

## Appendix 1

**Table A1.1.** Sample sizes of the twenty-six taxa analyzed for the fixed effects of the three paired ground-level and elevated net locations (titled 8735, 9280, and 9590 based on the distance in meters upstream of the San Francisco Bay at our study site). All taxa with  $\geq 28$  captures from at least two of the paired net locations were included.

	8735		9280		9590	
	Ground- level	Elevated	Ground- level	Elevated	Ground- level	Elevated
Anna's Hummingbird	15	35	42	65	48	74
Downy Woodpecker			14	25	8	32
Western Flycatcher	80	86	144	166	137	169
Black Phoebe	12	10	13	21	26	21
Chestnut-backed Chickadee	30	33	61	165	87	171
Bushtit	23	21	38	69	55	47
Golden-crowned Kinglet			11	18	7	22
Ruby-crowned Kinglet	16	22	74	74	69	108
Bewick's Wren			53	33	37	21
Swainson's Thrush			112	43	108	67
Hermit Thrush	59	29	197	96	167	88
American Robin			15	19	18	14

House Finch	28	34	5	8	19	28
American Goldfinch	6	16	4	23	5	25
Fox Sparrow			39	19	75	17
Puget-sound White-crowned Sparrow			31	32	25	13
Golden-crowned Sparrow			84	56	30	22
Song Sparrow	35	16	150	75	252	95
Lincoln's Sparrow			14	8	9	4
California Towhee			13	23	25	24
Bullock's Oriole	17	20	7	13	24	26
Orange-crowned Warbler	25	21	25	43	21	26
Common Yellowthroat			33	21	41	25
Yellow Warbler	18	16	2	24	10	15
Audubon's Yellow-rumped Warbler	46	81	68	157	65	175
Myrtle Yellow-rumped Warbler	19	22	58	78	40	64
Wilson's Warbler	10	13	59	51	53	82

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**Table A1.2.** Summary statistics for the posterior distributions of the difference between probabilities of ground-level capture for newly banded birds and new recaptures at the Coyote Creek Field Station, CA, from 1993-2020. A positive value indicates new birds were likely captured in the ground-level nets.

<b>Taxa</b>	<b>Mean</b>	<b>SD</b>	<b>Credibility Interval</b>	
			<b>2.5%</b>	<b>97.5%</b>
Chestnut-backed Chickadee	0.083	0.100	-0.120	0.271
Bushtit	0.056	0.070	-0.081	0.188
Ruby-crowned Kinglet	0.091	0.116	-0.139	0.312
Swainson's Thrush	0.056	0.075	-0.086	0.205
Hermit Thrush	-0.021	0.043	-0.104	0.060
Fox Sparrow	-0.028	0.076	-0.180	0.122
Puget-sound White-crowned Sparrow	0.068	0.098	-0.128	0.259
Golden-crowned Sparrow	0.035	0.076	-0.116	0.188
Song Sparrow	-0.117	0.062	-0.237	0.005
Orange-crowned Warbler	-0.018	0.088	-0.191	0.151
Common Yellowthroat	0.104	0.083	-0.060	0.263
Audubon's Yellow-rumped Warbler	-0.065	0.060	-0.179	0.055
Myrtle Yellow-rumped Warbler	0.147	0.070	0.001	0.277
Wilson's Warbler	0.066	0.095	-0.126	0.244

**Table A1.3.** Sample sizes of the fourteen taxa used in the newly banded and new capture analysis. All taxa with  $\geq 28$  captures of both newly banded individuals and new recaptures were included.

Taxa	Newly Banded		New Recapture	
	Ground	Elevated	Ground	Elevated
Chestnut-backed Chickadee	43	70	58	115
Bushtit	42	39	63	73
Ruby-crowned Kinglet	56	79	62	67
Swainson's Thrush	227	97	28	15
Hermit Thrush	213	114	125	61
Fox Sparrow	39	16	56	20
Puget-sound White-crowned Sparrow	27	18	28	25
Golden-crowned Sparrow	39	25	61	46
Song Sparrow	43	29	166	67
Orange-crowned Warbler	45	55	20	23
Common Yellowthroat	40	18	43	31
Audubon's Yellow-rumped Warbler	151	335	21	63
Myrtle Yellow-rumped Warbler	97	125	14	36
Wilson's Warbler	105	120	11	17

**Table A1.4.** Summary statistics for the posterior distributions of the difference between probabilities of ground-level capture for adult (AHY) and young (HY) individuals of five taxa banded at the Coyote Creek Field Station, CA, from 1993-2020. A positive value indicates a greater probability of ground-level capture for AHY birds.

Taxa	Mean	SD	Credibility Interval	
			2.5%	97.5%
Chestnut-backed Chickadee	-0.090	0.058	-0.203	0.026
Swainson's Thrush	0.178	0.069	0.044	0.312
Hermit Thrush	0.041	0.044	-0.043	0.126
Golden-crowned Sparrow	0.072	0.090	-0.103	0.246
Song Sparrow	0.039	0.059	-0.073	0.155

**Table A1.5.** Sample sizes of the five taxa used in the age-based analysis. All taxa with  $\geq 28$  captures of both adults (AHY) and young (HY) were included.

Taxa	HY		AHY	
	Ground	Elevated	Ground	Elevated
Chestnut-backed Chickadee	44	64	9	27
Swainson's Thrush	32	26	26	14
Hermit Thrush	145	79	53	31
Golden-crowned Sparrow	22	21	14	14
Song Sparrow	57	29	28	21

**Table A1.6.** Summary statistics for the posterior distributions of the difference between probabilities of ground-level capture for male and female individuals of eleven taxa banded at the Coyote Creek Field Station, CA, from 1993-2020. A negative value indicates a greater aerial height bias for males than females.

