

2008 Spring Migration Counts in North Carolina

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Sixteen North Carolina count areas submitted data for the 2008 spring migration count: four from the mountains, eleven from the piedmont/upper coastal plain, and one from the coast. This year the Catawba County count returned after a one-year hiatus, and the Black Mountains count did not take place because much of the Blue Ridge Parkway in that area was closed, making the count area inaccessible. This year's counts were carried out between 26 April and 17 May.

A total of 402 participants counted 79,327 individuals and 229 species in 1,168.4 party-hours. Although there were more participants this year than last year, there were slightly fewer party-hours (actual time spent birding) than last year, and over 7,000 fewer birds, although total species were about the same. Most counts showed fewer individuals than last year, but the greatest decline was with the Onslow County count, mostly because last year was an exceptionally good year for that count, but also because the shorebird count was atypically low this year as a result of less coverage. The lower number of total birds also resulted in lower than average birds per party hour (67.89 in 2008 compared to 70.52 in 2007 and 70.59 in 2006). In fact, it was the lowest number of birds per party hour since 2003.

Of the total species counted, 21.8% were found in only one count area, 17.5% were found in all count areas, and an additional 11.8% were found in all but one count area. Most of the one-count misses were species missed on the Balsam Mountains count. That high-elevation area lacks wetlands, so waterfowl and shorebirds are rarely found, and it is very heavily forested so even some birds that are quite common in most other areas are missing from this count.

Exclusives are listed with the count details and summarized in Table 1.

Table 1 Number of species exclusive to a count

Mountains		Piedmont		Coastal Plain	
Balsam Mountains	4	Catawba County	1	Onslow County	27
Buncombe County	2	Forsyth County	4		
		Greensboro	1		
		Durham	5		
		Chapel Hill	1		
		Wake County	1		
		Jordan Lake	1		
		Kerr Lake	2		
		Southern Pines	1		

Unusual species included on the count were several late-departing waterfowl including a White-winged Scoter and a Horned Grebe on the Kerr Lake count, Greater Scaup on the Durham count, Lesser Scaup on the Southern Pines count, and American Wigeon and Northern Shoveler on the Onslow County count. The Durham count also included an American Bittern and a Black-crowned Night-Heron, species often missing from the NC count. Another excellent find was a King Rail on the Chapel Hill count. Although some of the shorebirds that normally appear on the Onslow count were missing, other counts picked up some passing shorebirds including Semipalmated Plover on the Buncombe count, Pectoral Sandpiper on the Catawba count, Dunlin on the Jordan Lake count, and Short-billed Dowitcher on the Forsyth count. Unusual neo-tropical migrants included Philadelphia Vireo on the Wake count, Tennessee Warbler on the Greensboro count, Orange-crowned and Nashville Warbler on the Forsyth count, and Wilson's Warbler on the Buncombe count. Other late-departing birds included American Pipit and Rusty Blackbird on the Forsyth count, and Lincoln's Sparrow on the Durham count.

Trends this year include the continued increase in the number of Great Blue Herons with 908, an increase of 156 from last year. Bald Eagle numbers were near what they were in 2007, and the total number of Northern Bobwhites plunged to a meager 36 for the whole state. For some other species of concern, Grasshopper Sparrow numbers were at their highest in several years with a total of 54. High count this year was 12 from the Catawba County count. Wood Thrush and Scarlet Tanager numbers declined slightly from recent years, and Field Sparrow and Eastern Meadowlark numbers held steady.

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

Count Area Details

Mountains

Transylvania County—count date 3 May, 119 species, 3,437 individuals, 22 participants, 45.00 party-hours.

Weather overcast and cloudy in the morning with light rain, windy most of the day.

Compiler: Norma Siebenheller (sieb@citcom.net)

Participants: Dennis and Kathryn Allen, Marvin and Michele Barg, Kathy Bartt, Dorothy Bauer, Pat Blaine, Dick Blee, Pat Bohan, John Devlin, Ruth and Don Duncan, Elizabeth Galloway, Jeanne Grimmenga, Mike Judd, Ludwig and Louise Kempe, Ruth Klock, Chris and Sally Macmillan, Betty McIlwain, Carolyn and Rick Mills, Norma and Bill Siebenheller, Mary Skogland, Connie Updike, Barbara Williams, Sam Woodruff, Camille Ziegler

Exclusives: none

Notes: Despite heavy winds on the count day, and early rain on the parkway, which hit the lower areas in the afternoon, the 30 participants in the 2008 Transylvania Spring Count managed to come up with one of the highest species totals recorded here—119. Only twice before has this been exceeded (120 once, 123 once). Of course the adverse weather conditions kept the individual numbers low for many species, but overall we were satisfied with our efforts. Some of the more interesting finds were late-lingering species such as Pied-billed Grebe, Double-crested Cormorant, Bufflehead, Ruby-crowned Kinglet, Swamp Sparrow, and White-crowned Sparrow. Large numbers of Pine Siskins remained, fueling hopes that some may stay to breed in the county as they have done in the past. Warbler species were well represented, with Cerulean, Swainson's and Kentucky Warblers found at expected spots. That a few must-have birds were missed—Peregrine Falcon, Veery, American Kestrel, for example—can be blamed on the weather, as we know they are here.

Norma Siebenheller

Great Balsam and Plott Balsam Mountains IBA—count date 17 May, 86 species, 2,946 individuals, 17 participants in 8 parties, 68.00 party-hours.

Weather: Cold and windy in the early morning, 35°F, warmed up quickly when the sun came up and the wind died down, 70°F in afternoon.

Compiler: Marilyn Westphal (mjwestph@unca.edu)

Participants: Nancy Casey, Tom Flagg, Katie Goodman, Doug Johnston, Gail and Herman Lankford, Tim Lewis, Leigh McDougal, Bob Olthoff, Janie Owens, Ray Sharpton, Andy Shaw, Tom Tribble, Connie Ward, Lou Weber, Marilyn Westphal, Stan Wulkowicz

Exclusives: Peregrine Falcon, Alder Flycatcher, Least Flycatcher, Black-capped Chickadee

Notes: The species total of 86 was the highest in the three-year history of this count, but the total of 2,944 individuals was average. Most birds were seen individually because there are almost no flocks of birds in the area at this time of year. Typically the only flocking birds are Cedar Waxwing, Red Crossbill, and Pine Siskins. The area covered is along the Blue Ridge Parkway roughly from the Pisgah Inn to the Smoky Mountains, and also includes the Shining Rock Wilderness. Much of this area is high-elevation and includes mountain balds, deciduous forest, and spruce/fir forest. Thus, the most abundant species are not typically those that are most abundant on other counts. Top ten species were Dark-eyed Junco (405), Chestnut-sided Warbler (330), Eastern Towhee (252), Blue-headed Vireo (195), American Robin (162), Golden-crowned Kinglet (113), Black-throated Green Warbler (93), Black-throated Blue Warbler (84), Ovenbird (84), and Canada Warbler (83). Interesting finds included two Bald Eagles, four Ruffed Grouse (always fun to see), two American Woodcocks still peenting at elevations near 6000 feet, seven Least Flycatchers, 22 Black-capped Chickadees (or at least sounding, looking, and acting like BC Chickadees), an amazing 31 Brown

Creepers, and five Hermit Thrushes—largely in locations where they have been noted as probable breeding birds in the previous two summers, two migrating Bay-breasted Warblers, and 28 Pine Siskins. As usual it was great fun and everyone did a great job.

