

# Fall 2003 North American Migration Count in South Carolina

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The Fall 2003 North American Migration Count (NAMC) was held on September 20, 2003. In South Carolina, 31,931 individual birds of 202 species were tallied by 91 individual counters in 59 parties in 11 counties across the state. Both minimum and maximum temperatures for the day across the state were slightly above normal. The cool spots were Cherokee and Spartanburg Counties, with both reporting a low of 56° F before sunrise. The hot spots were Sumter County reporting 90° F in the mid-afternoon and Lexington County reporting 90° F in the late afternoon. There was no rain reported statewide on count day, and skies were mostly clear in most localities. Both Charleston and Chester reported early morning fog. Chester skies had cleared by sunrise, but Charleston reported clouds through noon. The only other area reporting significant clouds was Jasper County, which reported mostly cloudy skies throughout the day. Jasper and Aiken County both reported Beaufort scale 2 winds for several periods during the day, but winds were relatively calm statewide.

While the biannual NAMC summary usually compares previous count totals to the current count totals, this summary will venture into something a bit riskier – a brief look at how the Fall 2003 NAMC illustrates some general distribution trends in the state of South Carolina. The numbers of two species that have declined in Florida continue to rise, albeit haltingly and slowly, in South Carolina. Both Painted Bunting and Wood Stork, generally considered target birds for out-of-state birders visiting Florida, were reported from several counties for the Fall 2003 NAMC. The three counties of Aiken, Georgetown, and Jasper reported Painted Bunting, amassing a total of 11 individuals. Perhaps the most surprising of these three is Aiken, an inland county. Painted Buntings have colonized the state from the immediate coast inland to the Upper Coastal Plain, but it is still much easier to find them on the coast than to find them inland. Wood Storks are now rare but regular breeders in South Carolina, including a site in Aiken County. None of the counties reporting Wood Storks is a surprise. Nonetheless, there are four counties reporting Wood Storks, all of them areas where Wood Stork has become almost expected over the past decade. Two of those four counties, Jasper and Georgetown, reported more than 100 individuals each. It is a fortunate and heartening development for a species in trouble.

Because the dates for the NAMC usually fail to coincide with the peaks of migration in South Carolina, the count only occasionally logs a significant wave of migrants. In 1999, the fall count tallied a wave of thrush migration, with three contiguous counties reporting good numbers of *Catharus* thrushes detected by nocturnal listening. This fall's count tallies a wave of warbler

migration. A total of 39 Tennessee Warblers was reported statewide from four counties – Aiken, Cherokee, Greenville, and Marlboro. Though the majority of these birds were from Greenville County where habitat and elevation make the area the most likely to have the species as a migrant, the numbers are still high and add up to a small wave of migrants. Also interesting was the total of 20 Yellow Warblers reported from the state. Charleston, Georgetown, Jasper, and Spartanburg Counties all reported this species, with the majority of birds reported from Charleston and Jasper. Finding a Yellow Warbler in the Lowcountry in the fall is no mean feat. Finding multiple Yellow Warblers in the Lowcountry in the fall is almost amazing. The third warbler species showing a wave is an uncommon migrant in the state, so the numbers are unimpressive. Five counties reported six Northern Waterthrushes. Quite often the fall count tallies only one Northern Waterthrush. The five counties reporting Northern Waterthrush were Aiken, Charleston, Jasper, Marlboro, and Spartanburg, displaying the widespread dispersal of the species in migration.

Among the widespread species reported from every county were: Mourning Dove, Northern Cardinal, Northern Mockingbird, Killdeer, Red-bellied Woodpecker, and Downy Woodpecker. The most numerous of the widespread species in the fall count of 2003 was Mourning Dove, with a tally of 964 individuals reported. The second most numerous among the widespread species was Northern Cardinal, with 639 individuals reported. Northern Mockingbird and Killdeer were the third and fourth most numerous of the widespread species, with 275 individuals and 204 individuals reported respectively. Among species with high numbers of individuals but a limited distribution, Western Sandpiper, reported from the two counties of Jasper and Georgetown, totaled 4328 individuals. Second is a sp? designation, peep sp?, with 4000 individuals reported from Jasper County. Semipalmated Sandpiper, again reported from the two counties of Georgetown and Jasper, totaled 1095 individuals. For this count, there was little overlap of widespread and numerous. European Starling is the only species that is both numerous (at greater than 1000 individuals reported) and widespread (reported from 10 of 11 surveyed counties).

