

## **2005 Spring Migration Counts in North Carolina**

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**Marilyn Westphal**

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The diversity of habitat in North Carolina always provides a wide variety of species on any bird count. This year the coastal count once again included large numbers of shorebirds, gulls, and terns. From the piedmont's varied habitats and numerous reservoirs Mississippi Kite, Swallow-tailed Kite, Cliff Swallow, night-herons, and a variety of waterfowl were added to the count. And from the vast forests and high elevations of the mountains came Red Crossbill, Ruffed Grouse, Alder Flycatcher, Black-capped Chickadee, Brown Creeper, and the numerous neo-tropical migrants that inhabit the forest.

Fourteen North Carolina count areas submitted data for the 2005 spring migration count: three from the mountains, ten from the piedmont, and one from the coastal plain. A total of 372 participants spent 1,141.86 party-hours in the field and counted a total of 83,586 individuals and 239 species. The counts averaged 73.20 birds per party-hour (the total number of birds divided by the total time in the field of all groups or "parties" of birders in the count). The count dates ranged from April 24 to May 14, a much wider range than last year because of the late official date for the migration count. All except one of the piedmont counts were conducted before May 8 and most were completed by May 2. The mountain and coastal counts were all conducted after May 7.

It was a particularly good year for counting birds in the piedmont. All counts that submitted reports both last year and this year showed higher numbers of total individuals this year, and most showed the same or higher numbers of species. Some counts had significant increases from last year, and many individual compilers in the piedmont remarked in their notes that it was a very good count.

Sixty-three of the 239 species (26%) were found in only one count area, and 53 species (22%) were found in every count area. Most common and widespread species included Blue Jay, Northern Cardinal, European Starling, Common Grackle, and Canada Goose. Late-migrating flocks may have bolstered Blue Jay numbers. Of the 63 species found in just one count area more than half were from Onslow County, the only count at the coast. "Exclusive" species and counts with exclusive species are listed in Table 1.

There were 10 species exclusive to the mountains, 16 exclusive to the piedmont, and 37 exclusive to the coastal plain (Table 2).

Table 1. Number of species exclusive to a count

<b>Mountains</b>	<b>Piedmont</b>	<b>Coastal Plain</b>
Transylvania County – 3	Forsyth County – 2	Onslow County – 37
Buncombe County – 3	Greensboro – 3	
Henderson County – 4	Jordan Lake – 3	
	Southern Pines - 5	
	Wake County – 2	
	Raven Rock - 1	

Table 2. Species exclusive to a region.

<b>Mountains</b>		
Ruffed Grouse	Black-capped Chickadee	
Peregrine Falcon	Connecticut Warbler	
Barn Owl	Wilson's Warbler	
Alder Flycatcher	Purple Finch	
Warbling Vireo	Red Crossbill	
<b>Piedmont</b>		
Gadwall	Anhinga	Golden-winged Warbler
Ring-necked Duck	American Bittern	Orange-crowned Warbler
Lesser Scaup	Swallow-tailed Kite	Fox Sparrow
Bufflehead	Pectoral Sandpiper	Rusty Blackbird
Common Merganser	Wilson's Snipe	
Horned Grebe	Philadelphia Vireo	
<b>Coastal</b>		
Mottled Duck	Wilson's Plover	Laughing Gull
Northern Gannet	Piping Plover	Great Black-backed Gull
Brown Pelican	American Oystercatcher	Royal Tern
Great Cormorant	Willet	Sandwich Tern
Least Bittern	Whimbrel	Common Tern
Tricolored Heron	Ruddy Turnstone	Forster's Tern
Cattle Egret	Red Knot	Least Tern
White Ibis	Sanderling	Black Skimmer
Glossy Ibis	Semipalmated Sandpiper	Eurasian Collared-Dove
Clapper Rail	White-rumped Sandpiper	Seaside Sparrow
King Rail	Dunlin	Boat-tailed Grackle
Common Moorhen	Stilt Sandpiper	
Black-bellied Plover	Wilson's Phalarope	

Although the families of most species are common throughout the state, the varied habitats and climates of North Carolina created differences in species dominating those families in each area. In fact, some of the most common species in some areas were uncommon or absent from the others. For example, the Great Crested dominated flycatchers on the coast. In the piedmont the Great Crested Flycatcher and Eastern Kingbird were equally

common, and in the mountains the Eastern Phoebe surpassed all other flycatchers. The most common nuthatch on the coast was the Brown-headed, in the piedmont the Brown-headed and White-breasted were both common, and in the mountains the White-breasted Nuthatch ruled.

On the coast close to 70% of the resident warblers consisted of five species; the Northern Parula, Yellow-throated, Pine, Prairie, and Common Yellowthroat. In the piedmont close to 70% of the warblers consisted of six species; the Northern Parula, Black-throated Blue, Pine, Black-and-white, Ovenbird, and Common Yellowthroat. In the mountains close to 70% of the warblers consisted of seven species; the Black-throated Blue, Black-throated Green, Black-and-white, Ovenbird, Common Yellowthroat, Hooded, and Canada. With sparrows, other than the Eastern Towhee, which was common throughout the state, the Chipping Sparrow overwhelmed all others in the piedmont and coastal plain, but in the mountains the Song Sparrow far outnumbered all its relatives and, in fact, was the most abundant species of any kind in that area.

The top 25 species in each area by total per party hour in order of abundance are listed in Table 3 (page 130).

Several of the most abundant species in the coastal area were shorebirds, gulls, and terns. The early dates of many counts in the piedmont resulted in large numbers of two species that winter in the area, Yellow-rumped Warbler and White-throated Sparrow. In the mountains the perching birds dominated the top 25. One of the most noticeable bird trends has been the incredible growth of the Canada Goose population in North Carolina. It is amazing to consider that just 50 years ago this species was largely only migratory through the area, and now it is one of the most common birds on spring counts throughout the state. The spread of the breeding population southward into North Carolina and other southern states has been facilitated by the increase in the number of ponds and reservoirs that provide ample suitable habitat.

Details of each count including names of compilers and participants, and count highlights follow:

## **Count Area Details**

### ***Mountains***

**Transylvania County – count date May 14, 112 species, 3491 individuals, 34 participants, 87.00 party-hours.**

Compiler: Norma Siebenheller (sieb@citcom.net)

Participants: Kathryn Allen, Jean Asher, Marvin and Michele Barg, Dorothy Bauer, Dick Blee, Pat Bohan, Gladys and Art Brintnall, John Devlin, Elizabeth Galloway, Jeanne Grimmenga, Jean and Bill Hough, Jack Hudson, Nancy Iha, Morgan and Betty Jones, Ludwig Kempe, Ruth Klock, Eleanor Kuss, Lucy McQuirt, Betty McIlwain, Carolyn and Rick Mills, Bill and Suzanne Moore, Beth and Speed Rogers, Norma and Bill Siebenheller, Shirl Thomas, Dick Thorsell, Connie Updike, and Barbara Williams

Exclusives: Peregrine Falcon, Black-capped Chickadee, Purple Finch

Notes: Enjoying a mostly sunny and warm day in the field, 34 Transylvania County Bird Club members scoured the county's various habitats and elevations on May 14 and found a total of 112 species of birds, which is right at the average we have achieved during the past few years on this count.