Marilyn Westphal

Henderson County—count date 10 May, 114 species, 2,916 individuals, 12 participants, 44.70 party-hours.

Compiler: Jim Neal (jlbjneal@bellsouth.net)

Participants: Jack Drost, Bill Fisk, Mimi Kaufer, Doug Johnston, Richard Leppingwell, Denne Liberaton, Mike McCurdy, Nora Murdock, Suzanne Mwengi, Barbara Neal, Jim Neal, Frances Ogasawara, Janie Owens, Ron Selvey, Linda Stowers, Cora Anne Thomas, Simon Thompson, Marilyn Westphal

Exclusives: none

Notes: 18 people worked 10 areas in the county and found 114 species and 2,916 total birds. The 114 species total is in the middle of the range of our 11 years of data, with the lowest being 103 species in 2001 and highest being 120 species in 2006. The 2,916 total birds are the fourth highest ever. The lowest total birds was 2,015 in 1999 when we had 14 people covering 8 areas and the highest was 3,705 in 2002 when we had 18 people covering 10 areas.

Finding the Fish Crow and two Wilson's Snipe in the section known as NC191 Farm Lands were the highlights for the day. While the Fish Crow has been seen and heard in the county with increasing frequency, this was the first time one was found on a Spring Migration Count Day and this was only the second sighting of the snipe. The Yellow-throated Vireo in Jackson Park and the Baltimore Oriole along Lake Osceola and in Fletcher Park were two others not always found. There were six species with more than 100 birds seen. The Cedar Waxwing was tops at 200 followed by the Song Sparrow (129), European Starling (128), American Robin (106), Northern Cardinal (102), and Eastern Towhee (101). Twenty species of warblers were seen, with the American Redstart, Common Yellowthroat and Blackpoll being the most plentiful. We missed a few birds that had been found on one or more previous counts, but overall it was a great day. I want to thank all those who participated for a job well done!

Jim Neal

Buncombe County—count date 11 May, 117 species, 4,055 individuals, 24 participants in 7 parties, 64.50 party-hours.

Weather: Warm, 55–70 °F, windy, mix of sun and clouds, afternoon rain in some locations.

Compiler: Marilyn Westphal (mjwestph@unca.edu)

Participants: Nancy Casey, Peggy Franklin, Charlotte Goedsche, Katie Goodman, Mark Hamlin, Michelle Johnson, Doug Johnston, Gail and Herman Lankford, Andrew Laughlin, Leigh McDougal, Naomi Otterness, Janie Owens, Len Pardue, Kittie Reynolds, Steve Semanchuk, Ray Sharpton,

Andy Shaw, Liz Skiles, Jennifer Stanley, Tom Tribble, Lou Weber, Marilyn Westphal, Ruth Young.

Exclusives: Semipalmated Plover, Wilson's Warbler

Notes: Although the total number of species found was on the high side of average, the total number of individuals was low. Much of the day was windy and some groups encountered fog in the morning and rain during part of the afternoon, but the greatest difference in this count from previous counts was the low numbers of species and individuals associated with higher elevations such as Red-breasted Nuthatch, Canada Warbler, Blackburnian Warbler, Dark-eyed Junco, Blue-headed Vireo, Veery, Winter Wren, and Brown Creeper, and the total absence of Golden-crowned Kinglet, Hermit Thrush, and Pine Siskin. This low count occurred because the main high-elevation section of the count was inaccessible; the Blue Ridge Parkway was closed beyond mile marker 367. Also, for the first time ever there were no owls counted. But the lack of these species was balanced by several first-time species for this count including American Coot, Semipalmated Plover, Whip-poor-will, Wilson's Warbler, Swamp Sparrow, and, most surprisingly, a Caspian Tern at Beaver Lake. Also not often found on the Buncombe County count were Least Sandpiper and Bay-breasted Warbler. Because Beaver Lake had been lowered, creating a large mud flat, it was also a better-than-usual year for shorebirds.

This was the eighth successive count for Buncombe County, and several high counts were attained including Great Blue Heron (6), Canada Goose (119), Mallard (193), Turkey Vulture (52), Cooper's Hawk (3), Broad-winged Hawk (6), Wild Turkey (26), Killdeer (13), Downy Woodpecker (20), Eastern Kingbird (18), House Wren (32), Yellow-throated Vireo (14), Black-and-white Warbler (72), American Redstart (43), and Scarlet Tanager (51). Unusually low counts of Mourning Dove (79), Northern Flicker (8), Blue-gray Gnatcatcher (25), American Robin (155), European Starling (90), and House Finch (33) were also recorded.

Marilyn Westphal

Piedmont

Catawba County—count date 10 May, 118 species, 3,140 individuals, 13 participants, 84 party-hours.

Compiler: Lori Owenby (loriowenby@gmail.com)

Participants: Andrea Bruns, Lou Bruns, Linda Gilbert, Dave Hardin, Alisha Hayes, Tim Isenhour, Dwayne Martin, MaryAnn McRee, Lori Owenby, Monroe Pannell, Frank Porch, Blair Rayfield, John Sutton

Exclusives: Pectoral Sandpiper

Notes: This exceptionally good count brought 118 species, beating our previous high count of 110. Although numbers were low for some species, we had an amazing 23 species of warblers. Winter holdovers included Yellow-bellied Sapsucker, Yellow-rumped Warbler, White-throated Sparrow, and Purple Finch. We also had some near misses with very disappointing numbers of Wild Turkey (1), Northern Bobwhite (1), Green

Heron (1), American Kestrel (1), Rock Pigeon (1), Barred Owl (1), Whip-poor-will (1), Hairy Woodpecker (1), Loggerhead Shrike (1), and Fish Crow (1). Baker's Mountain Park continues to be the best spot in the county for variety and numbers of spring migrants. Other hot spots included Shell Hollar Road, Lyle Creek, Bunker Hill Covered Bridge, and Riverbend Park.

Lori Owenby

Forsyth County—count date 3 May, 130 species, 4,715 individuals, 52 participants, 87.75 party-hours.

