

## Appendix 1.

Supplementary Table 1: Species, common name, state collected, and totals of specimens used for the study.

SPECIES	COMMON NAME	AL	CA	FL	GA	LA	MS	NM	NC	TX	SPECIES TOTAL
<i>Corvus brachyrhynchos</i>	American Crow			1							1
<i>Spinus tristis</i>	American Goldfinch			9	2						11
<i>Setophaga ruticilla</i>	American Redstart			17			4				21
<i>Turdus migratorius</i>	American Robin			15	1	2		1			19
<i>Peucaea aestivalis</i>	Bachman's Sparrow			1							1
<i>Icterus galbula</i>	Baltimore Oriole			3							3
<i>Hirundo rustica</i>	Barn Swallow			1							1
<i>Setophaga castanea</i>	Bay-breasted Warbler			1							1
<i>Mniotilta varia</i>	Black-and-white Warbler			10			2				12
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				1						1
<i>Setophaga fusca</i>	Blackburnian Warbler			3							3
<i>Setophaga striata</i>	Blackpoll Warbler			2							2
<i>Setophaga caerulescens</i>	Black-throated Blue Warbler			13	1						14
<i>Setophaga virens</i>	Black-throated Green Warbler			2			1			2	5
<i>Passerina caerulea</i>	Blue Grosbeak			2							2
<i>Cyanocitta cristata</i>	Blue Jay			2							2
<i>Poliophtila caerulea</i>	Blue-gray Gnatcatcher			1							1
<i>Vireo solitarius</i>	Blue-headed Vireo			3							3
<i>Quiscalus major</i>	Boat-tailed Grackle			2							2
<i>Spizella breweri</i>	Brewer's Sparrow							1			1
<i>Certhia americana</i>	Brown Creeper						1				1
<i>Toxostoma rufum</i>	Brown Thrasher			1		1	1			2	5
<i>Molothrus ater</i>	Brown-headed Cowbird						3				3
<i>Cardellina canadensis</i>	Canada Warbler			1			1		2		4
<i>Setophaga tigrina</i>	Cape May Warbler			4	1						5
<i>Poecile carolinensis</i>	Carolina Chickadee			1							1
<i>Thryothorus ludovicianus</i>	Carolina Wren			1							1
<i>Petrochelidon fulva</i>	Cave Swallow			1							1
<i>Bombicilla cedrorum</i>	Cedar Waxwing		2	47	2	63	5				119
<i>Setophaga pensylvanica</i>	Chestnut-sided Warbler			1							1

<i>Chaetura pelagica</i>	Chimney Swift	3					<b>3</b>
<i>Spizella passerina</i>	Chipping Sparrow	1					<b>1</b>
<i>Antrostomus carolinensis</i>	Chuck-will's-widow	1					<b>1</b>
<i>Quiscalus quiscula</i>	Common Grackle	2					<b>2</b>
<i>Columbina passerina</i>	Common Ground Dove	2					<b>2</b>
<i>Chordeiles minor</i>	Common Nighthawk	1					<b>1</b>
<i>Geothlypis trichas</i>	Common Yellowthroat	21	27	2		39	<b>89</b>
<i>Oporornis agilis</i>	Connecticut Warbler	2					<b>2</b>
<i>Junco hyemalis</i>	Dark-eyed Junco					1	<b>1</b>
<i>Dryobates pubescens</i>	Downy Woodpecker	5					<b>5</b>
<i>Sialia sialis</i>	Eastern Bluebird	3					<b>3</b>
<i>Sayornis phoebe</i>	Eastern Phoebe	1					<b>1</b>
<i>Pipilo erythrophthalmus</i>	Eastern Towhee	1					<b>1</b>
<i>Streptopelia decaocto</i>	Eurasian Collared-Dove	1					<b>1</b>
<i>Sturnus vulgaris</i>	European Starling	4					<b>4</b>
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	2	3				<b>5</b>
<i>Corvus ossifragus</i>	Fish Crow	1					<b>1</b>
<i>Passerella iliaca</i>	Fox Sparrow		3				<b>3</b>
<i>Regulus satrapa</i>	Golden-crowned Kinglet			7			<b>7</b>
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	2					<b>2</b>
<i>Dumetella carolinensis</i>	Gray Catbird	12	1	15	4	1	<b>33</b>
<i>Tyrannus dominicensis</i>	Gray Kingbird	1					<b>1</b>
<i>Catharus minimus</i>	Gray-cheeked Thrush	6			6		<b>12</b>
<i>Myiarchus crinitus</i>	Great Crested Flycatcher	4					<b>4</b>
<i>Catharus guttatus</i>	Hermit Thrush	4	3		9		<b>16</b>
<i>Setophaga citrina</i>	Hooded Warbler	5	2		2		<b>9</b>
<i>Haemorphous mexicanus</i>	House Finch	2					<b>2</b>
<i>Passerina cyanea</i>	Indigo Bunting	13	1	57		8	<b>79</b>
<i>Geothlypis formosa</i>	Kentucky Warbler	4			7		<b>11</b>
<i>Lanius ludovicianus</i>	Loggerhead Shrike	1					<b>1</b>
<i>Parkesia motacilla</i>	Louisiana Waterthrush	2			3		<b>5</b>
<i>Geothlypis tolmiei</i>	MacGillvray's Warbler	1					<b>1</b>
<i>Setophaga magnolia</i>	Magnolia Warbler	3		1	4	9	<b>17</b>
<i>Cistothorus palustris</i>	Marsh Wren	2					<b>2</b>
<i>Zenaida macroura</i>	Mourning Dove	11		4	1	1	<b>17</b>