The most exciting find is certainly the Snowy Egret discovered by Carolyn and Rick Mills in Cedar Mountain; it was the first Transylvania record for this species and one of only a very few for the mountain region. A Red-breasted Merganser seen by Betty McIlwain and her team at the Ecusta pond was another surprise, as were the two Ospreys and the Northern Harrier found in Calvert by Elizabeth Galloway's group. A lone Pine Siskin and two Purple Finches remained from the winter and made it on to the list, as did a single White-throated Sparrow. Owls were well represented, with two Screech-Owls, one Great Horned Owl, and one Barred Owl reported.

Missing were such mainstays as Great Blue Heron, Killdeer, Kentucky Warbler, Swainson's Warbler, Grasshopper Sparrow, and Baltimore Oriole. Eurasian Collared-Dove was not found in its usual Kmart haunts either. And the Cape May and Magnolia Warblers, which had been present at Brevard College only days earlier, had departed for their more northern breeding grounds by the date of the count.

After a late-afternoon thunderstorm, the group assembled at the Siebenhellers' home for an informal picnic on the porch, followed by a roundup of the day's sightings.

Norma Siebenheller

**Buncombe County – count date May 8, 117 species, 4800 individuals, 21 participants, 65.75 party-hours.**

Compiler: Marilyn Westphal (mjwestphal@unca.edu)

Participants: Luis Campos, Kimberly Childs, Bill Fisk, Peggy Franklin, Michael Galovic, Charlotte Goedsche, Marilyn Kolton, Tim Lewis, John Lindfors, Jonathan Mays, Sean O'Connell, Tim O'Connor, Naomi Otterness, Janie Owens, Kitti Reynolds, Steve and Liz Semanckek, Tom Tribble, Lori Unruh, Lou Weber, Marilyn Westphal.

Exclusives: Ruffed Grouse, Warbling Vireo, Red Crossbill

Notes: It was an odd spring weather-wise and it created some odd results. A hard freeze in the third week of April caused many newly opening leaves to die off on trees at the middle elevations in this area of the mountains. The freeze wasn't as severe at the lower elevations, and tree leaves at the higher elevations hadn't started opening yet, so they were saved. As a result, the caterpillar population in the middle elevations crashed and there was nothing for many of the caterpillar-eating songbirds to eat there. Birds that had already arrived in the middle elevations seemed to disappear for several weeks, perhaps temporarily moving to lower or higher elevations and delaying nesting. Consequently, numbers of some species that are usually largely middle-elevation inhabitants crashed. These included Red-eyed Vireo (about half the average number), Cerulean Warbler, Worm-eating Warbler,

and Blackburnian Warbler. However, greater Blackburnian totals at higher elevations compensated for the missing birds at the middle elevations.

No Yellow-billed Cuckoos and low numbers of Acadian Flycatchers, Indigo Buntings, and Veeries probably occurred because of the early date of the count, since all of these birds are somewhat late arrivers, although the lack of tree leaves may also have been a factor for some. Higher numbers than usual of some of the high-elevation birds, especially Winter Wrens, Canada Warblers, and Dark-eyed Juncos, probably occurred because the section that includes the highest elevations was split between two parties, so one party spent much more time above 5000 feet. Blue Jay numbers were also about three times greater than usual. There were still some large late-migrating flocks coming through.

Best finds of the day were a Gray-cheeked Thrush (Peggy Franklin and John Lindfors) and a Red Crossbill (Jonathan Mays and Sean O'Connell), both firsts for this count, which started in 2001. Another first was Black Vulture, which is less common in Buncombe County than in some neighboring counties. Most-surprising miss was the never-missed-before Yellow-billed Cuckoo, but this bird usually arrives late. Another somewhat surprising miss was Purple Martin. No nesting colonies have been found in the circle, although there are certainly some just outside the circle.

Marilyn Westphal

**Henderson County – count date May 14, 106 species, 2269 individuals, 13 participants, 34.55 party-hours.**

Count coordinators: Jim and Barbara Neal (jlbjneal@bellsouth.net)

Participants: Judy Deutsch, Bill Fisk, Richard Gibbs, Andrea Hessey, Richard Leppingwell, Mike McCurdy, Marion Moore, Nora Murdock, Barbara Neal, Harvey Neal, James Neal, Ron Selvey, Marilyn Westphal

Exclusives: Barn Owl, Alder Flycatcher, Connecticut Warbler, Wilson's Warbler

Notes: The lowest number of participants, the warm windy weather, a mid-spring freeze, and the late date of the count contributed to one of the lowest bird count numbers for the county since the count began in 1998. Roads that were closed as a result of hurricane damage last September also limited access to some forest areas. Nevertheless, there were some good finds including Connecticut and Wilson's Warblers and Black-billed Cuckoo found by Ron Selvey in Jackson Park. The Alder Flycatcher, usually a high elevation bird, was surprisingly found in the French Broad River floodplain at about 2100 feet, and the bird remained there at least through the spring and early summer.

Jim Neal

Table 3. Top 25 species in each area by total per party hour in order of abundance.  
 (\* Indicates a species that is not in the top 25 of the other two areas).

<b>Mountains</b>	<b>Piedmont</b>	<b>Coast</b>
Song Sparrow*	Blue Jay	Red Knot*
American Crow	Northern Cardinal	Semipalmated Sandpiper*
American Robin	Canada Goose	Mourning Dove
Blue Jay	Common Grackle	Laughing Gull*
European Starling	European Starling	Barn Swallow
Northern Cardinal	Double-crested Cormorant	Least Tern*
Eastern Towhee	Ring-billed Gull	European Starling
Red-winged Blackbird	American Goldfinch	Brown Pelican*
Canada Goose	Carolina Wren	Common Grackle
Mourning Dove	American Crow	Sanderling*
Cedar Waxwing	American Robin	Double-crested Cormorant
Common Grackle	Chimney Swift	Dunlin*
Carolina Wren	Mourning Dove	Purple Martin*
Indigo Bunting*	Yellow-rumped Warbler*	Northern Cardinal
American Goldfinch	Tufted Titmouse	Red-winged Blackbird
Barn Swallow	Blue-gray Gnatcatcher	American Crow
Carolina Chickadee	Red-eyed Vireo	Royal Tern*
Tufted Titmouse	Chipping Sparrow*	Ring-billed Gull
Eastern Bluebird	White-throated Sparrow*	Great Crested Flycatcher*
Chimney Swift	Eastern Bluebird	Blue-gray Gnatcatcher
Northern Mockingbird	Barn Swallow	Black-bellied Plover*
Red-eyed Vireo	Carolina Chickadee	Northern Mockingbird
Hooded Warbler*	Eastern Towhee	Turkey Vulture*
Gray Catbird*	Cedar Waxwing	Boat-tailed Grackle*
Dark-eyed Junco*	Northern Mockingbird	Northern Gannet*

### ***Piedmont***

**Forsyth County – count date May 7, 128 species, 8414 individuals, 41 participants, 109.00 party hours.**

Compiler: Phil Dickinson (pdickins@triad.rr.com)

Participants: Ga Baliga, John Candanelli, Tommie Castleman, William Chance, John Clark, Lee Clark, Margaret S. Cochrane, Phil Dickinson, Cynthia Donaldson, Gardner Gidley, Margaret Gidley, Bill Gifford, Sven Halling, Billy J. Hammond, John Hammond, Susan Hammond, Myrna Harris, Bert Hollifield, Elaine Hopkins, Bill Jackson, Susan L. Jones, Ellen Kirkman, Melony Kandt, Ray Kandt, Barbara Kendrick, Joyce Mauck, Ed Mulvey, Margaret Mulvey, Ann Newsome, Janice Ovelmen, Lloyd Ramsey, Jeremy Reiskind, Susan Rupp, Liz Schmid, Tom Schmid, Lois Schneider, Fran Shelton, Jackie Shelton, Ramona Snavely, Bill Sugg, Cindy Thompson, Gray Tuttle, Robert H. Witherington

Exclusives: Philadelphia Vireo, Bank Swallow, Fox Sparrow

Notes: The weather was cooperative and pleasant. Some migrants set new early-arrival dates (Ruby-throated Hummingbird, Common Yellowthroat, Chimney Swift, Eastern Wood Pewee, et al). However, some such as Bay-breasted, Blackpoll, and Blackburnian Warblers were unusually late this spring. The number of individual migrant species was unusually low, but 128 species plus five in count period made an excellent total for Forsyth Co. spring count.