Compiler: Linda Davis (davisl@mindspring.com)

Participants: Ga Baliga, Steve Barnes, Kin Brand, Tommie Castleman, Peg Cochran, Linda and Larry Davis, Phil Dickinson, David and Susan Disher, Ferenc Domoki, Cynthia Donaldson, Bill Gifford, John Haire, Sven Halling, Bill and Susan Hammond, John and Elaine Hammond, Myrna Harris, Bert Hollifield, Hop Hopkins, Susan Horton, Royce Hough, Bill Jackson, Kitty Jensen, Warren and Susan Jones, Ray Kandt, Barbara and Leon Kendrick, Ellen Kirkman, Norwood Lide, Jim Martin, Ron Morris, Ed and Margaret Mulvey, Lea Nading, Ann Newsome, Janice Ovelman, Paul Powers, Judy and Alex Pozniak, Jeremy Reiskind, Ann and Chester Robertson, Liz Schmid, N. L. Shearouse, Gene Schepker, Lois Schneider, Fran Shelton, Jim Spencer, Pat Stewart, Mike and Marilyn Shuping, Bill Sugg, Chuck and Cindy Thompson,

Exclusives: Short-billed Dowitcher, Orange-crowned Warbler, Nashville Warbler, Rusty Blackbird

Notes: Warbling Vireos were sighted at Bethabara Park wetlands on the spring count. Two vireo nests were subsequently discovered on the Civitan Park Greenway (part of Salem Lake Greenway). Short-billed Dowitchers were observed at Archie Elledge Sewage Treatment Plant. This is a rare spring and fall transient, last seen in April and May 1987. A Sora was heard at Tanglewood Park in Clemmons. Another unusual find at Tanglewood Park was a Nashville Warbler. An exciting postscript to the count was the return of Willow Flycatchers to Salem Creek later in May. The banks of the creek had been completely stripped of vegetation several years ago, then allowed to return to a natural vegetated state.

Linda Gibson Davis

Greensboro—count date 5 May, 127 species, 7,466 individuals, 24 participants, 82.25 party-hours.

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

Participants: Carolyn Allen, Diane Bowman, Louise Brown, Sue Cole, Scott DePue, Judi Durr, Larry Gasper, Herb Hendrickson, Phillip Kellam, Jane Lewis, Elizabeth Link, Henry Link, Lorraine Marshall, Steve Marshall, Gregg Morris, Lynn Moseley, Jean Murdick, Sandy Post, Lou Skrabec, Laurie Sorrell, Johnathan Thielen, Emily Tyler, Ann Walter-Fromson, Melissa Whitmire

Exclusives: Tennessee Warbler

Notes: none

Southern Pines—count date 27 April, 127 species, 4,154 individuals, 22 participants, 60.40 party-hours.

Compiler: Susan Campbell (susan@ncaves.com)

Participants: Rex Badgett, Nancy Basinger, Brady Beck, Carol Bowman, Susan Campbell, Jay Carter, Dick Dole, Lois Dole, Scott Hartley, Wayne Irvin, Alicia Jackson, Charlie Jones, Linda Jones, David McCloy, Michael McCloy, Carolyn McDermott, Dan Pieroni, Jessie Schillachi, Patrick Shaffner, Bruce Sorrie, Lowell Strine, Susan Strine

Exclusives: Lesser Scaup

Notes: Despite good weather and a good effort by participants, numbers of individuals and species were not impressive. Migrants were sparse and very few overwintering species remained.

Susan Campbell

Chapel Hill—count date 3 May, 127 species, 9,924 individuals, 54 participants, 147.30 party-hours.

Weather: low 60 °F, high 80 °F; wind SW 10–20 mph; mostly cloudy; no rain.

Compiler: Will Cook (cwcook@duke.edu)

Participants: Kim Aycrigg, Sam Baron, June Beyman, Audrey Booth, Jane Brinkley, Norm Budnitz, Nicki Cagle, Janet Campbell, Derb Carter, Bob Chase, Will Cook, Anson D. Cooke, Anson R. Cooke, Kyle Dexter, Barbara Driscoll, Tom Driscoll, Kent Fiala, Sue Fletcher, Cynthia Fox, Ted Gilliland, Roger Gorham, Maurice Graves, Steven Graves, Sue Greenberg, Perry Haaland, Marcia Hellerman, Loren Hintz, Bo Howes, Alan Johnston, Betty King, Alan Kneidel, Bert Liverance, May Lou Liverance, Max Lundberg, Ken Lundstrom, David Murdock, Judy Murray, Lynn Ogden, Jenny Palmer, Karen Piplani, Bob Rybczynski, Harriet Sato, Chad Schoen, Lois Schultz, Mike Schultz, Doug Shadwick, Judy Teague, Shelley Theye, Pam Timmons, Ginger Travis, Amalie Tuffin, Phil Warren, Ann Wood, Dick Wood

Exclusives: King Rail

Notes: The Chapel Hill spring count on May 3 was quite breezy, which kept numbers down and resulted in an average count. The overall numbers were nearly identical to last year's, with 127 species and 9924 individual birds (last year also 127 species; 10-year average 124 species, 11,276 birds). Party-hours and birds per party-hour were both a little below average, nearly identical to last year's numbers.

Remarkably, three species were new to the count this year: a Common Raven west of Chapel Hill, near the same spot as the ones on the Christmas count, being chased by an American Crow (Jane Brinkley), a heard-only King Rail at Jordan Lake (Lois Schultz), and a pair of feral Mute Swans (the same as on the Christmas count). The Common Raven was being harassed by an American Crow, for a nice comparison. The raven was overdue; they've been seen in the vicinity regularly over the past few years. King Rail isn't too unexpected; they did breed once at Mason Farm, just a few miles away. Hopefully the Mute Swans on this count are truly feral instead of

purchased; feral Mute Swans populations in neighboring Raleigh seem to be established and increasing. Other rarities include Pied-billed Grebe (Bob Chase), Yellow-crowned Night-Herons at the sewer-line heronry near Mike and Lois Schultz's house, Chuck-will's-widow (Norm Budnitz), Red-breasted Nuthatch (Shelley Theye, at her feeder), and Pine Siskin (Cynthia Fox, at her feeder). The nesting Hooded Mergansers at Jordan Lake only made an appearance for count week this year.

We normally set quite a few record highs, but this year there was just one: the 7 Yellow-crowned Night-Herons (2 in 1991). The 10–20 mph winds during the count kept numbers for most species down. We had no big misses and set no record lows, but several were at their lowest in many years: Wood Duck (lowest since 1990), Spotted Sandpiper (1990), Yellow-billed Cuckoo (1984, just one!), Northern Flicker (1974), Barn Swallow (1973), European Starling (1974), American Redstart (1972), Common Grackle (1974), and House Sparrow (1973).

This year Pam Timmons and Perry Haaland claimed the honor of finding the most species, with 80. They covered the Dairyland Road area west of Chapel Hill. Bob Chase, covering southwestern Durham, came close, with 78, and counted the highest number of individual birds, 833. Thanks to all of our 54 field counters and 14 feeder watchers!

Charles W. "Will" Cook

Jordan Lake—count date 4 May, 121 species, 7,891 individuals, 47 participants, 140.50 party-hours.

Weather: Low 59 °F, high 82 °F; wind 5 mph, partly cloudy.