Among the highlights of the Fall 2003 NAMC are Purple Gallinule and American White Pelicans in Jasper County, Alder Flycatchers in Greenville County, Barn Owl in Chester County, Common Tern in Georgetown County, Canada Warbler and Orange-crowned Warbler in Spartanburg County, and Gray-cheeked Thrush in Marlboro County.

Even beyond these highlights there are two stand-outs that simply deserve separate mention. One of these stand-outs is the five Roseate Spoonbills found in Jasper County. One Roseate Spoonbill, if accessible on public lands, is worthy of a Rare Bird Alert. A count of five birds is simply mind-boggling. The second of these stand-outs is a Lark Sparrow, reported from Charleston County and documented with nice video stills. Lark Sparrow is another species worthy of a Rare Bird Alert.

56 species were “exclusives”, found only in one county. The exclusives are distributed as follows:

Table 1. Number of county exclusives.

Aiken	7
Charleston	7
Chester	1
Georgetown	7
Greenville	7
Jasper	14
Marlboro	1
Spartanburg	7
Sumter	1

### **County Summaries**

**Aiken County (AIKE):** 108 species, 3162 individuals.

Coordinator: Anne Waters  
1621 Apple Valley Drive  
Augusta, GA 30906  
706-793-2788

Participants: Haven Barnhill, Laurel Moore-Barnhill, Dorie Brennenman, Dan Connelly, Lee Dane, Carol Eldridge, Larry Eldridge, Gene Howard, Paul Koehler, Gabe Paradise, Elizabeth Peacock, Lois Stacey, Anne Waters, Calvin Zippler

As they have in every other NAMC, Aiken tallied a solid count, with a good number of exclusives. Species reported exclusively by Aiken County included American Black Duck, Eurasian Collared-Dove, Blue-headed Vireo, lingering Hermit Thrush, Nashville Warbler, Baltimore Oriole, and Rusty Blackbird. The Nashville Warbler was an excellent find.

**Charleston County (CHAR):** 111 species, 2658 individuals.

Coordinator: Perry Nugent  
2260 Dallerton Circle  
Charleston, SC 29414  
843-556-3841

Participants: Edward Conradi, Sandra Conradi, Perry Nugent

As well as the previously mentioned stand-out Lark Sparrow, Charleston County’s exclusives included Reddish Egret, Least Bittern, Sora, Marsh Wren, Savannah Sparrow, and Orchard Oriole. Other interesting birds from Charleston for this count were a number of duck species. Among the ducks were Green-winged Teal, Mottled Duck, and Ruddy Duck.

**Cherokee County (CHER):** 45 species, 428 individuals.

Coordinator: Lyle Campbell  
126 Greengate Lane

Spartanburg, SC 29307  
864-585-1228

Participants: Claude Cobb, Ken Garrett, Carolyn Hanes, Karla Lavender, Dick Lavender, Tina Pearsall, Alan Rose

Along with the previously mentioned Tennessee Warblers, Cherokee County also reported Magnolia Warbler and Chestnut-sided Warbler, a nice albeit small wave of migrant warblers for the county.

**Chester County (CHES):** 40 species, 399 individuals.

Coordinator: Gail B. Ice  
2356 Arabian  
York, SC 29445  
803-684-3242

Participants: Gail B. Ice

In keeping with a long-held tradition for Chester County migration counts, Chester County reported Barn Owl, an exclusive for the state. Chester County, along with Cherokee County, also reported Song Sparrow, most likely individuals from breeding populations in the counties.