Ramona Snavely

**Greensboro – count date May 7, 136 species, 7588 individuals, 35 participants, 94.86 party-hours.**

Compiler: Herb Hendrickson (hhendrickson@triad.rr.com)

Participants: Carolyn Allen, Don Allen, Louise Brown, Dennis Burnette, Lynn Burnette, Dan Chambers, Sue Cole, Doug DeNeve, Pam DeNeve, Scott DePue, Judi Durr, Larry Gasper, Herbert Hendrickson, Phillip Kellam, Erin Kelley, Jane Lewis, Elizabeth Link, Henry Link, Clarence Mattocks, Julien McCarthy, Gregg Morris, Lynn Moseley, Jean Murdick, Lane Oldham, Judith Pate, Deirdre Poe, John Rucker, Wallace Sills, Lou Skrabec, Laurie Sorrell, Lauren Spence, Lohnathan Thielen, Emily Tyler, Ann Walter-Fromson, Melissa Whitmire

Exclusives: Gadwall, Golden-winged Warbler, Rusty Blackbird

Notes: none

**Southern Pines – count date April 24, 133 species, 6029 individuals, 35 participants.**

Compiler: Susan Campbell (susan@ncaves.com)

Participants: Kelley Anderson, Rex Badgett, Nancy Basinger, Brady Beck, Jeff Beane, Carol Bowman, Kerry Brust, Susan Campbell, J. H. Carter III, Dick Dole, Lois Dole, John Finnegan, Charlotte Gantz, John Hammond, Scott Hartley, Carol Hay, Erich Hoffman, Pat Hoffman, Stephanie Horton, Tom Howard, Alicia Jackson, David McCloy, Michael McCloy, Carolyn McDermott, Dan Peironi, Todd Pusser, Lisa Richman, Bruce Sorrie, Mary Stephenson, Lowell Strine, Susan Strine, Vaud Travis, Rosalyn Walk, Libba Watson, Cassie Willis

Exclusives: Ring-necked Duck, Lesser Scaup, Bufflehead, Wilson's Snipe, Orange-crowned Warbler

Notes: Count day, April 24, was quite cool (high temperature barely in the 50s) and ended up being birdy – despite the early date. We had a good number of lingering winter species (Ring-necked Duck, Red-breasted Nuthatch, Pine Siskin) as well as most of the expected early migrants. The real surprise was our first-ever Painted Bunting. And we had one of the highest numbers of count participants ever.

Susan Campbell

**Chapel Hill – count date May 1, 133 species, 11,757 individuals, 42 participants, 163.70 party-hours.**

Compiler: Will Cook (cwcook@duke.edu)

Participants: Sam Baron, Brian Bockhahn, Norm Budnitz, Chris Canfield, Derb Carter, Bob Chase, Will Cook, Anson Cooke, Dwayne Cooke, David Curtin, Tom Driscoll, Beth Duncan, Kate Finlayson, John Frederick, Marie Graves, Maurice Graves, Steven Graves, Perry Haaland, Ron Hodgson, Alan Johnston, Betty King, Alan Kneidel, Tom Krakauer, Lisa Merschel, David Murdock, Judy Murray, Susan Pratt, Steve Quinley, Josh Rose, Barbara Roth, Bob Rybczynski, Harriet Sato, Lois Schultz, Mike Schultz, Doug Shadwick, Jacob Socolar, Marsha Stephens, Judy Teague, Shelley Theye, Pam Timmons, Ginger Travis, Lee Van Malssen

Notes: The 2005 Chapel Hill spring count on May 1 was an extraordinary count, one of the best of the past 20 years. We happened to pick a great migration day and found 132 species, well above the 10-year average of 122, and our best count since 1986. We counted 11,755 birds, well above the average of 10,340, and the number of birds per party-hour, 72, was a little above the average 67. The observer effort was a great 163.7 party hours (average 156), though we had fewer counters than average – 42 counters in 23 parties, average 49 counters in 23 parties.

Goodies abounded. One of the best was a beautiful breeding-plumaged male Ruddy Duck at Legion Pond in Chapel Hill, found by the team of Betty King, Barbara Roth, and Judy Teague. This team found a Ruddy Duck on the count last year at a pond a couple of miles away – could it be the same bird? This is only our third Ruddy on a spring count. Betty's party had an all-around great day, finding Little Blue Heron (our first since 1982), seven Great Egrets, and the stake-out Yellow-crowned Night-Heron at the New Hope Creek Waterfowl Impoundment on NC 54. Another great find was a group of 7 Hooded Mergansers at Jordan Lake, found independently by Judy Murray (who also found them here last year) and by the team of Doug Shadwick and Bob Rybczynski – only our fourth, as well as a record high. Judy saw one male and five females, while Doug and Bob saw six adult females and one young! This is the first evidence of local breeding that I'm aware of. For the first time ever we had Nashville, Tennessee – both warblers on the same count! John Frederick found our fourth Nashville (first since 1984) and Bob Rybczynski found our fifth Tennessee (first since 1989). Though abundant in winter, Dark-eyed Junco is rare in May – Kate Finlayson and Chris Canfield found our first one since 1989. Shelley Theye found four Pine Siskins at a feeder – our first since 1994. Other rarities included three Blue-winged Teal (Norm Budnitz), American Coot (Ginger Travis), eight Lesser Yellowlegs (Brian Bockhahn), and Bay-breasted Warbler (Alan Kneidel). The warbler show was outstanding – 27 species ties our second best ever, behind the 28 we had in 1986. The count of 1389 individual warblers was also our second best (1489 in 1984). The best count week bird was a Common Raven seen by Doug Shadwick on May 2 as it flew over Dairyland Road near Mapleview Farm. Two Common Ravens



have been seen in the area for the last couple of years, but so far they've evaded being counted on count day.

We set or tied record highs for an amazing 15 species: eight Hooded Mergansers (doubling the previous high of four set last year), 179 Turkey Vultures (173 in 2002), 25 Osprey (12 in 1984), 50 Red-shouldered Hawks (43 in 2002), 158 Rock Pigeons (132 in 1982), 80 Great Crested Flycatchers (77 in 2003), 512 Carolina Wrens (495 in 2004), 45 House Wrens (38 in 1992), 43 Ruby-crowned Kinglets (27 in 1984), 112 Gray Catbirds (ties 1993), 82 Black-and-white Warblers (73 in 1983), 52 Prothonotary Warblers (47 in 2002), 11 Worm-eating Warblers (7 in 1984), 178 Ovenbirds (153 in 2003), 204 Brown-headed Cowbirds (200 in 2003). The Ruby-crowned Kinglet count was no doubt due to the early count date (May 8 is average) and the late spring.

