

Appendix 1. List of 305 species included in the analysis, along with their habitat guild classification, latitudinal distances moved, change in average distance from the coast, and continental population trend estimates.

Species	Scientific_name	Habitat Guild (3 classes)	Habitat Guild (5 classes)	Feeder use	Mean latitude (40-yr ave from regression)				F-value latitude slope	p-value latitude slope	Mean dist. from coast (40-yr ave. from regression)	Change in mean dist. from coast (miles)	Shifted inland or to coast	F-value slope dist. to coast	p-value slope dist. to coast	# state or province strata	40-year			
					Latitudinal distance moved		Direction Moved	Median Trend (% change per year)									95% LCI Trend	95% UCI Trend	% of hemispheric range in CBC survey area	
Greater White-fronted Goose	Anser albifrons	wetland/aquatic	wetland/aquatic	rarely/never	32.95	-60.6	S	20.7	<0.0001		237.5	-28.1	to coast	14.48	0.0005	41	10.1	7.8	12.4	46.3
Snow Goose	Chen caerulescens	wetland/aquatic	wetland/aquatic	rarely/never	33.14	217.1	N	165.8	<0.0001		280.0	149.2	inland	99.44	<0.0001	51	7.3	5.1	9.5	84.7
Ross's Goose	Chen rossii	wetland/aquatic	wetland/aquatic	rarely/never	34.68	-52.3	S	88.85	<0.0001		412.6	48.4	inland	3.06	0.0881	29	15.8	12.7	18.8	75.7
Brant	Branta bernicla	coastal	coastal	rarely/never	41.90	193.4	N	105.4	<0.0001							18	3.8	0.8	6.6	53.7
"Canada" Goose (lumped)		wetland/aquatic	wetland/aquatic	occasionally	41.03	119.9	N	79.24	<0.0001		421.9	281.5	inland	821.83	<0.0001	55	11	9.6	12.7	93.8
Mute Swan	Cygnus olor	wetland/aquatic	wetland/aquatic	rarely/never	43.52	-122.9	S	111.9	<0.0001		276.1	234.4	inland	1056.23	<0.0001	32	8.8	7.3	10	95.2
Trumpeter Swan	Cygnus buccinator	wetland/aquatic	wetland/aquatic	rarely/never	52.23	-36.4	S	14.57	0.00050		162.2	28.8	inland	15.87	0.0003	25	12.1	10.1	14.3	90.6
Tundra Swan	Cygnus columbianus	wetland/aquatic	wetland/aquatic	rarely/never	41.24	129.1	N	441.63	<0.0001		231.8	1.7	inland	0.02	0.8791	46	-0.41	-5.1	1.7	78.1
Wood Duck	Aix sponsa	wetland/aquatic	wetland/aquatic	rarely/never	33.79	37.1	N	39.68	<0.0001		182.4	12.2	inland	22.15	<0.0001	51	3.7	2.6	4.6	81.2
Gadwall	Anas strepera	wetland/aquatic	wetland/aquatic	rarely/never	33.91	148.9	N	383.38	<0.0001		272.3	20.0	inland	8.18	0.0069	53	5.1	4.2	6	72.1
American Wigeon	Anas americana	wetland/aquatic	wetland/aquatic	rarely/never	42.02	-70.7	S	18.88	0.00010		184.0	41.3	inland	238.2	<0.0001	53	1	0.1	1.8	61.7
American Black Duck	Anas rubripes	wetland/aquatic	wetland/aquatic	rarely/never	42.80	182.0	N	355.14	<0.0001		160.7	-71.1	to coast	233.57	<0.0001	41	0.2	-0.4	0.9	99.1
Blue-winged Teal	Anas discors	wetland/aquatic	wetland/aquatic	rarely/never	30.71	-4.2	S	0.78	0.38390		129.7	0.7	inland	0.07	0.7908	48	2.7	1.7	3.8	17.9
Cinnamon Teal	Anas cyanoptera	wetland/aquatic	wetland/aquatic	rarely/never	35.72	159.4	N	164.53	<0.0001		202.2	-65.0	to coast	200.26	<0.0001	14	2.1	0.8	3.3	8.5
Northern Shoveler	Anas clypeata	wetland/aquatic	wetland/aquatic	rarely/never	34.03	78.5	N	79.66	<0.0001		232.2	15.0	inland	7.24	0.0105	48	5.7	4.7	6.8	47.5
Northern Pintail	Anas acuta	wetland/aquatic	wetland/aquatic	rarely/never	36.61	91.0	N	23.88	<0.0001		226.8	27.0	inland	38.47	<0.0001	55	-2.39	-3.3	-1.6	62.1
Green-winged Teal	Anas crecca	wetland/aquatic	wetland/aquatic	rarely/never	36.56	157.2	N	40.65	<0.0001		254.4	35.3	inland	56.18	<0.0001	54	1.1	0.1	1.9	70.0
Canvasback	Aythya valisineria	wetland/aquatic	wetland/aquatic	rarely/never	36.68	-74.4	S	19.32	<0.0001		225.2	109.7	inland	233.8	<0.0001	49	-2.46	-3.4	-1.6	73.4
Redhead	Aythya americana	wetland/aquatic	wetland/aquatic	rarely/never	35.68	68.1	N	10.91	0.00210		342.7	87.6	inland	126.87	<0.0001	51	2	0.8	3.2	65.0
Ring-necked Duck	Aythya collaris	wetland/aquatic	wetland/aquatic	rarely/never	35.78	219.2	N	787.35	<0.0001		228.1	84.4	inland	805.93	<0.0001	52	4.1	3.3	4.8	69.9
Greater Scaup	Aythya marila	wetland/aquatic	wetland/aquatic	rarely/never	50.69	-135.7	S	420.31	<0.0001		132.3	11.0	inland	18.64	0.0001	49	-1.98	-3.7	-0.4	58.2
Lesser Scaup	Aythya affinis	wetland/aquatic	wetland/aquatic	rarely/never	34.44	61.0	N	3.64	0.06380		191.3	85.9	inland	73.59	<0.0001	54	0.4	-0.9	1.5	51.5
King Eider	Somateria spectabilis	coastal	coastal	rarely/never	55.46	-62.6	S	1.22	0.27620							14	-1.7	-6.7	2.8	9.0
Common Eider	Somateria mollissima	coastal	coastal	rarely/never	45.01	-13.0	S	6.8	0.01290							14	4.7	3.3	6.3	1.6
Harlequin Duck	Histrionicus histrionicus	coastal	coastal	rarely/never	55.48	-14.7	S	29.56	<0.0001							22	0.7	-0.2	1.6	4.5