**Georgetown County (GEOR):** 82 species, 2332 individuals.

Coordinator: Jack Peachey  
103 Walnut Circle  
Conway, SC 29526  
843-347-5810

Participants: Bill Lanaham, Ritch Lilly, Jack Peachey, Paul Rogers

Great Black-backed Gull, the previously mentioned Common Tern, Piping Plover, Willet, American Oystercatcher, Red Knot, and Seaside Sparrow were the exclusives reported from Georgetown County. While most are regulars at Huntington Beach State Park, Great Black-backed Gull, Piping Plover and Seaside Sparrow are always nice birds to find in South Carolina.

**Greenville County (GREE):** 83 species, 1314 individuals.

Coordinator: Peter L. Worthington  
716 North Almond Drive  
Simpsonville, SC 29681  
864-967-4183

Participants: Billy Fuller, Elizabeth Galloway, Len Kopka, Rosalind McClam, Eric McFalls, Bob Maxwell, Hilda Reese, Mac Sharpe, Donna Slyce, Martha Statton, Charles Webb, Judy Webb, Peter Worthington

While most of Greenville County's exclusives are summer resident breeders, including Black-throated Green Warbler, Dark-eyed Junco, and Common Raven, several of the Greenville County exclusives are excellent finds. Alder Flycatcher, another Greenville exclusive and identified by sound according to documentation submitted, is a nice catch. Another species reported exclusively by Greenville County, American Woodcock has rarely, if ever, been reported on a NAMC for South Carolina. The counts occur outside of the season that the species is most easily found. Greenville's last

two exclusives were Rose-breasted Grosbeak, always a nice migrant to find, and Red-breasted Nuthatch.

**Jasper County (JASP):** 97 species, 15,371 individuals.

Coordinator: Pat Metz  
1000 Business Center Drive, Suite 10  
Savannah Georgia 31405  
912-652-4415

Participants: Daniel Amairs, Tom Arndt, Jeremy Bucher, Steve Calver, Jack Colcolough, William Friedman, Susan Friedman, Joseph Lyons, Pat Metz, Emily Mulcahy, Ray Porter, Mary Ann Putnam, Richard Swift, Henry Swift, Jane Swift

Jasper added an exceptional number of exclusives to the tally for this count including a somewhat early Common Loon, Purple Gallinule, hard-to-find Long-billed Dowitcher, Yellow-crowned Night-Heron, Bank Swallow, the previously mentioned Roseate Spoonbill, Glossy Ibis, Common Ground-Dove, Black-necked Stilt, American Coot, migrating Black Tern, American White Pelican, Stilt Sandpiper, and American Avocet. The presence of American White Pelican on the South Carolina coast from late summer through late winter is a recent phenomenon and has become frequent enough to be almost expected in season.

**Lexington County (LEXI):** 55 species, 843 individuals.

Coordinator: Molly Bonnell  
202 Cannon Trail Road  
Lexington, SC 29072  
803-359-6280

Participants: Molly Bonnell, Doug Catoe, Barbara Darden

Lexington County reported a high number of Wood Duck, a nice-to-find Cooper's Hawk, and Northern Bobwhite. Northern Bobwhite has grown far less common than it used to be. Migrant Scarlet Tanagers were also a nice find in Lexington County.

**Marlboro County (MARL):** 77 species, 1149 individuals.

Coordinator: Robin Carter  
4165 E. Buchanan Drive  
Columbia, SC 29206  
803-788-8820

Participants: Robin Carter, Caroline Eastman

In part because of nocturnal listening, Marlboro County reported a nice sample and numbers of brown-backed thrushes including Veery, Gray-cheeked Thrush, and Swainson's Thrush. Gray-cheeked Thrush was a statewide exclusive from Marlboro County. Other nice finds in Marlboro County included the previously mentioned Northern Waterthrush, Wood Thrush found during daylight hours, and House Wren. A majority of the high numbers of Barred Owl reported by Marlboro County were also found during nocturnal listening.