Also remarkably high, but not record-setting: Bald Eagle, Broad-winged Hawk, Red-tailed Hawk, Ring-billed Gull, Belted Kingfisher, Yellow-throated Vireo, Fish Crow, Swainson's Thrush, Black-throated Blue Warbler, Yellow-rumped Warbler, Palm Warbler, and Swamp Sparrow.

We set just one record low – a much expected one – counting only three Eastern Meadowlarks. This is one-fourth of the next lowest count (12), which we had both last year and the year before. Also notably low: Eastern Wood-Pewee, American Robin, Kentucky Warbler (lowest since 1975), and Yellow-breasted Chat (lowest since 1975). My team covering Mason Farm missed the expected Kentucky Warbler, but found 11 Chats – a third of the total count of 33 (average 51).

Top honors this year go to the team of Shelley Theye and Lee Van Malssen, who found 80 species covering Shelley's neighborhood and adjacent areas in northern Chatham County. Incredibly, eleven other teams cracked the 70-species mark. Honors for highest individual count go to the Carolina Meadows team, organized by Maury Graves. This year, their team of six regular counters plus eight feeder-watchers counted a fantastic 929 birds (77 species), including 108 American Goldfinches.

Weather in brief: low 54, high 69; rain in early morning (mostly before count started); wind NW 5–10 mph; overcast in morning, clear in the afternoon.

Charles W. "Will" Cook

**Jordan Lake – count date May 8, 131 species, 9254 individuals, 47 participants, 137.25 party-hours.**

Compiler: Norm Budnitz (Norman.budnitz@duke.edu)

Participants: Kim Aycrigg, Patsy Bailey, Barbara Beaman, Elizabeth Bishop, Todd Bishop, Brian Bockhahn, Mary Bratton, Norm Budnitz, Harold Carter, Barbara Coffman, Patrick Coin, Anson Cooke, Marty Girolami, Perry Haaland, Willard Hartman, Walton Haywood, Russell Herman, Carl Hintz, Loren Hintz, Betty King, Chip Konrad, Jennifer Maher, Phil Manning, Melinda Meade, Kyle Mills, Micky Mills, Judy Murray, Rick Payne, Bob Perkins, Magnus Persmark, Barbara Roth, Bob Rybczynski, Peg Schultz, Doug Shadwick, Jennifer Shoemaker, Harry Shoffner, Sandra

Shoffner, Judy Teague, Shelley Theye, Pam Timmons, Ginger Travis, Andy Upshaw, Margaret Vimmerstedt, Carol Williamson, Rouse Wilson, Sue Wilson

Exclusives: Common Merganser, Horned Grebe, American Bittern

Notes: May 8, 2005, was a beautiful Mother's Day with temperatures ranging from 48°F in the morning to 85°F in the afternoon. Skies were clear with moderate winds, calm to 5–10 mph. Forty-six observers in 21 parties counted 9254 individuals (just above our 10-year average: 8685) of 131 species (also above our 10-year average: 126), during 137 hours in the field (10-year average: 148).

There were a number of unusual birds found this year, always a joy for counters and compiler alike. Here are some of the highlights: Common Merganser (Ginger Travis; Perry Haaland, Pam Timmons), American Bittern (last time on our count, 1992 – complete with digital photos by Sandra and Harry Shoffner), Yellow-crowned Night-Heron (last seen in 1978! – Rouse and Sue Wilson), Northern Harrier (Carl and Loren Hintz, Margaret Vimmerstedt), Lesser Yellowlegs (Ginger Travis; Patsy Bailey, Norm Budnitz, Carol Williamson; Anson Cooke), Least Sandpiper (Magnus Persmark), Caspian Tern (Bob Rybczynski, Doug Shadwick; Harold Carter), Tennessee Warbler (last seen in 1995 – Perry Haaland, Pam Timmons), and Bay-breasted Warbler (Rick Payne). Another good bird was a Horned Grebe in breeding plumage, reported by Tom Driscoll, Marsha Stephens, and David Curtin who were doing their Wildathon on count day.

We recorded six species in new record-high numbers: Canada Goose – 209 (previous high 161 in 2003), Common Merganser – two (one on several counts), Wild Turkey – nine (five in 2004), Great Blue Heron – 139 (104 in 2002), Blue Jay – 398 (316 in 1980) and Cliff Swallow – 367 (288 in 2003).

Norm Budnitz

**Durham – count date April 24, 122 species, 8601 individuals, 31 participants, 104.00 party-hours.**

Compiler: Mike Schultz (ross.gull@verizon.net)

Participants: Patsy Bailey, Brian Bockhahn, Norm Budnitz, Will Cook, Anson Cooke, Dwayne Cooke, Diana Davis, Suzanne Joneson, Dan Kaplan, Alan Krakauer, Tom Krakauer, Laura Lewis-Tuffin, Brian Murphy, Patrick Murphy, Judy Murray, Josh Rose, Harriet Sato, Michael Schultz, Lois Schultz, Douglas Shadwick, Deck Stapleton, Jonathan Steere, Sarah Steere, Benjamin Steere, Edith Tatum, Judy Teague, Erin Tripp, Amalie Tuffin, Carol Williamson, Bob Winstead, Jeremy Wrenn

Notes: The 2005 Durham Spring count was held April 27 and recorded 122 species and 8601 individual birds. The species total hit our ten-year average on the head, but thanks to (for this count) a very strong effort in terms of field hours and number of observers, the individual total was very near our all-time record. Looking through the numbers I do not see any new or striking trends, but bobwhites and meadowlarks continue in very low numbers due to severe loss of habitat within the circle. Probably as a result

of the above average number of field hours, 17 species hit new highs. I think the highlights of this count were three species that had not appeared on the count in over a decade: Winter Wren, Blackburnian Warbler, and, most remarkable, Tom Krakauer's Mississippi Kite, our first since 1976!

Mike Schultz

**Wake County – count date May 14, 118 species, 4456 individuals, 24 participants, 58.50 party-hours.**

Compiler: John Connors (John.Connors@ncmail.net)

Participants: John Argentati, Joe Bearden, Karen Bearden, John Connors, Diane Hardy, Vernon Janke, Mark Johns, Will Kimler, Rick LaRosa, Dave Lenat, Jim Mulholland, Brian Murphy, Andrea Nifong, Mike Pollard, Tom Quay, Kyle Rittlemeir, Mike Sanderson, Harriet Sato, Jim Seaman, Clyde Smith, Julie Angerman Stewart, Rick Van Hay, Mary Walek, Bob Winstead

Exclusives: Pectoral Sandpiper, Swallow-tailed Kite

Notes: A cool front seemed to drop some migrants in among the breeding birds, so even through the count was late in migration, the diversity of migrants was good. Most interesting species included Great Egret, Hooded Merganser (nesting again at Yates Mill Pond), a pair of Ruddy Ducks, Northern Bobwhite at two locations, Pectoral Sandpiper, Short-billed Dowitcher, Tree Swallows (late, maybe nesting), Swainson's Thrush, Loggerhead Shrike with fledglings, Blue-headed Vireo, twenty species of warbler including Louisiana Waterthrush with fledglings, Rose-breasted Grosbeak, White-throated Sparrow, Bobolink (40 near Schenk Forest), and the best bird of the day, seen by Mulholland and company, a Swallow-tailed Kite on the University Farms along Lake Wheeler Road.