<i>Cardinalis cardinalis</i>	Northern Cardinal	15	1	140	8		1	<b>165</b>
<i>Colaptes auratus</i>	Northern Flicker	3						<b>3</b>
<i>Mimus polyglottos</i>	Northern Mockingbird	1		3	2		1	<b>7</b>
<i>Setophaga americana</i>	Northern Parula	7			2			<b>9</b>
<i>Parkesia noveboracensis</i>	Northern Waterthrush	5			3			<b>8</b>
<i>Icterus spurius</i>	Orchard Oriole	1						<b>1</b>
<i>Seiurus aurocapilla</i>	Ovenbird	1		28	6	4	8	<b>47</b>
<i>Passerina ciris</i>	Painted Bunting	7				1		<b>8</b>
<i>Setophaga palmarum</i>	Palm Warbler	10						<b>10</b>
<i>Dryocopus pileatus</i>	Pileated Woodpecker	5						<b>5</b>
<i>Spinus pinus</i>	Pine Siskin	2	1					<b>3</b>
<i>Setophaga pinus</i>	Pine Warbler	1						<b>1</b>
<i>Setophaga discolor</i>	Prairie Warbler	1						<b>1</b>
<i>Protonotaria citrea</i>	Prothonotary Warbler	10		15	12		1	<b>38</b>
<i>Haemorphous purpureus</i>	Purple Finch	25	7					<b>32</b>
<i>Melanerpes carolinus</i>	Red-bellied Woodpecker	6						<b>6</b>
<i>Vireo olivaceus</i>	Red-eyed Vireo	13	1	1	2			<b>17</b>
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker		1					<b>1</b>
<i>Agelaius phoeniceus</i>	Red-winged Blackbird	4						<b>4</b>
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak	8	1					<b>9</b>
<i>Corthylio calendula</i>	Ruby-crowned Kinglet				2			<b>2</b>
<i>Archilochus colubris</i>	Ruby-throated Hummingbird	7	2					<b>9</b>
<i>Selasphorus rufus</i>	Rufous Hummingbird	1						<b>1</b>
<i>Passerculus sandwichensis</i>	Savannah Sparrow	1						<b>1</b>
<i>Piranga olivacea</i>	Scarlet Tanager	2	2					<b>4</b>
<i>Icterus pectoralis</i>	Spot-breasted Oriole	2						<b>2</b>
<i>Piranga rubra</i>	Summer Tanager	8						<b>8</b>
<i>Catharus ustulatus</i>	Swainson's Thrush	15	1		8			<b>24</b>
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	5						<b>5</b>
<i>Melospiza georgiana</i>	Swamp Sparrow	3						<b>3</b>
<i>Leiostylypis peregrina</i>	Tennessee Warbler	1	2		1			<b>4</b>
<i>Tachycineta bicolor</i>	Tree Swallow	1						<b>1</b>
<i>Baeolophus bicolor</i>	Tufted Titmouse	1			1			<b>2</b>
<i>Catharus fuscescens</i>	Veery	13			3			<b>16</b>
<i>Vireo griseus</i>	White-eyed Vireo	2		2	1			<b>5</b>
<i>Zonotrichia albicollis</i>	White-throated Sparrow	1						<b>1</b>