Surf Scoter	Melanitta perspicillata	coastal	coastal	rarely/never	51.31	-47.3	S	29.85	<0.0001							33	-0.64	-1.9	0.5	3.4
White-winged Scoter	Melanitta fusca	wetland/aquatic	wetland/aquatic	rarely/never	50.81	130.3	N	69.72	<0.0001	81.1	-13.8	to coast	64.16	<0.0001		39	-3.19	-4.3	-2.2	3.8
Black Scoter	Melanitta nigra	coastal	coastal	rarely/never	50.04	-233.1	S	17.85	0.00010							30	-1.95	-4	0.1	5.3
Long-tailed Duck	Clangula hyemalis	wetland/aquatic	wetland/aquatic	rarely/never	48.53	-45.9	S	48.23	<0.0001		64.6	-16.1	to coast	15.38	0.0004	49	-1.51	-3.1	-0.3	13.4
Bufflehead	Bucephala albeola	wetland/aquatic	wetland/aquatic	rarely/never	45.93	-267.4	S	464.49	<0.0001		156.1	48.0	inland	347.75	<0.0001	53	3	2.2	3.6	72.4
Common Goldeneye	Bucephala clangula	wetland/aquatic	wetland/aquatic	rarely/never	46.65	-122.7	S	329.88	<0.0001		359.9	141.6	inland	549.7	<0.0001	55	1.3	0.6	1.9	92.4
Barrow's Goldeneye	Bucephala islandica	wetland/aquatic	wetland/aquatic	rarely/never	52.66	-80.7	S	225.45	<0.0001		157.5	26.6	inland	61.76	<0.0001	29	1.7	0.8	2.7	69.8
Hooded Merganser	Lophodytes cucullatus	wetland/aquatic	wetland/aquatic	rarely/never	38.76	-93.4	S	11.07	0.00200		187.0	42.4	inland	111.08	<0.0001	52	5.7	4.4	6.5	97.6
Common Merganser	Mergus merganser	wetland/aquatic	wetland/aquatic	rarely/never	45.85	105.6	N	32.2	<0.0001		337.0	-37.9	to coast	18.47	0.0001	54	2.4	1.3	3.2	91.5
Red-breasted Merganser	Mergus serrator	wetland/aquatic	wetland/aquatic	rarely/never	42.38	316.9	N	607.74	<0.0001		105.1	43.6	inland	206.54	<0.0001	53	-0.09	-1	0.7	7.8
Ruddy Duck	Oxyura jamaicensis	wetland/aquatic	wetland/aquatic	rarely/never	36.35	13.5	N	4.35	0.04370		161.9	37.1	inland	166.13	<0.0001	45	0.4	-1	1.5	56.1
Chukar	Alectoris chukar	land-based	grassland	occasionally	46.75	-234.5	S	208.14	<0.0001		300.0	158.2	inland	137.4	<0.0001	11	-2.48	-9.7	2	100.0
Gray Partridge	Perdix perdix	land-based	grassland	occasionally	48.70	-0.3	S	0	0.98720		787.7	-5.1	to coast	0.05	0.8189	20	-2.33	-4.8	-0.5	91.6
Ring-necked Pheasant	Phasianus colchicus	land-based	grassland	occasionally	43.71	110.8	N	333.38	<0.0001		730.3	246.7	inland	131.23	<0.0001	46	-0.97	-2	0.3	96.3
Ruffed Grouse	Bonasa umbellus	land-based	woodland	occasionally	46.87	4.7	N	0.4	0.53320		440.4	-54.3	to coast	9.87	0.0033	35	-2.54	-3	-2.1	49.4
Spruce Grouse	Falcapennis canadensis	land-based	woodland	r																

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					Latitudinal distance moved		Lat. Direction Moved	F-value latitude slope							p-value latitude slope	Median Trend (% change per year)	95% LCI Trend	95% UCI Trend	% of hemispheric range in CBC survey area
Snowy Egret	Egretta thula	wetland/aquatic	wetland/aquatic	rarely/never	31.07	43.3	N	135.99	<0.0001	98.6	2.2	inland	0.34	0.5652	19	4	3.3	4.9	2.4
Little Blue Heron	Egretta caerulea	wetland/aquatic	wetland/aquatic	rarely/never	29.31	-24.5	S	27.84	<0.0001	42.6	-5.5	to coast	3.62	0.0648	15	0.5	0	1.1	5.5
Tricolored Heron	Egretta tricolor	wetland/aquatic	wetland/aquatic	rarely/never	30.06	-13.6	S	11.21	0.00180	81.0	-22.1	to coast	68.29	<0.0001	13	0.3	-0.4	0.9	16.1
Cattle Egret	Bubulcus ibis	wetland/aquatic	wetland/aquatic	rarely/never	29.44	33.8	N	9.4	0.00400	48.1	19.8	inland	9.12	0.0045	19	-1.48	-2.6	-0.5	28.3
Green Heron	Butorides virescens	wetland/aquatic	wetland/aquatic	rarely/never	31.79	61.9	N	43.21	<0.0001	94.0	25.0	inland	41.82	<0.0001	30	-0.51	-1	0	18.6
Black-crowned Night-Heron	Nycticorax nycticorax	wetland/aquatic	wetland/aquatic	rarely/never	33.96	-34.1	S	7.1	0.01120	156.4	29.0	inland	156.02	<0.0001	37	3	2.3	3.8	9.9
Yellow-crowned Night-Heron	Nyctanassa violacea	wetland/aquatic	wetland/aquatic	rarely/never	29.62	35.8	N	116.1	<0.0001	74.4	42.1	inland	78.8	<0.0001	11	0.4	-0.8	1.3	2.6
White Ibis	Eudocimus albus	wetland/aquatic	wetland/aquatic	rarely/never	29.38	99.8	N	632.09	<0.0001	39.1	52.6	inland	543.44	<0.0001	10	5.6	4	7.7	22.3
Glossy Ibis	Plegadis falcinellus	wetland/aquatic	wetland/aquatic	rarely/never	29.26	-68.9	S	233.39	<0.0001	25.1	-17.4	to coast	156.02	<0.0001	10	8.5	5.6	10.1	34.6
Black Vulture	Coragyps atratus	land-based	generalist	rarely/never	31.89	51.9	N	220.39	<0.0001	181.5	69.6	inland	899.14	<0.0001	25	6.7	6	7.3	8.8
Turkey Vulture	Cathartes aura	land-based	generalist	rarely/never	31.83	53.2	N	93.22	<0.0001	142.0	15.4	inland	33.13	<0.0001	42	4.9	4.4	5.3	7.8
Osprey	Pandion haliaetus	wetland/aquatic	wetland/aquatic	rarely/never	29.99	10.7	N	8.28	0.00650	68.9	30.2	inland	201.46	<0.0001	39	6.7	6.1	7.2	2.8