Compiler: Norm Budnitz (nbudnitz@gmail.com)

Participants: Patsy Bailey, Barbara Beaman, Todd Bishop, Betsy Bogle, Norm Budnitz, Chris Canfield, Bob Chase, Patrick Coin, Will Cook, Anson Cooke, Kate Finlayson, Perry Haaland, Diane Hardy, Russell Herman, Carl and Loren Hintz, Denny Holland, Betty King, Max Lundberg, Jennifer Maher, Phil Manning, Marty McClelland, Melinda Meade, Kyle Mills, Micky Mills, Robin Moran, Judy Murray, Rick Payne, Lisa Pokorny, Deb Reilly, Harriet Sato, Lois and Mike Schultz, Doug Shadwick, Josh Southern, Sterling Southern, Brian Strong, Judy Teague, Pam Timmons, Ginger Travis, Andy Upshaw, Phil Warren, Carol Williamson, Rouse Wilson

Exclusives: Dunlin

Notes: May 4, 2008 was much nicer weather-wise than our recent Christmas count—no soaking rain like we had in December. The temperature ranged from 59 to 82°F, the skies were partly cloudy, and the wind was calm to about 5mph. A pleasant day to be out birding.

Forty-seven observers (10-year average: 52) in 22 parties (10-year average: 23) tallied 7,891 individual birds (average 8,697), 121 species (average 126), during 140 party-hours in the field (average 147).

The rarest bird of the day was a Dunlin, found hanging out on Seaforth Beach by Brian Strong who was also apparently hanging out on the beach about 5–10 feet away! The last time we had Dunlin on our count was in 1986. Other species of note: Jennifer Maher, Robin Moran, and Judy Murray

found 1 Ring-necked Duck and a female Hooded Merganser with 4–6 chicks. Chris Canfield and Kate Finlayson got a Red-breasted Merganser; and Betsy Bogle, Betty King, and Judy Teague found a Pied-billed Grebe.

Marty McClellan, Deb Reilly, and Ginger Travis heard what they thought might have been a King Rail in the beaver impoundment on White Oak Creek. Since they were not familiar with King Rail calls and therefore not entirely comfortable with the ID, Ginger and yours truly revisited the area several days later armed with a canoe and some rail recordings. We were unable to get any direct response to the recordings. We did hear some rail-like sounds, but Norm thinks they were made by frogs (perhaps Squirrel Tree Frog), rather than birds. It was a tough call, but given the uncertainty, we decided not to claim Kings for the count. The canoe ride was glorious, however, and we were treated to Anhingas flying overhead.

We had a few new record high counts: the 5 (or 7) Hooded Mergansers beat out 4 that were seen in 1994, 266 Great Blue Herons eclipsed the 170 recorded last year (a testament to the successful heronries springing up in various beaver impoundments around the lake), and 85 Black Vultures outbid the 53 we had last year (a testament to our growing landfills?).

Some species that were missed this year: Sharp-shinned Hawk, Broad-winged Hawk, American Kestrel, and Great Horned Owl all eluded us, likewise, Great Egret and Swamp Sparrow. But we did find 22 species of warblers, so at least some of us were favored by those glorious little gems. Thanks for counting!

Norm Budnitz

Durham—count date 27 April, 129 species, 6,718 individuals, 16 participants, 78.25 party-hours.

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

Participants: Brian Bockhahn, Norm Budnitz, Will Cook, Tom Driscoll, Tom Krakauer, Max Lundberg, Jennifer Maher, Brian Murphy, Isabel Reddy, Lynn Richardson, Lois Schultz, Michael Schultz, Doug Shadwick, Deck Stapleton, Edith Tatum, Amalie Tuffin

Exclusives: Greater Scaup, American Bittern, Black-crowned Night-Heron, American Pipit, Lincoln's Sparrow

Notes: none

Mike Schultz

Wake County—count date 10 May, 122 species, 3,254 individuals, 29 participants, 53.00 party-hours.

Weather: Beautiful throughout the day, temperatures 60–85°F with light winds and partly cloudy skies.

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

Participants: Joe Bearden, Karen Bearden, Brian Bockhahn, Pat Bost, Jerome Brewster, Halbert Carmichael, John Connors, Barbara Dixon, Will Fields, Lena Gallitano, John Gerwin, Rachel Hardin, Ann Hicks, Vernon Janke, Will Kimler, Gerry Luginbuhl, Jananne Mathison, Jim Mulholland, Kelsey Obernuetenarr, Bob O'Brien, Clyde Smith, Earl Thomas, Rick Van

Hoy, Abby Venartelli, Mary Waller, Nikki Zidar (plus three who did not register)

Exclusives: Philadelphia Vireo

Notes: Species numbers were comparable to recent years. Some interesting observations include: Great Egret (2) at Lake Wheeler; Little Blue Heron (1) at Schenck Forest; Ruddy Duck (3), Lesser Yellowlegs (1), Greater Yellowlegs (1), and Least Sandpiper (4) at NCSU Dairy Ponds; Ruby-crowned Kinglet (1), Swainson's Thrush (4), Veery (1), Loggerhead Shrike (4), found at three sites; Philadelphia Vireo (1) observed singing at Yates Mill Pond; 19 species of warblers including Yellow (4), Chestnut-sided (2), Magnolia (2), Cape May (1), Black-throated Blue (4), Prairie (2), Blackpoll (4), Black-and-white (3), and American Redstart (11). The grasslands were teeming with birds this year as a wet spring delayed the harvest of wheat and alfalfa. Dickcissels (2) were discovered by Mulholland earlier in the week and were singing at Mid-Pines Road on count day. Savannah Sparrow (3), Grasshopper Sparrow (5) were also at Mid-Pines, along with White-crowned Sparrow (2) feeding in a mulberry tree. Field Sparrows (6) were found at three sites; Bobolinks (56) were found at Mid-Pines and at Prairie Ridge.

Significant misses include: Hooded Mergansers were not found at Yates Mill Pond; Bobwhites appear to have disappeared from Wake County; Common Nighthawk was not heard in downtown Raleigh; Yellow-throated Vireo, Kentucky Warbler, and Northern Waterthrush were not recorded this year.

Cliff Swallows continue nesting in northern Wake County along Neuse River bridges.

Great Blue Heron colonies seem to be thriving, though no active colonies are easily visible along count routes. Green Herons continue to be scarce.

Purple Martin colonies are now established at Prairie Ridge Preserve and at NC Museum of Art, in addition to NCSU University Club with a couple of dozen nests. Anderson Point colony has not re-established.

Meadow habitat at Prairie Ridge and Anderson Point continues to progress; Field Sparrows have begun using both sites, and Eastern Meadowlarks are well established at PR.

Wake Audubon placed a number of Prothonotary Warbler boxes in habitat this spring at count sites; no definitive records yet.

John Connors

Falls Lake—count date 29 April, 115 species, 5,209 individuals, 17 participants, 70.75 party-hours.

Compiler: Brian Bockhahn (cbockhahn4@earthlink.net)

Participants: Brian and Colleen Bockhahn, Barbara Brooks, Amy Corbally, Ed Corey, Lena Gallitano, David Lenat, Jim Mulholland, Deborah Robertson, Harry Shoffner, Clyde Smith, Sterling Southern, Deck Stapleton, Brian Strong, Amalie Tuffin, Sue Wilson, and Bob Winstead.