John Connors

**Falls Lake – count date April 27, 99 species, 2889 individuals, 7 participants, 41.00 party-hours.**

Compiler: Brian Bockhahn (cbockhahn@earthlink.net)

Participants: Brian Bockhahn, David Lenat, Deborah Robertson, Josh Rose, Clyde Smith, Deck Stapleton, Patty Tice

Notes: none

**Kerr Lake – count date May 2, 117 species, 3671 individuals, 7 participants, 75.25 party-hours.**

Compiler: Brian Bockhahn (cbockhahn@earthlink.net)

Participants: Brian Bockhahn, Will Cook, Patricia Earnhardt, Bryce Fleming, Lori Fleming, Clyde Smith, Deck Stapleton

Notes: none

**Raven Rock State Park – count date April 30, 112 species, 3652 individuals, 11 participants, 42.00 party-hours.**

Compiler: Paul C. Hart

Participants: Jim Bateson, Paul C. Hart, Tom Howard, Bobby Lutfy, Robert Perkins, Sue Pulsipher, Karin Reese, Kevin Reese, Mitch Reese, Larry Rose, Erik Thomas

Exclusives: Anhinga

Notes: The species total of 112 was lower than the 2004 count (115). Total party-hours were well below the average of 58.45 hours over the past five years. Several of our regular counters were unable to participate. Windy conditions contributed to the lower total and explain why species such as Chuck-will's-widow, Whip-poor-will, and Eastern Screech-Owl were missed. They were not calling in either early morning or evening. Osprey was missed for the first time in several years, and no Bald Eagles were seen. A respectable total of twenty warbler species was counted, including singles of Blue-winged and Worm-eating found by Erik Thomas. Tom Howard found both Anhinga and Mississippi Kite near the Upper Little River, the second year in a row that Mississippi Kite has been tallied. A Red-breasted Nuthatch was seen at the feeders at my residence, and lingered there until mid-May.

Paul C. Hart

### **Coastal Plain**

**Onslow County – count date May 14, 150 species, 6877 individuals, 20 participants, 62.00 party-hours.**

Compiler: Jim O'Donnell (odjljl@charter.net)

Participants: Sam Bland, Rich and Susan Boyd, Jamie and Susan Cameron, Jack Fennell, John Fussell, Al Gamache, Buddy and Ann Garrett, Barbara Gould, Gilbert S. Grant, John S. Hammond, Bob Holmes, Jim and Laura O'Donnell, Mark Shields, Craig Tenbrink, Tim Trott, Andy Webb

Exclusives: 33 species, see list in coastal plain section above

Notes: We had 150 species this year. down a little from the average of 153 for the past eight years. The birds of the day were the Mottled Ducks, on Camp Lejeune and at a private pond on North Topsail Island. Photos and rare bird reports have been submitted to the NC Bird Records committee, as the species has not previously been recorded in the state. Also a surprise was a Wilson's Phalarope seen by Gil Grant at North Topsail near the New River Inlet. These plus a flushed King Rail added three new species to the count, for a total of 207 species seen on the second Saturday in May, in Onslow County, in the last 10 years.

Some of the parties directly on the coast had a morning shower, but everyone inland had just a slight breeze, as the front moved through early that morning. The temperature warmed up to 78°F and made for a pleasant day in the field. This is the first year we ever missed a Black Vulture; previously, numbers were always in single digits. Other surprise misses were Tree Swallow and Black-necked Stilt. Numbers were up for a few species, notably 202 Least Terns, 30 Common Loons and 18 Wild Turkeys, a new high, seen by three different teams.

Jim O'Donnell

Table 4. 2005 spring counts in North Carolina

	Trans 14May	Bunc 8 May	Hend 14May	Forsyt 7 May	Gmsb 7 May	So Pin 24 Apr	Chapl 1 May	Jord 8 May	Durh 24 Apr	Wake 14May	Falls 27 Apr	Kerr 2 May	Raven 30 Apr	Onslw 14May	Total	per party hour		
	NAMC	circle	NAMC	circle	circle	circle	circle	circle	circle	NAMC	circle	circle	circle	NAMC		mts	pie	coast
Canada Goose	117	93	64	321	498	201	289	209	329	414	63	37	127	73	2835	1.46	3.12	1.18
Mute Swan						2									2	0.00	0.00	0.00
Wood Duck	7	15	10	18	26	17	31	34	36	23	10	11	12	26	276	0.17	0.27	0.42
Gadwall					1										1	0.00	0.00	0.00
American Black Duck				2										5	7	0.00	0.00	0.08
Mallard	24	36	54	98	145	73	87	30	70	73	17	16	18	65	806	0.61	0.79	1.05
Mottled Duck														4	4	0.00	0.00	0.06
Blue-winged Teal						2	3								5	0.00	0.01	0.00
Ring-necked Duck						5									5	0.00	0.01	0.00
Lesser Scaup						1									1	0.00	0.00	0.00
Bufflehead						1									1	0.00	0.00	0.00
Hooded Merganser						2	8			1			1		12	0.00	0.02	0.00
Common Merganser								2							2	0.00	0.00	0.00
Red-breasted Merganser	1													2	3	0.01	0.00	0.03
Ruddy Duck						1	1			2				17	21	0.00	0.01	0.27
Duck sp.								6							6	0.00	0.01	0.00
Ruffed Grouse		5													5	0.03	0.00	0.00
Wild Turkey		14	6			2	5	9	21		13	5	6	18	99	0.11	0.08	0.29
Northern Bobwhite	1	2	1		2	7	4	8	2	2	2	1	7	37	76	0.02	0.04	0.60
Common Loon						1		1			2	3		30	37	0.00	0.01	0.48
Pied-billed Grebe					1									3	4	0.00	0.00	0.05
Horned Grebe								1							1	0.00	0.00	0.00
Northern Gannet														84	84	0.00	0.00	1.34
Brown Pelican														183	183	0.00	0.00	2.95

	Trans 14May	Bunc 8 May	Hend 14May	Forsyt 7 May	Gmsb 7 May	So Pin 24 Apr	Chapl 1 May	Jord 8 May	Durh 24 Apr	Wake 14May	Falls 27 Apr	Kerr 2 May	Raven 30 Apr	Onslw 14May	Total	per party hour mts pied coast		
Double-crested Cormorant	1				162	5	130	443	1122	17	68	242	33	159	2382	0.01	2.79	2.56
Great Cormorant														1	1	0.00	0.00	0.02
Anhinga													1		1	0.00	0.00	0.00
American Bittern								1							1	0.00	0.00	0.00
Least Bittern														3	3	0.00	0.00	0.05
Great Blue Heron		1	2	8	61	23	111	139	224	47	45	38	12	15	726	0.02	0.89	0.24
Great Egret				1			7	1	11	2				45	67	0.00	0.03	0.73
Snowy Egret	1													7	8	0.01	0.00	0.11
Little Blue Heron							1							2	3	0.00	0.00	0.03
Tricolored Heron														4	4	0.00	0.00	0.06
Cattle Egret														12	12	0.00	0.00	0.19
Green Heron	1	1	5	5	9	4	8	12	2	2		1	6	6	62	0.04	0.06	0.10
Black-crowned Night-Heron							1			1				1	3	0.00	0.00	0.02
Yellow-crowned Night-Heron				5			1	1							7	0.00	0.01	0.00
White Ibis														2	2	0.00	0.00	0.03
Glossy Ibis														1	1	0.00	0.00	0.02
Black Vulture	10	1	1	13	85	3	66	16	42	2	4	16	2		261	0.06	0.31	0.00
Turkey Vulture	43	30	12	55	44	43	179	127	64	18	30	54	31	87	817	0.45	0.81	1.40
Osprey	2				3	4	25	21	15		19	5		22	116	0.01	0.12	0.35
Swallow-tailed Kite										1					1	0.00	0.00	0.00
Mississippi Kite									1				1		2	0.00	0.00	0.00
Bald Eagle					4	1	24	19	9	1	1	4		1	64	0.00	0.08	0.02
Northern Harrier	1							1					1		3	0.01	0.00	0.00
Sharp-shinned Hawk				1	1	1	1	1	2	1		1	3		12	0.00	0.02	0.00
Cooper's Hawk		2	1	8	5	5	3	2	2	1	2	1	1	1	34	0.02	0.04	0.02
<i>Accipiter</i> sp.						1	1								2	0.00	0.00	0.00
Red-shouldered Hawk	3		3	11	19	11	50	25	21	26	6	6	6	10	197	0.03	0.23	0.16
Broad-winged Hawk	5	5		1	4	4	7	1	1		2				30	0.05	0.03	0.00