White-tailed Kite	Elanus leucurus	land-based	generalist	rarely/never	36.25	-0.4	S	0	0.98130	154.9	20.8	inland	12.11	0.0013	7	2.6	1.7	3.6	4.1
Bald Eagle	Haliaeetus leucocephalus	wetland/aquatic	wetland/aquatic	rarely/never	47.83	-47.1	S	21.22	<0.0001	340.4	74.2	inland	174.55	<0.0001	55	6	5.5	6.4	89.7
Northern Harrier	Circus cyaneus	land-based	grassland	rarely/never	37.15	76.8	N	51.66	<0.0001	392.0	-14.4	to coast	2.77	0.1046	55	0.1	-0.1	0.4	71.6
Sharp-shinned Hawk	Accipiter striatus	land-based	woodland	regularly	38.74	37.6	N	13.99	0.00060	323.4	57.0	inland	62.14	<0.0001	54	3	2.8	3.3	47.2
Cooper's Hawk	Accipiter cooperii	land-based	woodland	regularly	38.46	-3.0	S	0.53	0.47090	340.5	21.7	inland	83.71	<0.0001	53	3.6	3.4	3.9	76.1
Northern Goshawk	Accipiter gentilis	land-based	woodland	occasionally	45.99	71.9	N	91.92	<0.0001	524.2	8.1	inland	0.32	0.5743	49	-0.08	-0.6	0.4	54.4
Red-shouldered Hawk	Buteo lineatus	land-based	woodland	rarely/never	33.17	76.2	N	361.3	<0.0001	170.5	25.7	inland	60.31	<0.0001	40	3	2.7	3.2	82.9
Red-tailed Hawk	Buteo jamaicensis	land-based	woodland	rarely/never	37.86	82.4	N	117.81	<0.0001	380.9	60.5	inland	95.88	<0.0001	55	2.4	2.3	2.6	75.2
Ferruginous Hawk	Buteo regalis	land-based	grassland	rarely/never	36.81	62.8	N	71.53	<0.0001	487.3	31.7	inland	18.19	0.0001	18	1.9	1.1	2.6	71.0
Rough-legged Hawk	Buteo lagopus	land-based	grassland	rarely/never	42.88	178.7	N	308.62	<0.0001	575.0	102.4	inland	90.55	<0.0001	54	-0.06	-0.7	0.5	98.2
Golden Eagle	Aquila chrysaetos	land-based	grassland	rarely/never	41.33	58.3	N	218.21	<0.0001	584.8	17.4	inland	28.17	<0.0001	46	-0.2	-0.7	0.3	78.4
American Kestrel	Falco sparverius	land-based	grassland	rarely/never	36.40	54.5	N	79.79	<0.0001	345.0	105.7	inland	530.51	<0.0001	55	0.3	0.1	0.5	32.3
Merlin	Falco columbarius	land-based	woodland	occasionally	42.32	-81.5	S	139.91	<0.0001	382.6	-18.1	to coast	20.97	<0.0001	55	3.3	2.9	3.6	46.4
Gyr Falcon	Falco rusticolus	land-based	grassland	rarely/never	48.92	-80.2	S	30.88	<0.0001	488.5	121.1	inland	136.47	<0.0001	21	2.9	-0.5	4.5	43.3
Peregrine Falcon	Falco peregrinus	land-based	generalist	rarely/never	40.87	-189.6	S	373.72	<0.0001	249.0	-58.3	to coast	137.31	<0.0001	53	4.9	4.2	5.5	13.3
Prairie Falcon	Falco mexicanus	land-based	grassland	rarely/never	40.37	5.8	N	1.01	0.32070	506.7	-11.3	to coast	4.02	0.0523	25	0.9	0.4	1.4	78.6
Black Rail	Laterallus jamaicensis	wetland/aquatic	wetland/aquatic	rarely/never	34.17	64.3	N	81.56	<0.0001	227.9	24.0	inland	15.32	0.0004	6	1.6	-1.6	4.4	45.0
Clapper Rail	Rallus longirostris	wetland/aquatic	wetland/aquatic	rarely/never	32.66	27.8	N	61.19	<0.0001	128.0	14.7	inland	321.16	<0.0001	15	0.6	-1	2	22.7
King Rail	Rallus elegans	wetland/aquatic	wetland/aquatic	rarely/never	31.26	14.3	N	42.74	<0.0001	112.2	-29.7	to coast	129.62	<0.0001	13	-2.69	-4.5	-1.1	68.7
Virginia Rail	Rallus limicola	wetland/aquatic	wetland/aquatic	rarely/never	38.43	231.6	N	952.96	<0.0001	243.5	63.9	inland	162.57	<0.0001	37	3	2.1	3.7	45.8
Sora	Porzana carolina	wetland/aquatic	wetland/aquatic	rarely/never	33.69	130.7	N	106.66	<0.0001	191.1	53.7	inland	150.54	<0.0001	32	1	0.3	1.8	23.4
Common Moorhen	Gallinula chloropus	wetland/aquatic	wetland/aquatic	rarely/never	30.50	-75.7	S	28.97	<0.0001	76.8	-26.0	to coast	14.55	0.0005	20	2.4	0.1	3.4	9.8
American Coot	Fulica americana	wetland/aquatic	wetland/aquatic	rarely/never	35.52	12.4	N	0.79	0.37950	182.7	67.2	inland	313.42	<0.0001	49	-0.05	-0.9	0.8	63.6
Sandhill Crane	Grus canadensis	wetland/aquatic	wetland/aquatic	rarely/never	32.02	37.8	N	6.18	0.01740	307.0	36.3	inland	11.2	0.0018	35	4.5	2.7	6.1	68.5
Black-bellied Plover	Pluvialis squatarola	coastal	coastal	rarely/never	35.42	114.2	N	95.79	<0.0001						20	-0.22	-1.2	1.2	29.8
Snowy Plover	Charadrius alexandrinus	wetland/aquatic	wetland/aquatic	rarely/never	35.20	-66.5	S	28.89	<0.0001	160.8	16.2	inland	276.77	<0.0001	6	0.2	-1.3	1.4	34.5
Semipalmated Plover	Charadrius semipalmatus	coastal	coastal	rarely/never	31.59	90.1	N	713.86	<0.0001						18	1.7	0.2	4.5	26.0
Piping Plover	Charadrius melodus	coastal	coastal	rarely/never	32.14	1.3	N	0.05	0.83190						10	-2.03	-4	-0.4	77.5
Killdeer	Charadrius vociferus	land-based	generalist	rarely/never	33.77	-78.0	S	59.58	<0.0001	177.3	-14.3	to coast	12.48	0.0011	50	-0.14	-0.6	0.3	60.4
American Oystercatcher	Haematopus palliatus	coastal	coastal	rarely/never	33.07	0.2	N	0.01	0.93050						12	2.3	0.7	3.6	24.4
Black-necked Stilt	Himantopus mexicanus	wetland/aquatic	wetland/aquatic	rarely/never	32.66	-70.													