Exclusives: none

Notes: The fifth Falls Lake Spring Bird Count was held on April 29, 2008 under mostly sunny skies and cool temperatures, 48–64°F. Our second-highest total of 16 observers found our second-best total of 115 species, above our five-year average of 109. We ended up with 5,209 total individuals counted. Wow! That seems low without 30,000 gulls!

Table 2 Falls Lake Spring Counts

Year	Total sp	Total Individuals	Participants
2004	100	1897	7
2005	99	2899	7
2006	112	4083	13
2007	120	5281	19
2008	115	5209	16
Mean	109.2	3873.8	12.4

First records: A well-documented and photographed Common Tern on a buoy at Ledge Rock Boat Ramp; a female Red-breasted Merganser at Highway 50 boat ramp and spillway, which lingered for weeks; an Anhinga circling over Beaverdam Lake (with several seen this spring, already this is the year to search for a nest attempt!); two American Black Ducks at the Rollingview fishing pier.

Second count records: Green Heron at Beaverdam Lake; Herring Gull seen from Sandling swim beach; two parties finding Veery at Blue Jay Point and near the dam; Kentucky Warbler and Northern Waterthrush both singing along Lick Creek.

Misses: Yellow-billed Cuckoo, Eastern Screech-Owl, and both *Accipiters*.

Many thanks to everyone who volunteered to count!
 Brian Bockhahn

Kerr Lake—count date 30 April, 129 species, 4,384 individuals, 14 participants, 51.50 party-hours.

Weather: Low 44 °F, high 67 °F; sunny.

Compiler: Brian Bockhahn (cbockhahn4@earthlink.net)

Participants: Brian Bockhahn, Adam D’Onofrio, Bryce and Lori Fleming, Joe Foster, Jerry Klingenberg, David Lenat, Fred Lobdell, Grace McCrowell, Harry and Sandra Shoffner, Tricia Trice, Clyde Smith, and Deck Stapleton

Exclusives: White-winged Scoter, Horned Lark

Notes: The fifth Kerr Lake Spring Bird Count was held on April 30, 2008 under mostly sunny skies and cool temperatures, 44–67 °F degrees. We had a record high 14 participants finding a record high 129 species!

Table 3 Kerr Lake Spring Counts

Year	Total sp	Total Individuals	Participants
2004	111	2209	4
2005	117	3671	7
2006	118	3852	9
2007	124	4979	10
2008	129	4384	14
Average	119.8	3819	8.8

New to spring checklist: a pair of Buffleheads and an Eared Grebe coming into breeding plumage at Henderson Point; a Horned Grebe at County Line and a Pied-billed Grebe in the same area for a three-grebe spring count!; White-winged Scoter at Palmer Point, the same adult female that was there on the CBC?; Forster's Tern at North Bend Park; Cape May Warbler singing at Nutbush Campground; Blackburnian Warbler singing at Liberty Hill parking area near the dam; a flock of ten Pine Siskins in some willows at Kimball Point and a single Purple Finch at County Line.

New to spring count: Single Anhinga soaring on thermals over North Bend park and then flying north; Red-breasted Nuthatch pushed out along Liberty Hill nature trail, and a single Gray-cheeked Thrush in Henderson Point area.

Second records: Red-breasted Mergansers from three areas: Kimball Point, Henderson Point, and below the dam; Yellow-bellied Sapsucker at Eagle Point; Green Heron at Henderson Point; Northern Harrier at North Bend Park and Dick Cross, possibly the same birds; American Kestrel around Palmer Springs (breeding somewhere?); Veery in area 9, and a Worm-eating Warbler at Henderson Point.

Misses: With our total we actually had several misses including Eastern Wood-Pewee, House Wren, Eastern Screech-Owl (that's four of five missed, where are they breeding up here?), Swainson's Thrush, Blackpoll Warbler, and Song Sparrow.

Many thanks to everyone who volunteered to count!

Brian Bockhahn

Raven Rock State Park—count date 26 April, 109 species, 3,033 individuals, 11 participants, 43.50 party-hours.

Weather: Temperature 59–86 °F.; Wind variable, 0–13 mph.; A.M. clear; P.M. partly cloudy.

Compiler: Paul C. Hart (Paul.Hart@ncmail.net)

Participants: Peyton Armstrong, Paul Hart, Tom Howard, Bobby Lutfy, Karin Reese, Kevin Reese, Mitch Reese, Larry Rose, Sarah Stevens, Erik Thomas, Amber Williams.

Exclusives: none

Notes: Participation was lower than average and a low number of transient birds was seen. The migration was in a definite lull on count day.

The spring migration here seemed a bit late this year, as transients were seen on into mid-May (six species of transient warblers were observed on May 13 as opposed to only one transient warbler species seen on count day).

Paul C. Hart

Coast

Onslow County—count date 26 April, 142 species, 6,087 individuals, 22 participants, 53.00 party-hours.

Weather: Mostly sunny with light southerly winds, temperature mid-50s to mid-70s °F.

Compiler: Andy Webb (jwebb3@ec.rr.com)

Participants: Clancy Ballenger, Craig Black, Sam Bland, Rich and Susan Boyd, Megan English, Al Gamache, Chad Garber, Buddy Garrett, Barbara Gould, Gilbert S. Grant, Bob Holmes, Lindsey Jenkins, Jim and Laura O'Donnell Sr., Daniel Payne, Steve Shaffer, Patrick Shaffner, Mark Shields, Dr. Cameron Smith, Bruce Smithson, John Stuebe, Tim Trott, Andy Webb

Exclusives: American Wigeon, Northern Shoveler, Northern Gannet, Brown Pelican, Snowy Egret, Tricolored Heron, Cattle Egret, White Ibis, Glossy Ibis, Common Moorhen, Black-bellied Plover, Wilson's Plover, Piping Plover, American Oystercatcher, Black-necked Stilt, Willet, Sanderling, Laughing Gull, Royal Tern, Sandwich Tern, Least Tern, Black Tern, Black Skimmer, Marsh Wren, Seaside Sparrow, Painted Bunting, Boat-tailed Grackle

Notes: This was the thirteenth year for the Onslow County Spring Migration Count and the earliest date it has been held. There were 12 count parties with 22 participants. The total species number was 142, which is down from the average of 151.

New species for the count: On a high note, we had the first ever Eared Grebe, found by Jim and Laura O'Donnell at the waste water treatment plant (the bird had been there over winter), and a Song Sparrow, found by Rich and Susan Boyd in Hoffman Forest.

Some interesting observations include: Five parties recorded White-throated Sparrow, and this is only the fourth year they have been reported. There were a couple of high-count species such as Turkey Vulture and Chuck-will's-widow, but these do not appear to be significantly high.

Significant misses include: Clapper Rail, Semipalmated Plover, Whimbrel, Ruddy Turnstone, Red Knot, Semipalmated Sandpiper, Dunlin, and Short-billed Dowitcher. One count party did not submit a count list, so our data are incomplete and finalized as such.