<i>Hylocichla mustelina</i>	Wood Thrush			10		15		1		<b>26</b>	
<i>Helmitheros vermivorum</i>	Worm-eating Warbler			2		3				<b>5</b>	
<i>Setophaga petechia</i>	Yellow Warbler			2		1				<b>3</b>	
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker			20	1					<b>21</b>	
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo			17	1	7				<b>25</b>	
<i>Icteria virens</i>	Yellow-breasted Chat					1				<b>1</b>	
<i>Setophaga coronata</i>	Yellow-rumped Warbler	1		10		9	3			<b>23</b>	
<i>Vireo flavifrons</i>	Yellow-throated Vireo			3		1				<b>4</b>	
<i>Setophaga dominica</i>	Yellow-throated Warbler			1						<b>1</b>	
	<b>State Totals</b>	<b>2</b>	<b>3</b>	<b>548</b>	<b>42</b>	<b>347</b>	<b>143</b>	<b>2</b>	<b>4</b>	<b>73</b>	<b>1164</b>

Supplementary Table 2: Data used for the aging criteria analyses listing species, totals, and the number of agreements versus disagreements. \*Note that the denominator is the total age categories (ossification, bursa, and gonads) available for those records since not all records had all three available. The numerator is the number of characters which agreed.

<b>SPECIES</b>	<b>TOTAL</b>	<b>3/3</b>	<b>2/3</b>	<b>2/2</b>	<b>1/2</b>
American Goldfinch	5	2	0	3	0
American Redstart	9	2	1	5	1
American Robin	3	2	0	1	0
Baltimore Oriole	1	0	0	1	0
Barn Swallow	1	1	0	0	0
Bay-Breasted Warbler	1	0	0	1	0
Black-and-white Warbler	4	2	0	1	1
Blackburnian Warbler	2	1	0	1	0
Black-throated Blue Warbler	6	0	0	6	0
Black-throated Green Warbler	1	0	0	1	0
Blue Jay	2	0	0	2	0
Blue-headed Vireo	1	0	0	1	0
Boat-tailed Grackle	1	0	0	1	0
Brewer's Sparrow	1	1	0	0	0
Brown Thrasher	4	2	0	2	0
Brown-headed Cowbird	1	0	0	1	0
Canada Warbler	2	1	0	1	0
Cape May Warbler	2	0	0	1	1
Carolina Wren	1	0	0	1	0
Cave Swallow	1	1	0	0	0
Cedar Waxwing	56	19	7	23	7
Chestnut-sided Warbler	1	0	1	0	0
Chimney Swift	1	0	1	0	0
Common Nighthawk	1	1	0	0	0
Common Yellowthroat	55	16	2	34	3
Connecticut Warbler	2	1	0	1	0
Eastern Bluebird	1	0	0	1	0
Golden-crowned Kinglet	2	0	1	1	0
Grasshopper Sparrow	1	0	0	1	0
Gray Catbird	11	3	1	6	1
Gray-cheeked Thrush	1	1	0	0	0
Great Crested Flycatcher	1	1	0	0	0
Hermit Thrush	4	0	0	4	0
Hooded Warbler	2	0	0	2	0
House Finch	1	0	0	1	0
Indigo Bunting	53	13	3	34	3

Kentucky Warbler	4	0	0	4	0
Louisiana Waterthrush	2	0	0	2	0
MacGillvray's Warbler	1	1	0	0	0
Magnolia Warbler	7	1	0	6	0
Mourning Dove	6	3	0	2	1
Northern Cardinal	121	3	7	92	19
Northern Mockingbird	2	1	1	0	0
Northern Parula	3	1	0	2	0
Northern Waterthrush	5	0	1	4	0
Ovenbird	24	1	1	19	3
Painted Bunting	2	0	0	1	1
Palm Warbler	1	0	0	0	1
Prairie Warbler	1	0	0	1	0
Prothonotary Warbler	26	7	1	18	0
Red-bellied Woodpecker	1	1	0	0	0
Red-eyed Vireo	5	1	1	3	0
Red-winged Blackbird	1	0	0	1	0
Rose-breasted Grosbeak	3	1	0	2	0
Ruby-throated Hummingbird	1	0	0	0	1
Scarlet Tanager	3	2	0	1	0
Spot-breasted Oriole	2	1	0	1	0
Summer Tanager	1	0	1	0	0
Swainson's Thrush	8	2	0	4	2
Swainson's Warbler	4	0	0	4	0
Swamp Sparrow	2	1	0	1	0
Tree Swallow	1	0	0	1	0
Tufted Titmouse	1	0	0	1	0
Veery	4	0	0	3	1
White-eyed Vireo	1	0	0	1	0
White-throated Sparrow	1	1	0	0	0
Wood Thrush	3	0	1	2	0
Yellow Warbler	2	1	0	1	0
Yellow-bellied Sapsucker	2	0	0	2	0
Yellow-billed Cuckoo	1	0	0	0	1
Yellow-rumped Warbler	7	0	0	7	0
Yellow-throated Vireo	2	0	0	2	0