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Black-headed Gull	Larus ridibundus	coastal	coastal	rarely/never	44.98	33.4	N	135.54	<0.0001						12	2.9	-1.3	5.5	23.6
Bonaparte's Gull	Larus philadelphia	wetland/aquatic	wetland/aquatic	rarely/never	36.91	-238.2	S	63.13	<0.0001	179.2	185.4	inland	179.88	<0.0001	43	1.9	-0.5	4.2	62.1
Mew Gull	Larus canus	coastal	coastal	rarely/never	50.36	-96.7	S	82.71	<0.0001						8	0.5	-0.8	1.7	97.6
Ring-billed Gull	Larus delawarensis	wetland/aquatic	wetland/aquatic	rarely/never	34.02	355.8	N	174.42	<0.0001	170.0	147.4	inland	85.55	<0.0001	51	3.6	2.4	4.5	57.6
California Gull	Larus californicus	wetland/aquatic	wetland/aquatic	rarely/never	38.19	-38.7	S	31.38	<0.0001	141.2	23.8	inland	65.26	<0.0001	15	4.5	3.5	5.6	6.4
Herring Gull	Larus argentatus	wetland/aquatic	wetland/aquatic	rarely/never	43.40	23.8	N	9.48	0.00390	134.2	97.3	inland	39.32	<0.0001	50	-0.61	-1.4	0.2	58.4
"Iceland" Gull (lumped)		wetland/aquatic	wetland/aquatic	rarely/never	46.23	-0.1	S	0	0.98890	134.6	-14.2	to coast	1.45	0.2364	21	4.7	2.6	6.4	31.4
Glaucous-winged Gull	Larus glaucescens	coastal	coastal	rarely/never	52.75	-28.2	S	42.77	<0.0001						5	1.1	0	2.2	19.5
Glaucous Gull	Larus hyperboreus	wetland/aquatic	wetland/aquatic	rarely/never	47.59	-98.9	S	169.99	<0.0001	274.4	89.7	inland	568.55	<0.0001	37	0.9	-0.7	2.5	14.8
Great Black-backed Gull	Larus marinus	wetland/aquatic	wetland/aquatic	rarely/never	43.85	-23.5	S	12.61	0.00100	88.1	76.6	inland	195.11	<0.0001	26	1.9	0.9	3	79.8
Caspian Tern	Hydroprogne caspia	coastal	coastal	rarely/never	31.27	-9.2	S	37.3	<0.0001						9	-0.04	-1.6	1.1	12.0
Forster's Tern		wetland/aquatic	wetland/aquatic	rarely/never	31.09	44.4	N	75.99	<0.0001	128.8	77.6	inland	127.53	<0.0001	22	3.6	2.5	4.8	12.9
Royal Tern	Thalasseus maximus	coastal	coastal	rarely/never	31.26	1.2	N	0.14	0.71180						10	0.9	-0.2	2.2	5.7
Common Murre	Uria aalge	coastal	coastal	rarely/never	48.02	22.4	N	0.06	0.81080						10	-6.75	-13.6	-3	1.9
Marbled Murrelet	Brachyramphus marmoratus	coastal	coastal	rarely/never	54.71	361.9	N	726.44	<0.0001						5	-0.87	-3.4	1.7	2.7
Band-tailed Pigeon	Patagioenas fasciata	land-based	woodland	regularly	38.93	69.5	N	4.18	0.04780	127.1	0.6	inland	0.73	0.3993	8	-0.39	-2.5	1.6	23.8
White-winged Dove	Zenaida asiatica	land-based	generalist	regularly	32.76	-171.2	S	315.24	<0.0001	313.6	-49.8	to coast	24.2	<0.0001	8	18.3	14.4	22	25.0
Mourning Dove	Zenaida macroura	land-based	generalist	regularly	36.68	147.3	N	180.05	<0.0001	289.8	26.7	inland	13.67	0.0007	54	2.5	2.2	2.8	73.1
Inca Dove	Columbina inca	land-based	shrubland	regularly	32.40	-46.7	S	200.87	<0.0001	290.4	-33.1	to coast	317.84	<0.0001	9	4	3	5.1	32.9
Common Ground-Dove	Columbina passerina	land-based	shrubland	occasionally	30.15	89.6	N	105.87	<0.0001	94.6	75.7	inland	68.14	<0.0001	12	-4.14	-5	-3.3	17.5
Greater Roadrunner	Geococcyx californianus	land-based	shrubland	occasionally	34.15	-3.0	S	0.38	0.54370	375.5	17.9	inland	16.68	0.0002	11	0.1	-0.5	0.6	62.2
Barn Owl	Tyto alba	land-based	grassland	rarely/never	37.34	107.1	N	205.18	<0.0001	211.9	38.9	inland	84.25	<0.0001	37	1	0.5	1.6	23.1
"Screech" Owl (lumped)		land-based	woodland	rarely/never	37.70	75.2	N	84.58	<0.0001	370.7	36.5	inland	47.3	<0.0001	50	1.3	0.9	1.7	86.5
Great Horned Owl	Bubo virginianus	land-based	woodland	rarely/never	40.38	-43.1	S	108.8	<0.0001	536.4	-86.5	to coast	609.88	<0.0001	55	0.4	0.2	0.7	37.2
Snowy Owl	Bubo scandiacus	land-based	grassland	rarely/never	49.10	-9.9	S	0.37	0.54820	675.2	114.8	inland	10.16	0.0029	33	-2.12	-3.2	-1.1	62.0
Northern Hawk Owl	Surnia ulula	land-based	woodland	rarely/never	50.75	-155.0	S	13.98	0.00060	412.8	89.8	inland	5.8	0.021	10	3.3	-0.4	6.1	18.1
Northern Pygmy-Owl	Glaucidium gnoma	land-based	woodland	rarely/never	45.87	163.6	N	23.59	<0.0001	290.6	-1.9	to coast	0.01	0.9131	14	0.1	-1.3	1.2	68.4
Burrowing Owl	Athene cunicularia	land-based	grassland	rarely/never	35.11	-80.4	S	165.96	<0.0001	224.5	49.8	inland	171.77	<0.0001	10	-0.95	-1.8	-0.2	9.8
Barred Owl	Strix varia	land-based	woodland	rarely/never	36.23	103.8	N	528.74	<0.0001	363.7	53.5	inland	452.25	<0.0001	47	1.5	1.2	1.8	77.8
Great Gray Owl	Strix nebulosa	land-based	woodland	rarely/never	49.35	-63.2	S	3.16	0.08340	546.4	-35.6	to coast	0.59	0.446	10	3	-1.5	6.2	27.2
Long-eared Owl	Asio otus	land-based	woodland	rarely/never	41.36	9.8	N	2.31	0.13680	624.5	-52.8	to coast	64.43	<0.0001	44	-0.91	-2.1	0.1	71.7
Short-eared Owl	Asio flammeus	land-based	grassland	rarely/never	43.23	-207.4	S	45.03	<0.0001	481.4	-58.1	to coast	12.78	0.001	54	-3.46	-4.5	-2.3	48.7