Andy Webb

Table 4. 2008 spring counts in North Carolina

Date	Transylvania 5/3	Balsam Mts 5/17	Henderson 5/10	Buncunbe 5/11	Catawba 5/10	Forsyth 5/3	Greensboro 5/5	Southern Pines 4/27	Chapel Hill 5/3	Jordan Lake 5/4	Durham 4/27	Wake 5/10	Falls Lake 4/29	Kerr Lake 4/30	Raven Rock 4/26	Onslow 4/26	total birds	birds per party hour		
																		mountains	piedmont	coastal
Canada Goose	155	2	67	119	50		429	129	326	170	220	182	122	130	73	49	2223	1.59	2.04	0.92
Mute Swan							1	7	2			2					12	0.00	0.01	0.00
Wood Duck	2		5	4	11	12	22	7	28	27	58	6	27	22	20	36	287	0.05	0.27	0.68
American Wigeon																1	1	0.00	0.00	0.02
American Black Duck						3							2			13	18	0.00	0.01	0.25
Mallard	10		56	93	14	108	167	72	90	23	33	71	15	17	28	26	823	0.74	0.71	0.49
Blue-winged Teal						3	1				1					5	10	0.00	0.01	0.09
Northern Shoveler																3	3	0.00	0.00	0.06
Ring-necked Duck							2			1						2	5	0.00	0.00	0.04
Greater Scaup											2						2	0.00	0.00	0.00
Lesser Scaup								10									10	0.00	0.01	0.00
Scaup sp.											9						9	0.00	0.01	0.00
White-winged Scoter														1			1	0.00	0.00	0.00
Bufflehead	1													2			3	0.00	0.00	0.00
Hooded Merganser							1		cw	5	2						8	0.00	0.01	0.00
Red-breasted Merganser								7		1			1	9			18	0.00	0.02	0.00
Ruddy Duck							cw	5			5	3				49	62	0.00	0.01	0.92
Ruffed Grouse		4		2													7	0.03	0.00	0.00
Wild Turkey	15	3	3	26	1		3	1	3	4	17		6	8	3	3	96	0.22	0.05	0.06
Northern Bobwhite			2	3	1	3	5	5		2	1			3	2	9	36	0.02	0.02	0.17
Common Loon								1						12		4	17	0.00	0.01	0.08

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines		Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
								mountains	coastal										mountains	coastal	coastal
Pied-billed Grebe	1					3		1	1								1	9	0.00	0.01	0.02
Horned Grebe																		1	0.00	0.00	0.00
Eared Grebe																		1	2.00	0.00	0.00
Northern Gannet																		11	11.00	0.00	0.21
Brown Pelican																		229	229.00	0.00	4.32
Double-crested Cormorant	5				14	9	35	24	290	318	687	45	178	227	5	96	1933	0.02	2.04	1.81	
Anhinga													1	1	1	1	4	0.00	0.00	0.02	
American Bittern												1					1	0.00	0.00	0.00	
Great Blue Heron	9		1	6	19		91	12	227	266	114	35	70	49	3	6	908	0.07	0.99	0.11	
Great Egret			1									2			1	12	17	0.00	0.00	0.23	
Snowy Egret																	11	11.00	0.00	0.21	
Little Blue Heron													1				2	3.00	0.00	0.04	
Tricolored Heron																	1	1.00	0.00	0.02	
Cattle Egret																	9	9.00	0.00	0.17	
Green Heron	2		5	2	1	9	7	6	11	6	8	1	1	1	5	6	71	0.04	0.06	0.11	
Black-crowned Night- Heron												1					1	0.00	0.00	0.00	
Yellow-crowned Night- Heron						8	3		7								18	0.00	0.02	0.00	
White Ibis																	1	1.00	0.00	0.02	
Glossy Ibis																	1	1.00	0.00	0.02	
Black Vulture	1		19	4	22	8	15	5	81	85	25	1	44	38	1	2	351	0.11	0.36	0.04	
Turkey Vulture	44	29	29	52	50	43	42	22	126	170	54	24	94	80	79	126	1064	0.71	0.87	2.38	
Osprey					9	1	6	2	12	30	15	4	32	17	2	13	143	0.00	0.14	0.25	
Bald Eagle		2			3		3		25	29	9	7	27	7	1		113	0.01	0.12	0.00	

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Northern Harrier	1		1														4	0.01	0.00	0.00
Sharp-shinned Hawk					2	2			1		1	1			1		8	0.00	0.01	0.00
Cooper's Hawk	1	2	1	3	6	4	5	3	4	3	1	2		1	2		38	0.03	0.03	0.00
<i>Accipiter</i> sp.															1		1	0.00	0.00	0.00
Red-shouldered Hawk	5	1	8	1	7	11	24	15	25	23	11	8	15	3	13	8	178	0.07	0.17	0.15
Broad-winged Hawk	2	9	2	6	5	1	8	4	4		2	2	2		2		49	0.09	0.03	0.00
Red-tailed Hawk	6	1	12	5	10	17	25	3	23	19	9	13	9	13	8	6	179	0.11	0.17	0.11
<i>Buteo</i> sp.										2							2	0.00	0.00	0.00
American Kestrel				1	1	1	4	4				3		1			15	0.00	0.02	0.00
Peregrine Falcon		1															1	0.00	0.00	0.00
King Rail									1								1	0.00	0.00	0.00
Sora						1										1	2	0.00	0.00	0.02
Common Moorhen																1	1	0.00	0.00	0.02
American Coot	3		1	1		1				7						4	17	0.02	0.01	0.08
Black-bellied Plover																28	28	0.00	0.00	0.53
Wilson's Plover																5	5	0.00	0.00	0.09
Semipalmated Plover				1													1	0.00	0.00	0.00
Piping Plover																3	3	0.00	0.00	0.06
Killdeer	7		15	13	22	21	46	29	25	29	18	4	10	40	38	52	369	0.16	0.31	0.98
American Oystercatcher																2	2	0.00	0.00	0.04
Black-necked Stilt																2	2	0.00	0.00	0.04
Spotted Sandpiper	4		5	7	12	37	20	16	6	5	10	34	8	23	3	4	194	0.07	0.19	0.08
Solitary Sandpiper	1		15	2	2	76	17	11	3	8	8	13	3	12			171	0.08	0.17	0.00
Greater Yellowlegs								1				1		6	1	7	16	0.00	0.01	0.13
Willet																28	28	0.00	0.00	0.53