	Trans 14May	Bunc 8 May	Hend 14May	Forsyt 7 May	Gmsb 7 May	So Pin 24 Apr	Chapl 1 May	Jord 8 May	Durh 24 Apr	Wake 14May	Falls 27 Apr	Kerr 2 May	Raven 30 Apr	Onslw 14May	Total	per party hour mts pied coast		
Red-tailed Hawk <i>Buteo</i> sp.	2	3	4	29	33	12	41	16	19	14	7	6	8	8	202	0.05	0.23	0.13
American Kestrel		2				4		2		2			1		2	0.00	0.00	0.00
Merlin			1								1				2	0.01	0.01	0.00
Peregrine Falcon	1														1	0.01	0.00	0.00
Clapper Rail														10	10	0.00	0.00	0.16
King Rail														1	1	0.00	0.00	0.02
Common Moorhen														9	9	0.00	0.00	0.15
American Coot						81	1	2						1	85	0.00	0.11	0.02
Black-bellied Plover														94	94	0.00	0.00	1.52
Wilson's Plover														3	3	0.00	0.00	0.05
Semipalmated Plover			1											63	64	0.01	0.00	1.02
Piping Plover														3	3	0.00	0.00	0.05
Killdeer		8	16	55	26	19	29	33	11	10	8	20	24	22	281	0.13	0.29	0.35
American Oystercatcher														24	24	0.00	0.00	0.39
Greater Yellowlegs			3			1				1		11	2	13	31	0.02	0.02	0.21
Lesser Yellowlegs			3	4	4	1	8	3					1	10	34	0.02	0.03	0.16
Solitary Sandpiper	2	10	2	54	21	1	22	20	1	9	2	2	1		147	0.07	0.17	0.00
Willet														25	25	0.00	0.00	0.40
Spotted Sandpiper	10	6	3	36	20	25	24	41	4	25	3	12	11	8	228	0.10	0.25	0.13
Whimbrel														4	4	0.00	0.00	0.06
Ruddy Turnstone														74	74	0.00	0.00	1.19
Red Knot														449	449	0.00	0.00	7.24
Sanderling														162	162	0.00	0.00	2.61
Semipalmated Sandpiper														381	381	0.00	0.00	6.15
Least Sandpiper			9	5	7	4		1		16		4	9	26	81	0.05	0.06	0.42
White-rumped Sandpiper														1	1	0.00	0.00	0.02
Pectoral Sandpiper										1					1	0.00	0.00	0.00

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Dunlin														151	151	0.00	0.00	2.44
Stilt Sandpiper														2	2	0.00	0.00	0.03
<i>Calidris</i> sp.							3								3	0.00	0.00	0.00
Short-billed Dowitcher										1				57	58	0.00	0.00	0.92
Wilson's Snipe						4									4	0.00	0.01	0.00
American Woodcock	2								1				1		5	0.01	0.00	0.00
Wilson's Phalarope														1	1	0.00	0.00	0.02
Laughing Gull														309	309	0.00	0.00	4.98
Bonaparte's Gull					1							15			17	0.00	0.02	0.00
Ring-billed Gull				76	73		41	567	256		1000	54		112	2179	0.00	2.59	1.81
Herring Gull												1		28	29	0.00	0.00	0.45
Great Black-backed Gull														6	6	0.00	0.00	0.10
Caspian Tern								4	17			3	11		35	0.00	0.04	0.00
Royal Tern														122	122	0.00	0.00	1.97
Sandwich Tern														3	3	0.00	0.00	0.05
Common Tern														48	48	0.00	0.00	0.77
Forster's Tern														35	35	0.00	0.00	0.56
Least Tern														202	202	0.00	0.00	3.26
Black Skimmer														16	16	0.00	0.00	0.26
Rock Pigeon	7	13	5	62	86	9	158	14	42	183	3	35	35	58	710	0.13	0.79	0.94
Eurasian Collared-Dove														3	3	0.00	0.00	0.05
Mourning Dove	90	103	78	153	109	240	257	170	161	123	56	86	232	326	2184	1.45	1.99	5.26
Black-billed Cuckoo			2		1										3	0.01	0.00	0.00
Yellow-billed Cuckoo	10		13	4	3		16	15		7		9	3	18	98	0.12	0.07	0.29
Barn Owl			1												1	0.01	0.00	0.00
Eastern Screech-Owl	2			1			1	1						3	8	0.01	0.00	0.05
Great Horned Owl	1				3			4	4					1	13	0.01	0.01	0.02
Barred Owl	1	1		3	3	7	17	8	9	6		6	1	2	64	0.01	0.08	0.03
Common Nighthawk			12		1					2		1		1	17	0.06	0.01	0.02
Chuck-will's-widow				3		15		6		3	2	6		10	45	0.00	0.04	0.16



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Whip-poor-will	2					12	6	7	2		1	18		5	53	0.01	0.06	0.08
Chimney Swift	56	79	28	165	800	44	170	79	146	87	8	9	86	56	1813	0.87	2.00	0.90
Ruby-throated Hummingbird		13	3	10	12	24	48	9	18	19	3	13	4	5	181	0.09	0.20	0.08
Belted Kingfisher	3	3	1	10	10	10	17	4	15	16	3	3	15	3	113	0.04	0.13	0.05
Red-headed Woodpecker				2	1	12	16	11	10	15	9	1		17	94	0.00	0.10	0.27
Red-bellied Woodpecker	14	28	21	100	84	61	205	123	44	70	16	38	15	35	854	0.34	0.95	0.56
Yellow-bellied Sapsucker				2			1		2						5	0.00	0.01	0.00
Downy Woodpecker	9	14	10	55	32	17	59	35	26	32	5	11	7	9	321	0.18	0.35	0.15
Hairy Woodpecker	1	5	4	7	3	4	20	13	12	6	4	3		1	83	0.05	0.09	0.02
Red-cockaded Woodpecker						17								6	23	0.00	0.02	0.10
Northern Flicker	6	25	6	20	14	23	38	23	13	16	16	14	3	14	231	0.20	0.23	0.23
Pileated Woodpecker	20	26	4	10	3	19	23	22	7	5	8	9	4	13	173	0.27	0.14	0.21
Eastern Wood-Pewee	10	18	7	8	5	4	17	54	2	11	1	10	19	42	208	0.19	0.16	0.68
Acadian Flycatcher	7	2	3	1	4	2	34	18	2	26		8	8	22	137	0.06	0.13	0.35
Alder Flycatcher			1												1	0.01	0.00	0.00
Willow Flycatcher	9		12												21	0.11	0.00	0.00
Eastern Phoebe	34	52	21	35	19	12	33	29	19	16	6	7	9		292	0.57	0.23	0.00
Great Crested Flycatcher	16	9	9	23	18	92	80	92	20	53	17	40	45	101	615	0.18	0.60	1.63
Eastern Kingbird	10	16	2	33	33	58	38	115	18	42	19	43	46	53	526	0.15	0.56	0.85
Loggerhead Shrike						12				2			16		30	0.00	0.04	0.00
White-eyed Vireo	11	8	6	8	2	39	35	19	32	15	10	19	8	31	243	0.13	0.23	0.50
Yellow-throated Vireo		8		7	2	11	30	31	3	2	1	6	3	19	123	0.04	0.12	0.31
Blue-headed Vireo	30	83	5	8	3	7	7	12	14	2	14	3		1	189	0.63	0.09	0.02
Warbling Vireo		5													5	0.03	0.00	0.00
Philadelphia Vireo				1											1	0.00	0.00	0.00

