

Appendix A: Weights used to connect individual states, provinces and territories to wintering grounds farther south. Part 2. Western U.S. States (PIF-West Region)

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

Priority Species ¹	Map Weights for Priority Species in each State ²											
	AK ³	AZ	CA	CO	ID	MT	NM	NV	OR	UT	WA	WY
Bald Eagle	2.45											
Northern Harrier					0.07	1.15				0.03	0.06	
Cooper's Hawk		0.09	0.04								0.14	
Northern Goshawk	0.24	0.04	0.01		0.18	0.08			0.19	0.09		
Common Black-Hawk		0.64					0.11					
Swainson's Hawk		0.09	0.06	1.57	0.94	1.44	1.31	0.25	0.10	0.41	0.32	0.57
Ferruginous Hawk				0.31	0.77	3.44		0.03	0.43	1.68	0.20	3.54
Golden Eagle						0.15		0.69	0.03	1.10		1.02
Gyr Falcon	0.83											
Peregrine Falcon	0.77	0.30	0.31				0.36		0.31		0.44	
Prairie Falcon			0.04	0.22				2.80	0.88	1.05		1.51
Yellow Rail						0.22						
Black Rail		0.06	0.16									
Virginia Rail						0.09						0.18
Sandhill Crane	0.54			0.03	0.96	1.56		0.35	0.22			0.53
Killdeer					0.13	0.24						0.04
Upland Sandpiper				0.04		0.74						0.20
Black Tern						0.05						
Band-tailed Pigeon				0.05			0.04		0.47	0.02	0.94	
White-winged Dove		2.11	0.10							0.00		
Black-billed Cuckoo						0.14						0.05
Yellow-billed Cuckoo					0.00					0.00		
Flammulated Owl		1.04	0.96	0.95	1.23	0.33	0.76	0.18	1.15	0.81	0.68	0.19
Elf Owl		2.86	0.00				1.15					
Burrowing Owl			0.52	1.17		0.13	0.25			0.24		0.05
Long-eared Owl		0.14		0.00	0.31		0.18	0.23		0.29		0.34
Short-eared Owl	0.83				0.82	1.43				0.65	0.17	
Northern Saw-whet Owl					0.46				0.14	0.21	0.14	
Common Nighthawk		0.15					1.27					
Common Poorwill		0.36					1.20					
Buff-collared Nighthawk		0.61					0.05					
Black Swift			0.28		0.14			0.00		0.05	1.48	
Vaux's Swift	0.01		0.35		1.40	0.10			1.30		1.76	
White-throated Swift		0.19		1.00	0.30	0.02	0.29		0.59	3.16	1.40	1.05
Broad-billed Hummingbird		0.34										
Lucifer Hummingbird		0.72					0.26					
Black-chinned Hummingbird		1.39	0.73	0.88	0.20		2.31	0.69	0.05	1.68	0.11	0.03
Anna's Hummingbird			5.56									
Costa's Hummingbird		0.00	1.75									
Calliope Hummingbird			0.42		6.71	1.37		0.93	0.73		3.00	1.84
Broad-tailed Hummingbird		0.56		6.00	0.21		2.16	0.78		3.27		0.54
Rufous Hummingbird	0.69		0.04		0.48	0.16			1.48		2.54	0.02
Allen's Hummingbird			7.68						0.36			
Elegant Trogon		0.64					0.04					

Map Weights for Priority Species in each State ²												
Priority Species ¹	AK ³	AZ	CA	CO	ID	MT	NM	NV	OR	UT	WA	WY
Lewis's Woodpecker		0.41		1.34	1.24	0.08			0.42		3.88	
Red-headed Woodpecker				0.06		0.02						0.08
Williamson's Sapsucker		0.72		1.49	0.34	0.40			4.79	0.47	1.34	0.39
Red-naped Sapsucker				0.69	1.82	1.08			0.41		0.84	0.63
Red-breasted Sapsucker	0.92											
Northern Beardless-Tyrannulet		0.23										
Olive-sided Flycatcher	0.96	0.04	0.51	0.29	0.65	0.28	0.04	0.01	0.64	0.19	0.40	0.09
Greater Pewee		1.25					0.26					
Western Wood-Pewee		0.33	0.88				0.61	0.12				
Willow Flycatcher		0.00	0.01	0.11	1.54	1.54	0.02	0.01	0.81	0.09	2.65	0.27
Hammond's Flycatcher			0.23	0.18	1.28	0.91		0.01	0.75	0.07	1.29	0.08
Gray Flycatcher		0.10	0.42	0.67	1.42		0.48	8.31	2.90	0.71	0.02	0.08
Dusky Flycatcher			0.67	0.89	1.76	1.65		0.28	1.76	0.46	0.84	0.50
Pacific-slope Flycatcher	0.83		1.38						1.51		3.22	
Cordilleran Flycatcher		2.21					2.60					
Buff-breasted Flycatcher		0.06										
Say's Phoebe		0.40		1.19	0.13	1.05	1.92	0.39		1.86		1.48
Ash-throated Flycatcher		1.67	1.49				1.33					
Sulphur-bellied Flycatcher		0.29										
Cassin's Kingbird		1.62					2.81					
Thick-billed Kingbird		0.03										
Western Kingbird		0.51					1.00					
Loggerhead Shrike				0.42	0.05	0.50	0.33					0.54
Northern Shrike	0.95											
Bell's Vireo		2.34	0.02				0.06					
Gray Vireo		2.41	0.01	0.27			0.67	0.01		10.00		
Plumbeous Vireo		1.19		1.94	0.57		2.73	0.37		2.15		0.43
Cassin's Vireo			1.52		1.15	0.96		0.02	0.99		1.20	
Warbling Vireo			0.21					0.08				
Black-billed Magpie				0.33	0.89			0.96			0.44	
Chihuahuan Raven							3.08					
Violet-green Swallow		0.49	0.46	1.33	0.83		0.92	0.09		0.77		0.66
Northern Rough-winged Swallow			0.08					0.22		0.15		
Rock Wren				0.46	1.56	0.57		1.62	1.04	2.01	0.57	2.42
Bewick's Wren		0.22										
Marsh Wren			0.41					0.20				
Golden-crowned Kinglet	0.20		0.03					0.20			0.87	
Western Bluebird		0.47	1.91	0.19			1.14					
Mountain Bluebird				0.65	1.24	1.44				1.64		2.57
Townsend's Solitaire			0.20						0.46			
Varied Thrush	2.31											
Sage Thrasher			0.04	0.92	1.80	0.18		7.70	1.69	1.73	0.16	3.65
Brown Thrasher						0.18						
Bendire's Thrasher			0.22				3.68	0.10		0.40		
Sprague's Pipit						2.17						
Phainopepla		1.79	0.61				0.13	0.02		0.00		
Nashville Warbler								0.00				
Virginia's Warbler		3.54	0.02	4.45	0.03		3.98			2.32		0.05