**Spartanburg County (SPAR):** 91 species, 1882 individuals.

Coordinator: Lyle Campbell  
126 Greengate Lane  
Spartanburg, SC 29307  
864-585-1228

Participants: George Banks, Norma Banks, Susan Bennett, Tim Brown, Lyle Campbell, Sarah Campbell, Dan Codispoti, Glenn Englehardt, Joel Jones, Herb Kay, Edwin Marotte, Angela Miller, Margaret Miller, Jim Miller, Moss Miller, Sam Miller, Nancy Owens, Bob Powell, Sandra Powell, Doug Rayner, Leland Rayner, Laurel Sullivan, Gerald Thurmond, M. B. Ulmer, Dan Wooten, Nancy Wooten

A pair of nice-to-find warblers, Canada Warbler and a somewhat early Orange-crowned Warbler, were among the exclusives in Spartanburg County. Also exclusive to Spartanburg County were Whip-poor-will, Yellow-bellied Sapsucker, Yellow-rumped Warbler, Ruby-crowned Kinglet, and Purple Finch.

**Sumter County (SUMT):** 71 species, 2392 individuals.

Coordinator: Lloyd Moon  
6150 Brookland Drive  
Sumter, SC 29154  
803-494-3234

Participants: Lloyd Moon, Ward Moon

The tally from Sumter County included an exclusive for the state, Horned Lark, and two excellent migrant warblers, Palm Warbler and Blue-winged Warbler. Sumter County also reported Least Sandpiper, an excellent bird to find as far inland as Sumter, and Pectoral Sandpiper, a fine “sod farm” bird to report.

Table 2. North American Migration Count in South Carolina 20 September 2003

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Canada Goose	47		2	37		37		45	75	191	300	734	8
Wood Duck	16	273	2	2		19	10	33	12		1	368	9
American Black Duck	2											2	1
Mallard	22			5		9	14		24	77	27	178	7
Mottled Duck		2					66					68	2
Blue-winged Teal	12	44			19		778			10		863	5
Northern Shoveler					3		702					705	2
Green-winged Teal		2					6					8	2
Ruddy Duck		1					147					148	2
Wild Turkey	3		5			2	32			10		52	5
Northern Bobwhite	5	6						2	3			16	4
Common Loon							1					1	1
Pied-billed Grebe	1	163		1	2		23				3	193	6
American White Pelican							60					60	1
Brown Pelican		16			87							103	2
Double-crested Cormorant	1				5		62		3		1	72	5
Anhinga	7	20					26		6		2	61	5
Least Bittern		8										8	1
Great Blue Heron	6	35		2	6	5	4	2	5	18	8	91	10
Great Egret	7	74		2	10		34	1	66	1	1	196	9
Snowy Egret		63			8		85		32			188	4

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Little Blue Heron	5	57			2		11		43		1	119	6
Tricolored Heron		29			11		13					53	3
Reddish Egret		1										1	1
Cattle Egret	128	12					6		23		133	302	5
Green Heron	5	4		1	1	3	5		1	3		23	8
Black-crowned Night-Heron		4					4					8	2
Yellow-crowned Night-Heron							2					2	1
White Ibis		154					5				4	163	3
Glossy Ibis							6					6	1
Roseate Spoonbill							5					5	1
Wood Stork	4	21			105		146					276	4
Black Vulture	7	2	30	2		3	2	7	20	2		75	9
Turkey Vulture	22	12	6	12		11	27	2	36	12	61	201	10
Osprey	2	1		1	12		6			1	2	25	7
Bald Eagle	2	2			1		1				1	7	5
Northern Harrier							1				3	4	2
Sharp-shinned Hawk					1	3	1					5	3
Cooper's Hawk	1					2	1	1				5	4
Red-shouldered Hawk	21	11		3		3			6	8	5	57	7
Broad-winged Hawk		1				26				1		28	3
Red-tailed Hawk	5	1	4	7		6	4	2	5	9	3	46	10
American Kestrel	4	1	1	1				1	1	1	11	21	8
Merlin		1			1							2	2
Peregrine Falcon						3	1					4	2