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Lesser Yellowlegs			32			2	2				5	1		23	1	18	84	0.15	0.04	0.34
Sanderling																77	77	0.00	0.00	1.45
Least Sandpiper			3	2		8	4					4				29	50	0.02	0.02	0.55
Pectoral Sandpiper					6												6	0.00	0.01	0.00
Dunlin										1							1	0.00	0.00	0.00
<i>Calidris</i> sp.																6	6	0.00	0.00	0.11
Short-billed Dowitcher						3											3	0.00	0.00	0.00
<i>Limnodromus</i> sp.																5	5	0.00	0.00	0.00
Wilson's Snipe			2			2											4	0.01	0.00	0.00
American Woodcock		2									1						3	0.01	0.00	0.00
Laughing Gull																1368	1368	0.00	0.00	25.81
Bonaparte's Gull							1			2			4	4		6	17	0.00	0.01	0.11
Ring-billed Gull					12	77	94	18	58	257	202	4	1018	84	1	142	1967	0.00	2.03	2.68
Herring Gull											1		1			52	54	0.00	0.00	0.98
Least Tern																13	13	0.00	0.00	0.25
Caspian Tern				1			1										6	0.00	0.01	0.00
Black Tern																8	8	0.00	0.00	0.15
Common Tern											2		1			95	98	0.00	0.00	1.79
Forster's Tern											3			1		11	15	0.00	0.00	0.21
Royal Tern																128	128	0.00	0.00	2.42
Sandwich Tern																98	98	0.00	0.00	1.85
Black Skimmer																13	13	0.00	0.00	0.25
Rock Pigeon	3		15	7	1	94	98	2	21	7	20	36	15	5	22	45	391	0.12	0.36	0.85
Eurasian Collared-Dove			2		2										3	4	11	0.01	0.01	0.08
Mourning Dove	88	5	54	79	128	133	151	208	208	171	127	70	126	103	159	200	2010	1.05	1.76	3.77
Yellow-billed Cuckoo	1		1		2		2		1	11	4	4		4		1	31	0.01	0.03	0.02

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Eastern Screech-Owl						1		2	1						2	5	15	0.00	0.01	0.09
Great Horned Owl	1	1				1		1	3		1	1	6	3		3	21	0.01	0.02	0.06
Barred Owl	1	3			1	2	4	3	20	11	8	4	2	7	2		68	0.02	0.07	0.00
Common Nighthawk					2	1	2	9								1	15	0.00	0.02	0.02
Chuck-will's-widow					5			38	1	6		2	2	2	3	50	109	0.00	0.07	0.94
Whip-poor-will	2				1		1	17	7	16	2		3	5		8	62	0.01	0.06	0.15
Chimney Swift	32	41	58	64	38	109	551	67	106	55	27	38	30	6	63	9	1294	0.90	1.21	0.17
Ruby-throated Hummingbird	34	12	4	12	12	16	15	17	29	26	28	3	18	4	6	2	238	0.29	0.19	0.04
Belted Kingfisher	4	1	5	3	9	6	12	9	9	6	6	10	8	9	2	3	102	0.06	0.10	0.06
Red-headed Woodpecker							8	21	25	25	25	4	17	8		13	146	0.00	0.15	0.25
Red-bellied Woodpecker	24	5	34	24	31	76	88	68	161	127	92	71	30	34	35	31	931	0.40	0.90	0.58
Yellow-bellied Sapsucker		1		1	1						1			1			5	0.01	0.00	0.00
Downy Woodpecker	15	6	12	20	23	26	35	15	53	26	27	21	17	15	6	8	325	0.25	0.29	0.15
Hairy Woodpecker	5	6	7	6	1	2	5	4	11	12	7	5	6	6	1	1	85	0.11	0.07	0.02
Red-cockaded Woodpecker								4								13	17	0.00	0.00	0.25
Northern Flicker	7	2	5	8	3	9	22	18	15	15	18	6	17	5	4	11	165	0.10	0.15	0.21
Pileated Woodpecker	10	7	8	16	9		4	18	18	29	11	4	13	18	9	17	191	0.19	0.15	0.32
Eastern Wood-Pewee	1	10	9	17	7	3	2	10	14	34	2	6	5		10	21	151	0.17	0.10	0.40
Acadian Flycatcher	1	2	7	5	2	1	7	3	42	21	7	13	1	8	3	2	125	0.07	0.12	0.04
Alder Flycatcher		1															1	0.00	0.00	0.00
Willow Flycatcher	1		14														15	0.07	0.00	0.00

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Least Flycatcher		7															7	0.03	0.00	0.00
Eastern Phoebe	27	10	30	49	20	30	20	19	50	46	34	20	27	13	22		417	0.54	0.33	0.00
Great Crested Flycatcher	9		11	8	17	8	36	95	71	126	59	35	43	63	39	109	729	0.13	0.66	2.06
Eastern Kingbird	4		15	18	41	5	31	84	34	82	10	53	22	55	31	29	514	0.17	0.50	0.55
Loggerhead Shrike					1			7				4			5		17	0.00	0.02	0.00
White-eyed Vireo	12		13	3	4	3	8	58	40	55	86	9	19	62	27	35	434	0.13	0.41	0.66
Yellow-throated Vireo			12	14		1	3	14	8	18	18		7	15	7	4	121	0.12	0.10	0.08
Blue-headed Vireo	17	195	1	36	8	3	1	3	2	12	13		11	3	1		306	1.15	0.06	0.00
Warbling Vireo			1	3		1											5	0.02	0.00	0.00
Philadelphia Vireo												1					1	0.00	0.00	0.00
Red-eyed Vireo	25	68	43	129	92	26	95	45	251	239	208	78	162	212	46	17	1736	1.23	1.62	0.32
Blue Jay	63	28	51	81	69	118	129	79	167	132	112	50	36	62	77	47	1301	1.03	1.15	0.89
American Crow	275	34	84	194	100	137	205	138	308	239	149	77	142	162	121	72	2437	2.72	1.98	1.36
Fish Crow			1		1	65	20	30	42	33	33	33	98	34	13	16	419	0.00	0.45	0.30
Common Raven	2	6		1		4	2		1								16	0.04	0.01	0.00
Crow sp.															44	5	49	0.00	0.05	0.09
Horned Lark								7							2		9	0.00	0.01	0.00
Purple Martin	34		16	8	42	40	312	52	53	26	36	21	5	38	92	159	934	0.27	0.80	3.00
Tree Swallow	126	1	23	33	8	23	11		13	18	16	3	29	17		2	323	0.85	0.15	0.04
Northern Rough-winged Swallow	26	2	50	32	34	56	31	27	35	78	14	21	44	50	35	36	571	0.51	0.47	0.68
Bank Swallow								5		1	2						8	0.00	0.01	0.00
Cliff Swallow					126	50			1	173	7	24	55	18			454	0.00	0.50	0.00
Barn Swallow	98	2	86	74	28	113	100	35	47	100	52	61	25	33	65	154	1073	1.20	0.73	2.91
Carolina Chickadee	89	32	46	80	54	83	135	57	272	175	174	112	112	77	32	38	1568	1.14	1.43	0.72