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Red-eyed Vireo	53	71	18	78	80	42	346	276	203	75	72	160	61	34	1569	0.76	1.75	0.55
Blue Jay	79	331	51	2604	261	140	340	398	124	84	76	217	84	31	4820	2.46	5.43	0.50
American Crow	228	203	148	147	130	232	277	256	195	128	65	127	108	133	2377	3.09	2.09	2.15
Fish Crow				3	26	105	54	34	22	35	17	10	59	31	396	0.00	0.46	0.50
Common Raven	4	8		2											14	0.06	0.00	0.00
Crow sp.													12		12	0.00	0.02	0.00
Horned Lark						5							6	2	13	0.00	0.01	0.03
Purple Martin	55		24	30	74	103	48	28	23	44	11	101	25	150	716	0.42	0.61	2.42
Tree Swallow	58	32	5	1	19	13	7	13	67	14	7	5	1		242	0.51	0.18	0.00
Northern Rough-winged Swallow	43	28	19	51	59	68	39	23	66	20	14	58	21	50	559	0.48	0.53	0.81
Bank Swallow				3	55	5									63	0.00	0.08	0.00
Cliff Swallow				32	8	3	3	367	32		10	7			462	0.00	0.58	0.00
Barn Swallow	104	63	47	123	180	169	82	174	189	157	20	19	62	205	1594	1.14	1.47	3.31
Carolina Chickadee	51	101	43	124	82	115	297	172	164	92	50	46	28	26	1391	1.04	1.47	0.42
Black-capped Chickadee	3														3	0.02	0.00	0.00
Tufted Titmouse	57	104	30	125	101	171	415	209	190	108	57	77	56	51	1751	1.02	1.89	0.82
Red-breasted Nuthatch	1	12			2	13			1			1	1		31	0.07	0.02	0.00
White-breasted Nuthatch	11	19	14	33	25	32	44	19	17	19	10	12	2	1	258	0.23	0.27	0.02
Brown-headed Nuthatch		4		16	17	77	50	56	23	35	15	23	3	36	355	0.02	0.39	0.58
Brown Creeper	2	4													6	0.03	0.00	0.00
Carolina Wren	74	114	58	119	138	196	512	233	193	110	47	70	83	66	2013	1.31	2.13	1.06
House Wren	29	7	8	28	11	5	45	8	13	9		4	3		170	0.23	0.16	0.00
Winter Wren	5	33							2						40	0.20	0.00	0.00
Golden-crowned Kinglet	18	20							1						39	0.20	0.00	0.00
Ruby-crowned Kinglet		1		8	7	30	43	2	35		5	7			138	0.01	0.17	0.00
Blue-gray Gnatcatcher	14	56	15	35	48	168	345	222	269	116	61	123	47	95	1614	0.45	1.80	1.53

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Eastern Bluebird	78	77	26	78	110	193	240	164	133	83	43	68	119	33	1445	0.97	1.54	0.53
Veery	2	8	1	13	12		7	1				1			45	0.06	0.04	0.00
Gray-cheeked Thrush		1		2	2										5	0.01	0.01	0.00
Swainson's Thrush			1	9	9	1	17	4	1	1		1			44	0.01	0.05	0.00
Hermit Thrush		1		1	1				1						4	0.01	0.00	0.00
<i>Catharus</i> sp.							1								1	0.00	0.00	0.00
Wood Thrush	31	38	11	42	46	14	95	74	32	17	18	53	12	8	491	0.43	0.51	0.13
American Robin	141	290	111	380	353	192	230	57	142	157	16	22	91	32	2214	2.89	2.06	0.52
Gray Catbird	55	41	19	72	86	27	112	48	13	33	1	19	18	36	580	0.67	0.54	0.58
Northern Mockingbird	45	69	46	88	126	151	184	96	73	48	12	34	124	92	1188	0.85	1.17	1.48
Brown Thrasher	36	22	31	42	37	53	72	41	17	21	11	25	25	29	462	0.48	0.43	0.47
European Starling	162	170	122	354	372	207	350	122	336	178	29	39	335	188	2964	2.42	2.91	3.03
Cedar Waxwing	107	74	89	364	282	82	104	87	46	39			20		1294	1.44	1.28	0.00
Blue-winged Warbler					5		4					1	1		11	0.00	0.01	0.00
Golden-winged Warbler					2										2	0.00	0.00	0.00
Tennessee Warbler					1		1	1							3	0.00	0.00	0.00
Orange-crowned Warbler						1									1	0.00	0.00	0.00
Nashville Warbler		1			1		1								3	0.01	0.00	0.00
Northern Parula	28	16	4	10	38	13	118	87	61	26	22	30	15	32	500	0.26	0.53	0.52
Yellow Warbler	2	19	4	4	19	3	12	26	5	4	4	7	1		110	0.13	0.11	0.00
Chestnut-sided Warbler	41	36	4	4	12		1			2					100	0.43	0.02	0.00
Magnolia Warbler		2	3	3	1			1							10	0.03	0.01	0.00
Cape May Warbler		2	1	3	1		1								8	0.02	0.01	0.00
Black-throated Blue Warbler	4	64		63	84	3	86	64	2	4		26	9		409	0.36	0.43	0.00
Yellow-rumped Warbler	1	33		116	195	129	303	240	280	10	52	155	51		1565	0.18	1.92	0.00
Black-throated Green Warbler	10	82	1	11	7	1	2	2		4					120	0.50	0.03	0.00
Blackburnian Warbler	2	37	2	3	1				1						46	0.22	0.01	0.00