	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
raptor sp?						1						1	1
Clapper Rail		22			9							31	2
King Rail	1						2					3	2
Sora		3										3	1
Purple Gallinule							1					1	1
Common Moorhen		250			8		82		5			345	4
American Coot							18					18	1
Black-bellied Plover		80			44		1					125	3
Semipalmated Plover		6			279		102					387	3
Piping Plover					7							7	1
Killdeer	39	1	2	6	4	12	46	5	2	16	71	204	11
American Oystercatcher					42							42	1
Black-necked Stilt							7					7	1
American Avocet							164					164	1
Greater Yellowlegs		12			17		50					79	3
Lesser Yellowlegs	2				17		189					208	3
Solitary Sandpiper	4									2		6	2
Willet					14							14	1
Spotted Sandpiper					4		3			3		10	3
Ruddy Turnstone		8			37							45	2
Red Knot					57							57	1
Sanderling		27			43							70	2
Semipalmated Sandpiper					53		1042					1095	2
Western Sandpiper					74		4254					4328	2

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Least Sandpiper	23	2			94		879				1	999	5
Pectoral Sandpiper		2					53				1	56	3
Stilt Sandpiper							89					89	1
peep sp?							4000					4000	1
Short-billed Dowitcher					219		1					220	2
Long-billed Dowitcher							1					1	1
dowitcher sp?							285					285	1
American Woodcock						4						4	1
Laughing Gull		62			28		110					200	3
Ring-billed Gull		18			6		1					25	3
Herring Gull		1			6							7	2
Great Black-backed Gull					1							1	1
Gull-billed Tern		1					1					2	2
Caspian Tern		1			72		116					189	3
Royal Tern		68			417		12					497	3
Sandwich Tern		18			151							169	2
Common Tern					2							2	1
Forster's Tern		30			16		36					82	3
Black Tern							21					21	1
Black Skimmer		6			129		52					187	3
Rock Pigeon	33		1			27	1	7	7	31	233	340	8
Eurasian Collared-Dove	1											1	1
Mourning Dove	234	65	22	60	9	54	103	92	17	80	228	964	11
Common Ground-Dove							6					6	1

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Yellow-billed Cuckoo	21		3			1			3	4		32	5
Barn Owl				2								2	1
Eastern Screech-Owl	4				1	5		3	2			15	5
Great Horned Owl	4	1		7	1	4						17	5
Barred Owl	9	10		5		3			10	1		38	6
Common Nighthawk	14					2		1			2	19	4
Whip-poor-will											1	1	1
Chimney Swift	126	10	2		4	154	1	5	19	421	87	829	10
Ruby-throated Hummingbird	22	5	2		1	30	2	6		33	7	108	9
Belted Kingfisher	10	8		6	1	5	2	1	2	10	5	50	10
Red-headed Woodpecker	19					8	1		1	11	5	45	6
Red-bellied Woodpecker	50	15	2	8	6	17	2	21	13	20	2	156	11
Yellow-bellied Sapsucker											1	1	1
Downy Woodpecker	21	11	2	2	1	14	2	8	11	13	2	87	11
Hairy Woodpecker	4					2		1	1			8	4
Red-cockaded Woodpecker	7	12										19	2
Northern Flicker	7					2		9	3	16	1	38	6
Pileated Woodpecker	26	21	2	1		11	1	5	8	7		82	9
Eastern Wood-Pewee	19	3	1		1	5		1	1	13	1	45	9
Acadian Flycatcher	2	1				2			4	1		10	5
Alder Flycatcher						2						2	1
empidonax sp?							1					1	1
Eastern Phoebe	2		1	2		4		3		10		22	6
Great Crested Flycatcher	5	1								1	2	9	4