Northern Saw-whet Owl	Aegolius acadicus	land-based	woodland	rarely/never	44.73	168.3	N	73.34	<0.0001	342.2	-43.1	to coast	20.39	<0.0001	44	2.1	-3	3.8	87.2
Anna's Hummingbird	Calypte anna	land-based	woodland	regularly	37.25	2.2	N	0.24	0.62460	143.6	20.9	inland	269.09	<0.0001	10	3	2.4	3.6	83.7
Belted Kingfisher	Megasceryle alcyon	wetland/aquatic	wetland/aquatic	rarely/never	36.90	98.2	N	119.11	<0.0001	263.5	31.8	inland	103.14	<0.0001	53	0.8	0.6	0.9	70.6
Lewis's Woodpecker	Melanerpes lewis	land-based	woodland	rarely/never	38.69	-230.8	S	183.89	<0.0001	455.4	41.2	inland	2.82	0.1013	12	-3.17	-5.1	-1.7	92.9
Red-headed Woodpecker	Melanerpes erythrocephalus	land-based	woodland	occasionally	37.00	-170.3	S	99.35	<0.0001	455.0	-163.3	to coast	86.05	<0.0001	40	-1.25	-1.9	-0.7	99.5
Acorn Woodpecker	Melanerpes formicivorus	land-based	woodland	occasionally	37.17	-5.0	S	5.43	0.02520	155.0	-3.7	to coast	1.65	0.2073	5	0.5	0	1	29.8
Red-bellied Woodpecker	Melanerpes carolinus	land-based	woodland	regularly	36.19	59.7	N	212.95	<0.0001	367.8	18.7	inland	34.48	<0.0001	42	1.8	1.6	2	99.4
Williamson's Sapsucker	Sphyrapicus thyroideus	land-based	woodland	rarely/never	35.70	50.5	N	97.4	<0.0001	394.6	65.0	inland	24.63	<0.0001	7	0.3	-1.3	1.9	47.2
"Yellow-bellied" Sapsucker (lumped)		land-based	woodland	occasionally	34.25	50.1	N	25.64	<0.0001	217.3	13.5	inland	9.05	0.0046	50	0.2	-0.1	0.4	53.2
Ladder-backed Woodpecker	Picoides scalaris	land-based	woodland	occasionally	33.14	14.9	N	72.21	<0.0001	360.5	15.5	inland	26.55	<0.0001	8	0.3	-0.1	0.7	36.1
Downy Woodpecker	Picoides pubescens	land-based	woodland	regularly	40.86	29.3	N	51.8	<0.0001	493									

Appendix 1. List of 305 species included in the analysis, along with their habitat guild classification, latitudinal distances moved, change in average distance from the coast, and continental population trend estimates.

Species	Scientific_name	Habitat Guild (3 classes)	Habitat Guild (5 classes)	Feeder use	Mean latitude (40-yr ave from regression)				F-value latitude slope	p-value latitude slope	Mean dist. from coast (40-yr ave. from regression)	Change in mean dist. from coast (miles)	Shifted inland or to coast	F-value slope dist. to coast	p-value slope dist. to coast	# state or province strata	40-year			
					Latitudinal distance moved		Lat. Direction Moved	Median Trend (% change per year)									95% LCI Trend	95% UCI Trend	% of hemispheric range in CBC survey area	
Black-billed Magpie	<i>Pica hudsonia</i>	land-based	woodland	regularly	44.83	85.6	N	247.63	<0.0001	621.2	-25.1	to coast	62.29	<0.0001	22	0.4	0	0.7	72.8	
American Crow	<i>Corvus brachyrhynchos</i>	land-based	generalist	regularly	39.41	88.8	N	650.15	<0.0001	397.0	31.5	inland	96.92	<0.0001	54	2.4	2.1	2.7	97.4	
Fish Crow	<i>Corvus ossifragus</i>	wetland/aquatic	wetland/aquatic	rarely/never	29.66	15.1	N	6.86	0.01260	33.0	5.0	inland	5.63	0.0228	21	1.1	0	2.2	98.9	
Common Raven	<i>Corvus corax</i>	land-based	generalist	regularly	46.74	-135.7	S	347.1	<0.0001	310.1	110.8	inland	1461.88	<0.0001	38	3.9	3.5	4.4	31.5	
Horned Lark	<i>Eremophila alpestris</i>	land-based	grassland	occasionally	39.57	4.8	N	0.07	0.79410	613.5	53.8	inland	6.94	0.0121	54	-2.8	-4.9	-1.1	87.4	
Tree Swallow	<i>Tachycineta bicolor</i>	land-based	generalist	rarely/never	29.25	59.1	N	63.94	<0.0001	30.0	23.0	inland	61.1	<0.0001	22	0.6	-1.6	2.8	14.6	
Carolina Chickadee	<i>Poecile carolinensis</i>	land-based	woodland	regularly	35.13	-14.4	S	36.93	<0.0001	273.7	-3.6	to coast	4.78	0.035	22	0.8	0.5	1	99.7	
Black-capped Chickadee	<i>Poecile atricapillus</i>	land-based	woodland	regularly	45.36	90.3	N	342.22	<0.0001	517.3	-9.4	to coast	1.46	0.2348	45	2.1	1.9	2.4	66.2	
Mountain Chickadee	<i>Poecile gambeli</i>	land-based	woodland	regularly	41.96	67.0	N	5.79	0.02110	574.9	28.7	inland	4.14	0.0489	15	-0.66	-1.8	0.3	95.8	
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	land-based	woodland	regularly	48.20	123.2	N	80.23	<0.0001	130.3	0.4	inland	0.03	0.8593	7	1.7	1	2.4	93.3	
Boreal Chickadee	<i>Poecile hudsonica</i>	land-based	woodland	regularly	49.77	279.4	N	1120.61	<0.0001	260.6	116.7	inland	93.29	<0.0001	21	-1.73	-3.7	-0.5	18.3	
"Plain" Titmouse (lumped)		land-based	woodland	regularly	37.11	4.3	N	2.39	0.13050	218.5	12.6	inland	5.77	0.0213	9	0	-0.6	0.5	97.8	
"Tufted" Titmouse (lumped)		land-based	woodland	regularly	36.84	27.0	N	37.28	<0.0001	334.1	-33.2	to coast	74.14	<0.0001	35	0.8	0.6	1	54.3	
Verdin	<i>Auriparus flaviceps</i>	land-based	shrubland	occasionally	34.26	12.8	N	12.68	0.00100	368.4	31.1	inland	189.49	<0.0001	5	1.4	0.5	2.4	42.3	