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Yellow-throated Warbler	14	2		1	2	26	22	71	23	7	10	23	18	34	253	0.09	0.25	0.55
Pine Warbler	1	5	13	10	23	74	166	206	60	41	50	47	36	44	776	0.10	0.89	0.71
Prairie Warbler		1		1	9	21	36	40	12	3	19	38	27	50	257	0.01	0.26	0.81
Palm Warbler		6		7	7	3	4	2	4			2			35	0.03	0.04	0.00
Bay-breasted Warbler							1	1							2	0.00	0.00	0.00
Blackpoll Warbler	15	5	11	4	13		4	19		14		1	1	1	88	0.17	0.07	0.02
Cerulean Warbler	1	4													5	0.03	0.00	0.00
Black-and-white Warbler	20	40	3	13	24	24	82	52	4	4	3	16	13		298	0.34	0.29	0.00
American Redstart	13	30	8	29	38	6	63	35	5	17		15	12		271	0.27	0.28	0.00
Prothonotary Warbler				1	5	10	52	32	21	3	3	16	20	14	177	0.00	0.20	0.23
Worm-eating Warbler	2	3		4	1	2	11	5	2	1		1	1	14	47	0.03	0.04	0.23
Swainson's Warbler						2							1	6	9	0.00	0.00	0.10
Ovenbird	22	92	1	13	46	37	178	152	37	22	26	87	29	21	763	0.61	0.79	0.34
Northern Waterthrush			4	4	4		7	2	6	1					28	0.02	0.03	0.00
Louisiana Waterthrush	4	2	1	5	3	5	15	5	5	9		1	6	2	63	0.04	0.07	0.03
Kentucky Warbler		1		1	1	4	2	1	2	1			2	3	18	0.01	0.02	0.05
Connecticut Warbler			1												1	0.01	0.00	0.00
Common Yellowthroat	40	10	43	15	57	62	123	102	91	46	12	58	26	40	725	0.50	0.74	0.65
Hooded Warbler	42	79	8	2	9	5	61	45	16	2	20	9	27	13	338	0.69	0.25	0.21
Wilson's Warbler			1												1	0.01	0.00	0.00
Canada Warbler	6	72		1	1										80	0.42	0.00	0.00
Yellow-breasted Chat	9	2	8	8	7	4	33	37	4	12	3	32	18	18	195	0.10	0.20	0.29
Summer Tanager				4	4	9	107	136	15	34	16	48	29	37	439	0.00	0.50	0.60
Scarlet Tanager	15	41	6	32	30	9	67	79	7	9	7	13	3		318	0.33	0.32	0.00
Eastern Towhee	132	130	105	115	86	126	268	125	161	71	40	29	25	50	1463	1.96	1.31	0.81
Bachman's Sparrow						2								11	13	0.00	0.00	0.18
Chipping Sparrow	12	48	3	73	58	259	248	197	146	55	46	121	72	37	1375	0.34	1.60	0.60
Field Sparrow	10	22	16	9	12	9	26	15	59	6	11	13	17		225	0.26	0.22	0.00
Savannah Sparrow			1	4	4	8	4	1	7			4	4	1	38	0.01	0.05	0.02

	Trans 14May	Bunc 8 May	Hend 14May	Forsyt 7 May	Gmsb 7 May	So Pin 24 Apr	Chapl 1 May	Jord 8 May	Durh 24 Apr	Wake 14May	Falls 27 Apr	Kerr 2 May	Raven 30 Apr	Onslw 14May	Total	per party mnts	hour pied	coast
Grasshopper Sparrow		2	2	6	5	4			2	2			3	9	35	0.02	0.04	0.00
Seaside Sparrow														5	5	0.00	0.00	0.08
Fox Sparrow				1											1	0.00	0.00	0.00
Song Sparrow	233	215	166	57	83		49	15	17	5	2		1		843	3.28	0.29	0.00
Swamp Sparrow	1					1	13	2	18		3	9			47	0.01	0.06	0.00
White-throated Sparrow	1	13	1	89	84	160	266	100	417	6	29	57	30		1253	0.08	1.55	0.00
White-crowned Sparrow		1		1	1				1						4	0.01	0.00	0.00
Dark-eyed Junco	9	112			1	6	1		1						130	0.65	0.01	0.00
Northern Cardinal	156	160	132	219	246	299	818	371	387	207	103	138	135	141	3512	2.39	3.66	2.27
Rose-breasted Grosbeak	4	49		20	10	1	12	3		1		9	2		111	0.28	0.07	0.00
Blue Grosbeak	1		6	9	10	14	42	50	6	32	1	15	23	28	237	0.04	0.25	0.45
Indigo Bunting	80	85	65	56	75	10	117	153	20	59	8	50	26	68	872	1.23	0.72	1.10
Painted Bunting						1								29	30	0.00	0.00	0.47
Bobolink	38	60	11	33	18		5	32		40				2	239	0.58	0.16	0.03
Red-winged Blackbird	148	96	59	92	84	101	78	137	126	79	4	38	68	138	1248	1.62	1.01	2.23
Eastern Meadowlark	24	13	37	25	24	73	3	36	24	39	3	17	29	15	362	0.40	0.34	0.24
Rusty Blackbird					1										1	0.00	0.00	0.00
Common Grackle	78	114	58	255	408	180	297	231	404	164	76	73	339	182	2859	1.33	3.04	2.94
Boat-tailed Grackle														87	87	0.00	0.00	1.40
Brown-headed Cowbird	21	24	12	65	56	93	204	113	142	52	35	47	66	53	983	0.30	1.09	0.85
Orchard Oriole	12	5	6	15	16	25	18	44	3	13	2	19	24	31	233	0.12	0.22	0.50
Baltimore Oriole		10	2	20	13		3	6		1			2	2	59	0.06	0.06	0.03
Purple Finch	2														2	0.01	0.00	0.00
House Finch	28	45	26	128	65	76	165	41	31	80	6	4	29	17	741	0.53	0.78	0.27
Red Crossbill		1													1	0.01	0.00	0.00
Pine Siskin	1	13				11	4		1		3				33	0.07	0.02	0.00
American Goldfinch	72	114	40	179	286	161	554	222	249	155	70	82	33	6	2223	1.21	2.50	0.10
House Sparrow	7	34	2	27	26	21	102	20	27	18	21	13	81	52	451	0.23	0.45	0.84

	Trans 14May	Bunc 8 May	Hend 14May	Forsyt 7 May	Grnsb 7 May	So Pin 24 Apr	Chapl 1 May	Jord 8 May	Durh 24 Apr	Wake 14May	Falls 27 Apr	Kerr 2 May	Raven 30 Apr	Onslw 14May	Total	per party hour mts pied coast
total species	112	117	106	128	136	133	133	131	122	118	99	117	112	150	245	
total birds	3491	4800	2269	8414	7588	6029	11757	9254	8439	4456	2889	3671	3652	6877	83586	
# participants	34	21	13	45	35	35	42	47	31	24	7	7	11	20	372	
total party hours	87.00	65.75	34.55	109.00	94.86	65.00	163.70	137.25	104.00	58.50	41.00	77.25	42.00	62.00	1141.9	
total party miles	273.00	363.00	185.60	162.00	338.60	414.35	277.20	218.90	208.00	166.50	98.25	161.20	258.50	539.00	3668	
hours on foot	30.00	30.50	16.75	79.50	77.35	24.25	126.35	94.15	80.75	52.50	35.50	40.25	26.50	27.50	742	
hours by car	57.00	35.25	17.80	29.50	17.51	40.75	31.10	23.10	19.75	6.00	5.50	37.00	15.50	28.50	364	
hours by bicycle								2.50							3	
hours canoe/kayak/boat							6.25	17.50							4.75	29
hours ATV														1.25	1	
miles on foot	18.00	26.50	11.10	52.00	55.00	18.75	79.00	65.50	73.50	49.00	32.00	33.00	16.50	17.00	547	
miles by car	255.00	336.50	174.50	110.00	283.60	395.6	191.2	126.4	134.5	117.5	66.25	128.2	242.0	496.5	3058	
miles by bicycle								15.00							15	
miles canoe/kayak/boat							7.00	12.00							22.00	41
Miles by ATV															3.50	4
hours owling				2.50		3.00	2.50	3.58	2.00				0.25	3.75	18	
miles owling				4.00			5.00	26.00					0.25	34.50	70	
feeder hours				8.00		26.30	27.75		3.00						65	
total birds per party hour	40.13	73.00	65.67	77.19	79.99	92.95	71.82	67.42	81.14	76.17	70.46	47.52	86.95	110.9	56.38	96.61 110.9