<b>Taxa</b>	<b>Mean</b>	<b>SD</b>	<b>Credibility</b>	
			<b>Interval</b>	
			<b>2.5%</b>	<b>97.5%</b>
Anna's Hummingbird	-0.204	0.082	-0.359	-0.037
Chestnut-backed Chickadee	-0.160	0.098	-0.247	0.033
Bushtit	-0.095	0.073	-0.240	0.050
Ruby-crowned Kinglet	0.058	0.062	-0.065	0.180
American Goldfinch	0.043	0.088	-0.138	0.216
Song Sparrow	0.015	0.068	-0.116	0.149
Bullock's Oriole	0.001	0.115	-0.227	0.225
Common Yellowthroat	-0.170	0.096	-0.360	0.019
Audubon's Yellow-rumped Warbler	-0.052	0.048	-0.145	0.040
Myrtle Yellow-rumped Warbler	-0.115	0.079	-0.272	0.038
Wilson's Warbler	-0.091	0.072	-0.231	0.051

**Table A1.7.** Sample sizes of the eleven taxa used in sex-based analysis. All taxa with  $\geq 28$  captures of individuals of known sex were included.

<b>Taxa</b>	<b>Female</b>		<b>Male</b>	
	<b>Ground</b>	<b>Elevated</b>	<b>Ground</b>	<b>Elevated</b>
Anna's Hummingbird	29	35	14	44
Chestnut-backed Chickadee	18	23	12	32
Bushtit	48	36	46	51
Ruby-crowned Kinglet	60	84	51	57
American Goldfinch	7	36	7	27
Song Sparrow	57	28	69	32
Bullock's Oriole	14	20	15	21
Common Yellowthroat	28	8	39	30
Audubon's Yellow-rumped Warbler	43	90	74	197
Myrtle Yellow-rumped Warbler	25	31	37	75
Wilson's Warbler	35	34	63	88

**Table A1.8.** Summary statistics for the posterior distributions of the difference between probabilities of aerial capture between seasons for taxa banded at the Coyote Creek Field Station, CA, from 1993-2020. A positive value indicates a greater aerial height bias in the first-listed season compared to the second-listed season. Significant differences are bolded for ease of reading as well.

Taxa	95 % Credibility Intervals for the Difference between Seasons					
	Winter – Spring	Winter – Summer	Winter – Fall	Spring – Summer	Spring – Fall	Summer – Fall
Anna’s			<b>0.047, 0.435</b>			
Hummingbird						
Western Flycatcher				-0.220, 0.087	-0.178, 0.116	-0.041, 0.112
Chestnut-backed	-0.230, 0.067	-0.242, 0.056	-0.191, 0.109	-0.164, 0.147	-0.109, 0.197	-0.106, 0.197
Chickadee						
Bushtit	-0.010, 0.297		-0.206, 0.171		-0.339, 0.012	
Ruby-crowned	<b>0.005, 0.330</b>		-0.054, 0.194			
Kinglet						



Swainson's			<b>0.058, 0.283</b>	
Thrush				
Hermit Thrush	-0.057, 0.199	-0.008, 0.199	-0.083, 0.126	
American Robin	-0.299, 0.152			
Fox Sparrow		-0.128, 0.247		
Puget-sound	-0.293, 0.164	-0.244, 0.207		
White-crowned				
Sparrow				
Golden-crowned	-0.158, 0.192	-0.165, 0.192	-0.167, 0.178	
Sparrow				
Song Sparrow		<b>0.034, 0.281</b>	-0.188, 0.074	<b>-0.367, -0.073</b>
Bullock's Oriole		-0.282, 0.109		
Orange-crowned			-0.258, 0.114	
Warbler				
Common		<b>0.037, 0.396</b>		
Yellowthroat				

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Audubon's	-0.099, 0.076	-0.153, 0.098	-0.124, 0.099
Yellow-rumped			
Warbler			
Myrtle Yellow-	-0.081, 0.166		
rumped Warbler			
Wilson's			-0.052, 0.259
Warbler			

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**Table A1.9.** Sample sizes of the eighteen taxa analyzed across seasons. All taxa and season combinations with  $\geq 28$  captures were included.

Taxa	Winter		Spring		Summer		Fall	
	Ground	Elevated	Ground	Elevated	Ground	Elevated	Ground	Elevated
Anna's Hummingbird	18	20					9	32
Western Flycatcher			20	28	125	130	208	250
Chestnut-backed Chickadee	19	45	29	47	30	47	24	47
Bushtit	36	32	33	54			22	18
Ruby-crowned Kinglet	58	57	14	28			48	62
Swainson's Thrush			185	63			55	40
Hermit Thrush	65	23	71	36			202	116
American Robin	17	18	20	15				
Fox Sparrow	22	7					52	25
Puget-sound White-crowned Sparrow	18	16	17	11			21	17
Golden-crowned Sparrow	31	21	33	24			36	26

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Song Sparrow			101	39	41	20	42	11
Bullock's Oriole			18	28	24	25		
Orange-crowned Warbler			37	53			18	19
Common Yellowthroat			52	21	20	21		
Audubon's Yellow-rumped Warbler	41	101	107	245			24	53
Myrtle Yellow-rumped Warbler	37	50	66	106				
Wilson's Warbler			92	103			16	29

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