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Eastern Kingbird	6	8					2			1	1	18	5
Loggerhead Shrike	4	1						3	2		6	16	5
White-eyed Vireo	32	24		1	21		7	4	16	7	3	115	9
Yellow-throated Vireo	6							1			2	9	3
Blue-headed Vireo	2											2	1
Red-eyed Vireo	10	27	2		1	5		1	3	6	4	59	9
Blue Jay	90	46	24	28	15	74		49	59	97	30	512	10
American Crow	193	10	41	40	16	62		31	56	81	47	577	10
Fish Crow	5	2							80		46	133	4
crow sp?							10				65	75	2
Common Raven						3						3	1
Horned Lark											15	15	1
Tree Swallow	11	9					1012		1		3	1036	5
Northern Rough-winged Swallow	29							4			54	87	3
Bank Swallow							3					3	1
Barn Swallow	10	10			2	3	8	2	2		14	51	8
Carolina Chickadee	101	71	5	8	5	39		26	15	38	2	310	10
Tufted Titmouse	62	9	7	8	8	32		28	33	36	16	239	10
Red-breasted Nuthatch						1						1	1
White-breasted Nuthatch	9	1			3	8				12		33	5
Brown-headed Nuthatch	44	9	2		3	2		16	2	6		84	8
Carolina Wren	115	60	11	20	10	49	6		62	26	4	363	10
House Wren	1					1		53	2	5		62	5
Marsh Wren		1										1	1

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Ruby-crowned Kinglet											3	3	1
Blue-gray Gnatcatcher	19	5			2		1	3			5	38	7
Eastern Bluebird	41	8	3	2	1	40		20	3	31	12	161	10
Veery	2					1				6		9	3
Gray-cheeked Thrush										4		4	1
Swainson's Thrush						9			16	3		28	3
Hermit Thrush	2											2	1
Wood Thrush						1			4	1		6	3
American Robin			18			46				83	30	177	4
Gray Catbird	8	1	8		1	2	9	6	2	9	1	47	10
Northern Mockingbird	61	37	7	12	17	7	8	22	48	21	35	275	11
Brown Thrasher	13	2	2		7	6	8	12	7	15	2	74	10
European Starling	139	26	120	28		155	144	52	41	75	291	1071	10
Blue-winged Warbler	1										1	2	2
Tennessee Warbler	2		6			27				4		39	4
Orange-crowned Warbler										1		1	1
Nashville Warbler	1											1	1
Northern Parula	42	3						1	3	2	6	57	6
Yellow Warbler		10			1		7				2	20	4
Chestnut-sided Warbler	2		4			7					4	17	4
Magnolia Warbler	3		2			2			1	6		14	5
Cape May Warbler						2				5		7	2
Black-throated Blue Warbler	1					1						2	2
Yellow-rumped Warbler										1		1	1

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Black-throated Green Warbler						2						2	1
Blackburnian Warbler						1				1		2	2
Yellow-throated Warbler	5	1	3							1		10	4
Pine Warbler	69	38	5	8	6			20	5	17	1	169	9
Prairie Warbler	1	1			4		3		1			10	5
Palm Warbler	3	16			6		5				1	31	5
Black-and-white Warbler	6	2			3	5				3	1	20	6
American Redstart	22	1	6		4	11	1	1	4	9	4	63	10
Prothonotary Warbler									1	1		2	2
Worm-eating Warbler	1	1				2						4	3
Ovenbird	1	1				1				2		5	4
Northern Waterthrush	1	2					1		1	1		6	5
Common Yellowthroat	7	25	3		11	1	8		11	4		70	8
Hooded Warbler						1			2	1		4	3
Canada Warbler										1		1	1
Summer Tanager	18	2			2			1	5	5	4	37	7
Scarlet Tanager						5		2	3	1		11	4
Eastern Towhee	31	4	2	10	4	12		12	15	18		108	9
Chipping Sparrow	7	3	4			4		2		6		26	6
Field Sparrow			6	3		2				7		18	4
Lark Sparrow		1										1	1
Savannah Sparrow		12										12	1
Seaside Sparrow					2							2	1
Song Sparrow			6	2						5		13	3