Priority Species ¹	Map Weights for Priority Species in each State ²											
	AK ³	AZ	CA	CO	ID	MT	NM	NV	OR	UT	WA	WY
Lucy's Warbler		8.33	0.00				0.39	0.41		0.04		
Black-throated Gray Warbler		0.80	2.37	0.60	0.27		0.44	0.59	1.55	0.68	3.08	0.05
Townsend's Warbler	1.35				2.42	1.03			0.21		0.88	0.00
Hermit Warbler			3.16					0.05	7.10		1.39	
Grace's Warbler		3.04		0.20			2.65	0.00		0.20		
Blackpoll Warbler	1.25											
MacGillivray's Warbler	0.03		0.21		2.27			0.22	0.79	0.34	0.86	0.29
Wilson's Warbler	2.00			0.17	0.10					0.00		0.05
Canada Warbler												
Red-faced Warbler		1.36					1.64					
Painted Redstart		1.36					1.13					
Hepatic Tanager		1.27					1.58					
Western Tanager			1.05					0.16				
Green-tailed Towhee			0.25	4.27	1.19	0.19	0.02	2.50	0.90	3.96		2.99
Spotted Towhee			1.26								1.00	
Cassin's Sparrow				1.30			0.90					
Clay-colored Sparrow						0.29						
Brewer's Sparrow				0.92	2.01	0.92		6.42	1.34	2.34	0.19	3.02
Black-chinned Sparrow		1.70	3.55				1.19	0.00		0.44		
Lark Sparrow				1.10			0.83					1.18
Black-throated Sparrow		0.03	0.55					1.70		1.06		
Sage Sparrow					0.43	0.01		5.53	0.91	2.06	0.07	3.02
Lark Bunting				2.96	0.01	4.29				0.00		4.03
Grasshopper Sparrow			0.01	1.14	0.13	0.62	0.05	0.00	0.01	0.12	0.20	0.47
Baird's Sparrow						1.64						0.01
Le Conte's Sparrow						0.00						
McCown's Longspur				1.64		4.73						6.55
Smith's Longspur	1.09											
Chestnut-collared Longspur				0.07		4.31						0.56
Black-headed Grosbeak		0.63	2.43				1.08	0.24	1.34		1.34	
Lazuli Bunting			1.37	0.84	4.18	0.78	0.09	1.59	1.65	1.50	1.10	0.58
Varied Bunting		0.04										
Dickcissel				0.02		0.00	0.00					0.00
Bobolink					0.03			0.03	0.03	0.00	0.01	0.03
Tricolored Blackbird									0.40			
Eastern Meadowlark							0.17					
Western Meadowlark				0.51	0.60	1.80						1.51
Yellow-headed Blackbird				0.20	0.66	0.68		1.75		0.88		0.44
Rusty Blackbird	1.22											
Hooded Oriole		1.48	0.48				0.09	0.00		0.01		
Bullock's Oriole			1.55						0.48		0.95	
Scott's Oriole		1.32	0.45				1.23	0.55		0.18		
Gray-crowned Rosy-Finch	2.02											
Black Rosy-Finch					0.71	4.72						2.56
Brown-capped Rosy-Finch				3.61								
Purple Finch			0.35					0.01			0.28	
Cassin's Finch			0.84	0.05	2.39	0.13			1.87		0.47	
Red Crossbill	0.51								1.29		1.09	

Priority Species ¹	Map Weights for Priority Species in each State ²											
	AK ³	AZ	CA	CO	ID	MT	NM	NV	OR	UT	WA	WY
Pine Siskin				0.30						0.11		0.05
Lesser Goldfinch			1.79						0.12	0.17		
Lawrence's Goldfinch			6.97									

¹ Priority Species (Species of Conservation Importance) for U.S. states from Rosenberg (2004). 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 state and then migrates beyond state borders for the winter. Average weight in each state adjusted to 1.0. Bold type highlights species with weights ≥ 1 (i.e. at or above state average).

³ Standard 2-letter acronyms for each state: AK=Alaska; AZ=Arizona; CA=California; CO=Colorado; ID=Idaho; MT=Montana; NM=New Mexico; NV=Nevada; OR=Oregon; UT=Utah; WA=Washington; WY=Wyoming.

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.