barn Swallow			0.42						0.27		0.20		
Rock Wren		0.01											
Winter Wren	0.02		0.55		0.03				1.91		2.24	0.29	
Sedge Wren	0.08		3.25						0.11		0.00	0.91	
Golden-crowned Kinglet	0.37	1.84											
Ruby-crowned Kinglet	0.82		0.45		0.59				0.86		2.40	0.24	
Townsend's Solitaire	0.18	1.12											
Veery			0.94	1.17		0.32			2.43	0.02	1.87		
Bicknell's Thrush				3.00		4.24					5.10		
Wood Thrush				0.06		0.00			0.33		0.23		
Varied Thrush		0.66					1.29						1.05
Brown Thrasher	0.05		0.22						0.17		0.06	0.41	
Sprague's Pipit	8.00		0.40									3.50	
Bohemian Waxwing							2.48						8.86
Blue-winged Warbler									0.09				
Golden-winged Warbler			0.01						1.60		0.02		
Tennessee Warbler	0.87	0.10	2.15		0.34		0.92	0.00	0.95		1.02	0.99	0.35
Orange-crowned Warbler		0.78											0.66
Nashville Warbler			2.93		0.01				1.92		2.24	1.32	
Northern Parula				2.50		3.01				2.78	0.21		
Chestnut-sided Warbler			1.48						3.09		1.73	0.89	
Magnolia Warbler	0.13		1.40	1.10	0.53	1.52			1.97	0.21	1.99	0.77	
Cape May Warbler	0.40		2.77		0.70				2.17		2.01	1.50	
Black-throated Blue Warbler				1.05		0.48			1.87		3.17		
Black-throated Gray Warbler		1.45											
Black-throated Green Warbler	0.10		0.37	1.82	0.79	1.99			2.91	0.88	1.84	0.17	
Townsend's Warbler	0.11	2.77											0.16
Blackburnian Warbler			3.56	1.22		0.90			2.18	0.14	1.13	1.85	
Prairie Warbler									0.00				
Palm Warbler	0.26		0.90		0.84		0.84		0.27		1.02	0.73	
Bay-breasted Warbler	0.30	0.02	0.64	2.19	0.02	0.54	0.74		4.07	0.21	2.63	0.39	0.02
Blackpoll Warbler	0.08	0.16	1.43	0.04	2.35	0.06	1.92	0.24	0.50		0.45	0.23	1.55

Priority Species ¹	Map Weights for Priority Species in each Province and Territory ²												
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Cerulean Warbler									0.04				
Black-and-white Warbler	0.33		1.40	0.80	0.78	1.36			2.14	0.41	1.13	0.90	
American Redstart				1.80		1.54				0.80	1.60		
Ovenbird	0.67		1.35		0.05				2.30		1.04	0.89	
Connecticut Warbler	2.24	0.58	5.53						0.54		0.24	3.71	
Mourning Warbler	0.85		2.28		1.05				2.64		1.47	1.25	
MacGillivray's Warbler		4.17											0.06
Common Yellowthroat			0.76						0.69		0.90		
Wilson's Warbler		1.31					1.15						1.51
Canada Warbler	1.10	0.05	1.82	1.52		0.95	0.00		2.20	0.07	2.01	1.11	0.01
Spotted Towhee		0.85											
Eastern Towhee									0.04		0.00		
Clay-colored Sparrow	5.44	0.46	1.95				0.58					3.82	
Brewer's Sparrow	0.05	0.03											0.02
Field Sparrow			0.00						0.09		0.03		
Lark Bunting	0.10		0.00										0.17
Savannah Sparrow									0.60		0.66		
Grasshopper Sparrow	0.14		0.02										0.03
Baird's Sparrow	3.40		0.21									5.12	
Henslow's Sparrow									0.03				
Le Conte's Sparrow	6.25	0.10	2.03				0.73					3.02	
Nelson's Sharp-tailed Sparrow	4.60		2.24	0.96		2.30	0.30			9.70	0.05	3.18	
Lincoln's Sparrow	1.41	0.66	0.29		0.70		0.75	0.00	0.56		1.68	0.29	0.44
Swamp Sparrow	0.47		0.93		2.39		1.01	0.01	0.89		0.93	0.67	
White-throated Sparrow	0.86		0.78	0.47	0.63	0.17	1.14	0.01	1.74	0.33	2.92	0.57	
Harris's Sparrow			2.18				4.01	2.93	0.13			0.20	
White-crowned Sparrow		0.14					1.71						1.97
McCown's Longspur	0.97											3.35	
Lapland Longspur			0.03		0.01		1.37	3.08			0.99		0.09
Smith's Longspur		0.11	1.58				2.04	1.49	0.85				2.50
Chestnut-collared Longspur	2.94		0.13									0.69	
Snow Bunting							1.21	3.21			0.04		0.80
Rose-breasted Grosbeak			1.77						1.09		0.45		
Lazuli Bunting	0.06	1.15											
Bobolink			0.61	0.62		0.81			1.72	2.24	0.82		
Eastern Meadowlark									0.14		0.04		
Western Meadowlark	0.42		0.19									0.41	
Rusty Blackbird	0.20	0.18	1.17	0.05	2.84	0.19	1.41	0.03	0.77	0.21	0.71	0.13	1.26
Brewer's Blackbird		0.40											
Bullock's Oriole		0.22											
Baltimore Oriole									0.36		0.11		
Gray-crowned Rosy-Finch		1.04					0.16						4.64
Pine Grosbeak					6.36		0.39	0.00					1.31
Purple Finch	0.38	0.32	0.37	0.97	0.96	0.82			1.35		1.44	0.22	0.65
Cassin's Finch		0.37											
Red Crossbill		1.05											0.12
White-winged Crossbill							0.48	0.06	0.14		1.79		2.16
Hoary Redpoll							0.34	3.52					

Priority Species ¹	Map Weights for Priority Species in each Province and Territory ²												
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Evening Grosbeak			1.11	0.96		1.03			1.52	0.01	1.41	0.36	

¹ Priority Species (Species of Conservation Importance) for Canadian provinces and territories determined from Panjabi et al. (2005). Year-round resident species are not included here, nor in maps

² Map weights determined by the proportion of a species' world population that breeds in the province or territory and then migrates beyond provincial / territorial borders for the winter. Average weight in each province and territory adjusted to 1.0. Bold type highlights species with weights ≥ 1 (i.e. at or above provincial / territorial average).

³ Standard 2-letter acronyms for each province and territory: AB=Alberta; BC=British Columbia; MB=Manitoba; NB=New Brunswick; NL=Newfoundland & Labrador; NS=Nova Scotia; NT=Northwest Territories; NU=Nunavut; ON=Ontario; PE=Prince Edward Island; QC=Quebec; SK=Saskatchewan; YK=Yukon.

⁴ Blancher, P.J., B. Jacobs, A. Couturier, C.J. Beardmore, R. Dettmers, E.H. Dunn, W. Easton, E.E. Iñigo-Elias, T.D. Rich, K.V. Rosenberg and J.M. Ruth. 2006. Making Connections for Bird Conservation: Linking States, Provinces & Territories to Important Wintering and Breeding Grounds. Partners in Flight Technical Series No. 4. <http://www.partnersinflight.org/pubs/ts/04-Connections>

Downloadable Excel file includes all states, provinces and territories, and includes scientific names and file sequence numbers for re-sorting file to taxonomic order.