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	Total Birds	No. of Counties
Dark-eyed Junco						4						4	1
Northern Cardinal	171	125	6	12	17	44	10	86	65	59	44	639	11
Rose-breasted Grosbeak						5						5	1
Blue Grosbeak	11	2				1			8		1	23	5
Indigo Bunting	53	1	3			4	1		8	4	4	78	8
Painted Bunting	3				3		5					11	3
Bobolink		50				1	10		5			66	4
Red-winged Blackbird	245	82			2		33			16	5	383	6
Eastern Meadowlark	5			20					1	1	2	29	5
Rusty Blackbird	200											200	1
Common Grackle	81	64	30			70			28	23	11	307	7
Boat-tailed Grackle		19			6		31					56	3
Brown-headed Cowbird				12				90	36	6	400	544	5
Orchard Oriole		1										1	1
Baltimore Oriole	1											1	1
Purple Finch										8		8	1
House Finch	11	20	2			4		22	3	11	6	79	8
American Goldfinch	19					37		3	2	40		101	5
House Sparrow	79	2		10		12		6	7	4	2	122	8
sparrow sp?							1					1	1
Species	109	111	46	40	82	84	97	55	78	92	70	202	
Individuals	3162	2658	428	399	2332	1315	15,371	843	1149	1882	2392	31,931	

	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT
Observers	14	3	7	1	3	13	16	3	2	27	2
Parties	7	2	6	1	4	12	3	3	1	19	1
Hours foot	31	15.5	7.5	3	15.25	17.5	4	1	0	26	6.75
Hours car	15.75	10.5	8	5.75	2	8	22	13	10	7	4.5
Hours boat	0	0.5	0	0	0	0	0	0	0	4.5	0
Miles foot	14.5	8	8	4.8	9.75	25	3	1	0	12	3.5
Miles car	200	64	158	85	38.25	324	66	149	105	214	120
Miles boat	0	0.5	0	0	0	0	0	0	0	10	0
Hours feeder watch	1.75	0	9.5	0	0	8	0	1	0	19	0
#Feeder watchers	2	0	5	0	0	4	0	2	0	13	0
#Feeder stations	4	0	4	0	0	4	0	4	0	8	0
Hours stationary	0	0	0	0	0	9	0	4	0	0	0
#Parties stationary	0	0	0	0	0	1	0	3	0	0	0
#Observers stationary	0	0	0	0	0	4	0	3	0	0	0
Hours owling	1.5	1	0	1.25	0	3.25	0	1	0.5	3	0
Miles owling	6.5	1	0	1	0	0	0	5	10	1	0
#Parties owling	2	1	0	0	0	2	0	1	1	2	0
#Observers owling	2	1	0	0	0	2	0	1	2	3	0
Time start	05:45	05:00	NR	05:45	06:30	04:45	06:50	05:45	06:05	NR	06:40
Time stop	20:00	19:00	NR	13:45	17:00	19:00	18:00	18:10	17:15	NR	17:50
Temperature											
Pre-dawn	57	60	56	62	-	-	-	60	63	56	63
Dawn	64	62	-	64	70	60	70	-	63	-	63
AM	74	72	-	70	-	-	75	-	70	-	67
Noon	81	76	-	80	75	-	85	86	88	-	85



	AIKE	CHAR	CHER	CHES	GEOR	GREE	JASP	LEXI	MARL	SPAR	SUMT	
Wind	PM	88	86	86		80	82	85		86	86	90
	Sunset	77	83						90			
	Night	66										
	Pre-dawn	0	0	1	1					0	1	0
	Dawn	0	0		1		0	1		0		0
	AM	1	0					1		0		1
	Noon	1	1				0	2		1		1
	PM	2	1	1				2		0	1	1
	Sunset	2	0				1					
%Clouds	Night	0										
	Pre-dawn	0	20		0		10	0		0		0
	Dawn	0	20		0		10	75		5		0
	AM	0	20		0		10	75		0		0
	Noon	0	0		10		10	70		0		0
	PM	0	0		0		10	70		0		0
	Sunset	0	0		0		10	70				0
	Night	0	0				10					0
	Precipitation	Pre-dawn	0	fog	0	fog	0	0	0		0	0
Dawn		0	0	0	0	0	0	0		0	0	0
AM		0	0	0	0	0	0	0		0	0	0
Noon		0	0	0	0	0	0	0		0	0	0
PM		0	0	0	0	0	0	0		0	0	0
Sunset		0	0	0	0	0	0	0			0	0
Night		0	0	0	0	0	0				0	0