Bushtit	<i>Psaltiriparus minimus</i>	land-based	generalist	regularly	39.04	-30.9	S	19.55	<0.0001	203.5	11.9	inland	2.14	0.152	12	0.6	-0.3	1.6	71.3	
Red-breasted Nuthatch	<i>Sitta canadensis</i>	land-based	woodland	regularly	44.84	244.4	N	50.51	<0.0001	408.1	51.9	inland	9.73	0.0035	55	3.7	3.3	4.1	78.1	
White-breasted Nuthatch	<i>Sitta carolinensis</i>	land-based	woodland	regularly	41.83	-16.8	S	14.4	0.00050	560.2	17.0	inland	4.23	0.0467	54	1.8	1.7	2	88.1	
Pygmy Nuthatch	<i>Sitta pygmaea</i>	land-based	woodland	regularly	41.70	265.5	N	220.68	<0.0001	443.6	-64.5	to coast	51.54	<0.0001	13	0	-2.3	1.9	80.6	
Brown-headed Nuthatch	<i>Sitta pusilla</i>	land-based	woodland	regularly	33.22	23.0	N	114.04	<0.0001	134.2	2.6	inland	3.88	0.0562	14	0.7	-0.1	1.4	99.1	
Brown Creeper	<i>Certhia americana</i>	land-based	woodland	regularly	40.79	103.8	N	84.39	<0.0001	422.8	25.2	inland	14.61	0.0005	55	0.4	0.1	0.6	78.2	
Cactus Wren	<i>Campylorhynchus brunneicapillus</i>	land-based	shrubland	regularly	33.86	49.9	N	36.09	<0.0001	347.4	39.1	inland	91.32	<0.0001	5	-0.07	-1.1	0.8	42.8	
Rock Wren	<i>Salpinctes obsoletus</i>	land-based	generalist	rarely/never	35.19	10.6	N	5.01	0.03110	370.7	31.7	inland	56.96	<0.0001	13	0	-0.6	0.7	54.6	
Canyon Wren	<i>Catherpes mexicanus</i>	land-based	generalist	rarely/never	36.12	94.0	N	120.83	<0.0001	399.3	55.4	inland	127.47	<0.0001	14	0.1	-0.6	0.8	67.8	
Carolina Wren	<i>Thryothorus ludovicianus</i>	land-based	woodland	regularly	34.55	57.0	N	18.6	0.00010	220.1	34.0	inland	9.41	0.004	36	2.2	1.9	2.5	88.6	
Bewick's Wren	<i>Thryomanes bewickii</i>	land-based	shrubland	regularly	37.68	54.8	N	17.89	0.00010	259.2	28.7	inland	50.1	<0.0001	25	0	-0.3	0.4	70.0	
House Wren	<i>Troglodytes aedon</i>	land-based	woodland	occasionally	31.97	34.1	N	28.72	<0.0001	166.2	11.8	inland	5.07	0.0303	40	0.7	0.2	1.2	6.6	
Winter Wren	<i>Troglodytes troglodytes</i>	land-based	woodland	occasionally	43.65	138.8	N	41.19	<0.0001	189.1	-6.5	to coast	1.79	0.189	52	1.4	1	1.8	96.8	
Sedge Wren	<i>Cistothorus platensis</i>	wetland/aquatic	wetland/aquatic	rarely/never	31.60	5.1	N	2.06	0.15940	151.6	34.0	inland	43.29	<0.0001	19	1.8	0.8	2.8	17.2	
Marsh Wren	<i>Cistothorus palustris</i>	wetland/aquatic	wetland/aquatic	rarely/never	37.45	25.2	N	6.62	0.01410	268.1	12.7	inland	6.52	0.0148	44	1.7	1	2.3	61.5	
American Dipper	<i>Cinclus mexicanus</i>	wetland/aquatic	wetland/aquatic	rarely/never	46.96	37.2	N	11.5	0.00160	417.6	-20.3	to coast	8	0.0074	14	0.6	0.1	1	54.9	
Golden-crowned Kinglet	<i>Regulus satrapa</i>	land-based	woodland	occasionally	42.88	87.3	N	5.76	0.02140	211.8	-7.1	to coast	0.83	0.3683	55	1.2	0.7	1.6	92.7	
Ruby-crowned Kinglet	<i>Regulus calendula</i>	land-based	woodland	regularly	34.23	45.0	N	26.02	<0.0001	200.0	14.0	inland	20.59	<0.0001	50	1.1	0.8	1.4	73.5	
Blue-gray Gnatcatcher	<i>Poliopitla caerulea</i>	land-based	woodland	rarely/never	30.16	-8.7	S	2.32	0.13620	89.1	-6.9	to coast	1.47	0.2321	26	1.2	0.6	1.8	23.6	
Eastern Bluebird	<i>Sialia sialis</i>	land-based	woodland	regularly	35.13	114.5	N	137.31	<0.0001	294.8	37.1	inland	13.54	0.0007	38	3.6	3.1	4	73.6	
Western Bluebird	<i>Sialia mexicana</i>	land-based	woodland	occasionally	36.16	2.3	N	0.06	0.80980	318.5	93.4	inland	41	<0.0001	11	1.4	0.3	2.4	47.9	
Mountain Bluebird	<i>Sialia currucoides</i>	land-based	shrubland	occasionally	35.39	-71.0	S	15.8	0.00030	539.8	180.2	inland	41.81	<0.0001	17	-0.25	-6.3	3.1	68.7	
Townsend's Solitaire	<i>Myadestes townsendi</i>	land-based	woodland	occasionally	39.52	99.2	N	6.31	0.01640	603.5	42.3	inland	19.97	<0.0001	28	0.6	-0.6	1.6	86.4	
Hermit Thrush	<i>Catharus guttatus</i>	land-based	woodland	occasionally	34.61	91.4	N	35.89	<0.0001	197.8	24.7	inland	26.5	<0.0001	48	1.3	0.8	1.8	66.0	
American Robin	<i>Turdus migratorius</i>	land-based	woodland	occasionally	35.59	206.0	N	38.93	<0.0001	250.5	137.2	inland	55.42	<0.0001	55	0.5	-0.3	1.1	85.0	
Varied Thrush	<i>Ixoreus naevius</i>	land-based	woodland	regularly	47.26	229.9	N	13.86	0.00060	133.5	-4.9	to coast	3.57	0.0664	28	0.3	-1.4	1.8	92.4	
Gray Catbird	<i>Dumetella carolinensis</i>	land-based	shrubland	occasionally	30.34	21.2	N	5.5	0.02430	56.3	6.1	inland	3.43	0.0718	43	1.1	0.5	1.7	38.1	
Northern Mockingbird	<i>Mimus polyglottos</i>	land-based	shrubland	occasionally	33.37	13.5</														

Appendix 1. List of 305 species included in the analysis, along with their habitat guild classification, latitudinal distances moved, change in average distance from the coast, and continental population trend estimates.

Species	Scientific_name	Habitat Guild (3 classes)	Habitat Guild (5 classes)	Feeder use	Mean latitude (40-yr ave from regression)					Mean dist. from coast (40-yr ave. from regression)	Change in mean dist. from coast (miles)	Shifted inland or to coast	F-value slope dist. to coast	p-value slope dist. to coast	# state or province strata	40-year			
					Latitudinal distance moved	Lat. Direction Moved	F-value latitude slope	p-value latitude slope	Median Trend (% change per year)							95% LCI Trend	95% UCI Trend	% of hemispheric range in CBC survey area	
Bachman's Sparrow	<i>Aimophila aestivalis</i>	land-based	woodland	rarely/never	31.02	15.6	N	18.49	0.00010	106.2	-25.9	to coast	34.85	<0.0001	7	-7.45	-10.5	-5	99.6
Rufous-crowned Sparrow	<i>Aimophila ruficeps</i>	land-based	shrubland	occasionally	33.93	63.8	N	64.03	<0.0001	367.2	-48.6	to coast	17.96	0.0001	7	-1.73	-3	-0.7	54.1
American Tree Sparrow	<i>Spizella arborea</i>	land-based	shrubland	regularly	41.03	54.3	N	45.61	<0.0001	659.5	10.1	inland	1.16	0.2887	53	-2.16	-21.1	-1.6	99.6
Chipping Sparrow	<i>Spizella passerina</i>	land-based	woodland	occasionally	32.72	11.4	N	7.79	0.00820	189.0	-18.7	to coast	12.73	0.001	51	4.3	3.4	5.1	33.9
Field Sparrow	<i>Spizella pusilla</i>	land-based	shrubland	occasionally	34.65	11.7	N	3.89	0.05600	253.0	64.8	inland	889.3	<0.0001	40	-3.16	-3.6	-2.7	94.6
Vesper Sparrow	<i>Pooecetes gramineus</i>	land-based	grassland	rarely/never	32.55	-8.3	S	1.48	0.23140	281.8	25.5	inland	15.08	0.0004	40	-2.03	-3	-1	57.9
Lark Sparrow	<i>Chondestes grammacus</i>	land-based	generalist	occasionally	35.78	44.5	N	14.78	0.00040	187.9	3.9	inland	0.29	0.5908	26	-2.69	-3.7	-1.5	35.4
Sage Sparrow	<i>Amphispiza belli</i>	land-based	shrubland	rarely/never	37.64	-115.6	S	565.18	<0.0001	384.5	45.5	inland	73.56	<0.0001	7	-5.08	-7.5	-2.9	74.9
Savannah Sparrow	<i>Passerculus sandwichensis</i>	land-based	grassland	occasionally	33.05	-32.1	S	30.64	<0.0001	183.2	27.9	inland	68.5	<0.0001	47	1.3	0.6	1.8	58.7
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	land-based	grassland	rarely/never	31.62	23.0	N	10.27	0.00270	217.2	48.4	inland	36.21	<0.0001	21	-0.65	-1.9	0.6	37.0
Henslow's Sparrow	<i>Ammodramus henslowii</i>	land-based	grassland	rarely/never	31.67	-2.2	S	0.12	0.73210	151.5	28.6	inland	13.22	0.0008	9	0.8	-1.6	3.6	99.3
Le Conte's Sparrow	<i>Ammodramus leconteii</i>	wetland/aquatic	wetland/aquatic	rarely/never	32.78	-25.6	S	9.83	0.00330	267.9	5.4	inland	1.08	0.305	19	0.5	-0.8	1.6	99.6
"Sharp-tailed" Sparrow (lumped)		coastal	coastal	rarely/never	32.71	37.3	N	168.29	<0.0001						15	-1.43	-3.9	0.9	96.1
Seaside Sparrow	<i>Ammodramus maritimus</i>	coastal	coastal	rarely/never	31.95	43.0	N	154.75	<0.0001						14	-2.77	-5.5	0.6	95.1
Fox Sparrow	<i>Passerella iliaca</i>	land-based	shrubland	regularly	39.13	286.8	N	210.53	<0.0001	227.2	19.5	inland	8.97	0.0048	52	-0.37	-0.9	0.1	94.1
Song Sparrow	<i>Melospiza melodia</i>	land-based	shrubland	regularly	38.32	74.5	N	83.25	<0.0001	281.8	-10.9	to coast	5.55	0.0237	54	0.4	0.1	0.6	91.7
Lincoln's Sparrow	<i>Melospiza lincolni</i>	land-based	shrubland	occasionally	33.69	165.3	N	279.81	<0.0001	265.5	-23.0	to coast	12.77	0.001	42	-0.08	-0.7	0.6	48.5
Swamp Sparrow	<i>Melospiza georgiana</i>	wetland/aquatic	wetland/aquatic	occasionally	33.44	-1.7	S	0.1	0.75910	188.6	1.7	inland	0.15	0.7053	48	-0.03	-0.6	0.5	77.1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	land-based	woodland	regularly	34.89	109.1	N	127.54	<0.0001	200.7	59.8	inland	253.64	<0.0001	55	-0.17	-0.6	0.2	95.3
Harris's Sparrow	<i>Zonotrichia querula</i>	land-based	shrubland	regularly	38.17	-49.7	S	242.3	<0.0001	608.3	-55.5	to coast	386.98	<0.0001	39	-2.13	-3.1	-1.2	99.7
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	land-based	shrubland	regularly	36.33	21.7	N	12.46	0.00110	316.2	12.4	inland	2.55	0.1188	55	-0.48	-1.1	0.1	81.7
Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	land-based	shrubland	regularly	38.92	155.0	N	158.2	<0.0001	131.7	3.9	inland	29.69	<0.0001	12	1.1	0.4	1.8	93.3
Dark-eyed Junco	<i>Junco hyemalis</i>	land-based	woodland	regularly	39.43	116.1	N	274.62	<0.0001	440.3	14.6	inland	7.06	0.0115	55	-0.12	-0.4	0.2	91.3
Lapland Longspur	<i>*Calcarius lapponicus</i>	land-based	grassland	rarely/never	39.54	36.6	N	1.08	0.30510	678.2	15.0	inland	0.38	0.5431	50	0.4	-3.3	3.9	97.8
Snow Bunting	<i>*Plectrophenax nivalis</i>	land-based	grassland	occasionally	48.54	-35.5	S	5.46	0.02490	605.6	-61.3	to coast	10.83	0.0022	43	-0.93	-3.2	0.9	71.4
Northern Cardinal	<i>Cardinalis cardinalis</i>	land-based	shrubland	regularly	36.60	58.9	N	58.82	<0.0001	369.6	46.2	inland	77.95	<0.0001	44	-0.08	-0.3	0.1	77.6
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	land-based	generalist	regularly	34.06	99.3	N	276.39	<0.0001	274.6	118.5	inland	369.71	<0.0001	55	0.1	-0.7	1.1	82.4
Eastern Meadowlark	<i>Sturnella magna</i>	land-based	grassland	occasionally	33.85	-34.1	S	65.22	<0.0001	236.4	13.0	inland	14.7	0.0005	37	-3.27	-3.7	-2.8	58.0
Western Meadowlark	<i>Sturnella neglecta</i>	land-based	grassland	occasionally	37.51	-25.4	S	22.65	<0.0001	259.5	-42.0	to coast	35.4	<0.0001	30	-2.78	-3.4	-2.2	75.3
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	wetland/aquatic	wetland/aquatic	rarely/never	35.45	-108.1	S	22.07	<0.0001	407.3	-2.6	to coast	0.17	0.6812	36	-0.55	-5.5	2.6	25.0
Rusty Blackbird	<i>Euphagus carolinus</i>	wetland/aquatic	wetland/aquatic	rarely/never	35.06	100.9	N	181.56	<0.0001	294.2	123.6	inland	237.9	<0.0001	52	-5.46	-7.1	-4.1	99.6
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	land-based	generalist	regularly	37.69	13.6	N	53.32	<0.0001	177.8	-14.7	to coast	174.58	<0.0001	46	-2.46	-3.2	-1.7	75.0
Common Grackle	<i>Quiscalus quiscula</i>	land-based	generalist	regularly	33.12	-46.3	S	77.35	<0.0001	183.1	-42.9	to coast	78.58	<0.0001	48	-4.24	-6.1	-2.6	99.5
Brown-headed Cowbird	<i>Molothrus ater</i>	land-based	generalist	regularly	32.86	-18.5	S	11.64	0.00150	227.7	-2.3	to coast	1.35	0.2527	51	-3.05	-4.2	-2	68.4
"Northern" Oriole (lumped)		land-based	woodland	occasionally	34.42	21.1	N	7.31	0.01020	108.9	-8.0	to coast	1.73	0.1963	33	-2.72	-3.9	-1.7	5.3
Pine Grosbeak	<i>Pinicola enucleator</i>	land-based	woodland	regularly	49.79	148.3	N	7.65	0.00870	461.8	-127.2	to coast	6.87	0.0125	38	-0.78	-4.1	2.1	45.3
Purple Finch	<i>Carpodacus purpureus</i>	land-based	woodland	regularly	40.11	433.0	N	89.13	<0.0001	389.7	229.7	inland	121.43	<0.0001	53	-2.27	-3.2	-1.5	98.8
Cassin's Finch	<i>Carpodacus cassinii</i>	land-based	woodland	regularly	40.65	12.5	N	0.06	0.81120	523.6	-42.9	to coast	2.62	0.1137	13	-1.4	-4.2	1.7	77.9
House Finch	<i>Carpodacus mexicanus</i>	land-based	generalist	regularly	39.54	269.8	N	2388.68	<0.0001	290.3	172.5	inland	129.94	<0.0001	54	2.6	2	3.1	78.8
Red Crossbill	<i>Loxia curvirostra</i>	land-based	woodland	occasionally	48.94	38.8	N	0.22	0.63890	317.6	1.2	inland	0	0.9845	48	-1.51	-5.2	1.5	74.9
White-winged Crossbill	<i>Loxia leucoptera</i>	land-based	woodland	occasionally	51.37	27.2	N	0.09	0.76980	328.2	-50.7	to coast	0.27	0.6074	34	-0.32	-5.1	3.8	50.7
Common Redpoll	<i>Carduelis flammea</i>	land-based	shrubland	regularly	49.37	19.1	N	0.1	0.75160	611.7	-257.9	to coast	16.18	0.0003	41	0.6	-3.3	3.9	51.3
Hoary Redpoll	<i>Carduelis hornemanni</i>	land-based	shrubland	regularly	50.82	-26.9	S	0.78	0.38300	657.7	-119.4	to coast	3.47	0.0703	18	-4.97	-9.1	-1.5	43.8
Pine Siskin	<i>Carduelis pinus</i>	land-based	woodland	regularly	46.56	288.2	N	11.19	0.00190	346.0	26.5	inland	0.27	0.6052	55	1	-0.9	2.6	78.7
Lesser Goldfinch	<i>Carduelis psaltria</i>	land-based	generalist	regularly	37.12	-6.3	S	0.92	0.34280	194.9	61.4	inland	53.02	<0.0001	9	1.2	-0.1	2.6	30.5
American Goldfinch	<i>Carduelis tristis</i>	land-based	generalist	regularly	38.56	219.1	N	143.14	<0.0001	425.1	94.9	inland	89.82	<0.0001	54	1.5	1.2	1.7	93.7
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	land-based	woodland	regularly	46.81	68.7	N	2.28	0.13900	351.3	-71.1	to coast	4.26	0.0459	54	-5.08	-7.2	-3.2	88.3
House Sparrow	<i>Passer domesticus</i>	land-based	generalist	regularly	42.34	77.4	N	352.52	<0.0001	630.1	16.1	inland	9.79	0.0034	54	-2.21	-2.5	-2	40.9