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Black-capped Chickadee		22															22	0.10	0.00	0.00
<i>Poecile</i> sp.		3															3	0.01	0.00	0.00
Tufted Titmouse	77	35	50	94	58	127	113	89	367	274	182	97	147	99	35	65	1909	1.18	1.77	1.23
Red-breasted Nuthatch	5	29		1				1	1		1			1			39	0.16	0.00	0.00
White-breasted Nuthatch	23	11	3	16	6	16	29	10	44	18	10	17	17	11	2	2	235	0.25	0.20	0.04
Brown-headed Nuthatch				4	6	28	34	68	72	69	21	19	62	41	10	50	484	0.02	0.48	0.94
Brown Creeper	2	31		1													34	0.16	0.00	0.00
Carolina Wren	64	11	66	115	50	79	259	96	415	205	161	127	90	61	57	78	1934	1.18	1.78	1.47
House Wren	41	2	11	32	6	20	24	3	58	4	10	4	3		1		219	0.40	0.15	0.00
Winter Wren	5	22		1													28	0.13	0.00	0.00
Marsh Wren																3	3	0.00	0.00	0.06
Golden-crowned Kinglet	12	113															125	0.58	0.00	0.00
Ruby-crowned Kinglet	1	2				2	8	3	3	2	8	1	6	6	2		44	0.01	0.05	0.00
Blue-gray Gnatcatcher	9	6	32	25	27	62	72	107	338	243	350	71	187	149	86	87	1851	0.33	1.88	1.64
Eastern Bluebird	70		44	58	93	80	118	114	273	160	94	48	112	117	88	38	1507	0.80	1.44	0.72
Veery		79	1	10		7	3	1			5	1	2	1	1		111	0.42	0.02	0.00
Gray-cheeked Thrush							1							1			2	0.00	0.00	0.00
Swainson's Thrush	1	3	2	1	3	18	8		6	3	1	4	2				52	0.03	0.05	0.00
Hermit Thrush		5	1														6	0.03	0.00	0.00
Wood Thrush	21	20	18	36	11	25	39	15	65	61	56	26	26	44	17	8	488	0.44	0.43	0.15
American Robin	171	162	106	155	96	332	394	36	234	68	104	92	24	30	79	18	2101	2.75	1.66	0.34
Gray Catbird	29	52	24	49	17	45	102	51	77	22	35	31	22	16	10	21	603	0.71	0.48	0.40

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Northern Mockingbird	45		61	61	109	65	136	103	195	107	69	48	34	63	112	99	1307	0.77	1.16	1.87
Brown Thrasher	37	2	19	26	27	31	59	43	67	50	18	21	10	32	27	27	496	0.39	0.43	0.51
European Starling	128	4	128	90	119	171	298	59	157	65	129	118	51	39	126	179	1861	1.62	1.48	3.38
American Pipit											6						6	0.00	0.00	0.00
Cedar Waxwing	6	31	200	170	185	228	274	23	102	10		118	34	13	15		1409	1.88	1.11	0.00
Blue-winged Warbler						1	cw		2		6						9	0.00	0.01	0.00
Tennessee Warbler							1										1	0.00	0.00	0.00
Orange-crowned Warbler						1											1	0.00	0.00	0.00
Nashville Warbler						1											1	0.00	0.00	0.00
Northern Parula	25	24	14	4	9	34	44	25	134	104	116	19	42	25	20	27	666	0.31	0.64	0.51
Yellow Warbler	6		10	17	1	12	8	4	8	10	5	4	5	3			93	0.15	0.07	0.00
Chestnut-sided Warbler	4	330	4	24	1	4	5		2	3		2					379	1.67	0.02	0.00
Magnolia Warbler			3	5	1	1	1	1	1	2		2	1				17	0.04	0.01	0.00
Cape May Warbler	12	1	7	4	6	9	2		4			1		1			47	0.11	0.03	0.00
Black-throated Blue Warbler	4	84	3	55	11	51	84	4	78	30	10	4	13	8			439	0.68	0.33	0.00
Yellow-rumped Warbler	2		1	7	2	90	79	44	93	76	82	6	136	198	22	1	839	0.05	0.92	0.02
Black-throated Green Warbler	7	93	15	52	13	8	9	2	5	1	1		3	2			211	0.77	0.05	0.00
Blackburnian Warbler	2	26	5	20	1	1	cw							1			56	0.25	0.00	0.00
Yellow-throated Warbler	6		1	4	1	2		28	22	76	52	11	22	49	20	36	330	0.05	0.31	0.68
Pine Warbler	1		1		31	12	29	54	164	209	73	52	130	76	31	65	928	0.01	0.96	1.23
Prairie Warbler				1	20	1	8	39	37	66	46	2	33	42	29	35	359	0.00	0.36	0.66
Palm Warbler	5					1	cw			3			1	5			15	0.02	0.01	0.00

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party hour			
																	total birds	mountains	piedmont	coastal
Bay-breasted Warbler		2		2		1											5	0.02	0.00	0.00
Blackpoll Warbler	1	1	17	5	12	2	2		3	6		4					53	0.11	0.03	0.00
Cerulean Warbler	1			6													7	0.03	0.00	0.00
Black-and-white Warbler	9	49	9	72	6	11	7	23	24	28	9	3	22	16	24	4	316	0.64	0.19	0.08
American Redstart	2	7	46	43	3	3	36	1	31	15	10	11	1	1	4		214	0.45	0.13	0.00
Prothonotary Warbler					1	3	9	7	49	40	35	2	6	18	18	39	227	0.00	0.21	0.74
Worm-eating Warbler	1	2	6	14	4	1	cw	1	1	2	2			1		18	53	0.11	0.01	0.34
Swainson's Warbler	1							1							1	8	11	0.00	0.00	0.15
Ovenbird	13	84	12	97	6	9	20	32	104	169	106	29	71	106	26	19	903	0.95	0.75	0.36
Northern Waterthrush			12	1		1	4		4		7		2				31	0.06	0.02	0.00
Louisiana Waterthrush	6		3	1	4		4	4	11	6	13	4	6	1	8	1	72	0.05	0.07	0.02
Kentucky Warbler	1			2	1		1	1	2	4	9		3	1	3	1	29	0.01	0.03	0.02
Common Yellowthroat	26	45	34	14	28	30	86	39	118	86	122	17	43	44	11	31	774	0.55	0.69	0.58
Hooded Warbler	27	36	13	58	4	4	5	18	46	38	30	2	25	23	15	12	356	0.62	0.23	0.23
Wilson's Warbler				1													1	0.00	0.00	0.00
Canada Warbler	1	83		28	3	1	1										117	0.52	0.01	0.00
Yellow-breasted Chat	4		15		21	1	13	13	41	60	50	7	23	39	9	14	310	0.09	0.31	0.26
Summer Tanager					18	2	7	27	106	164	62	31	58	62	31	34	602	0.00	0.63	0.64
Scarlet Tanager	3	14	8	51	21	20	24	2	40	49	18	14	17	21	7		309	0.35	0.26	0.00
Eastern Towhee	112	252	101	128	40	100	117	94	283	103	148	63	81	44	39	61	1766	2.74	1.24	1.15
Bachman's Sparrow							5									4	9	0.00	0.01	0.08
Chipping Sparrow	41	5	13	38	38	32	55	144	248	175	98	25	132	146	72	36	1298	0.45	1.30	0.68
Field Sparrow	16	6	20	12	29	18	22	6	21	12	50	6	13	21	15		267	0.25	0.24	0.00
Savannah Sparrow			3			5		6	7	3	1	3	2	12	14	16	72	0.01	0.06	0.30
Grasshopper Sparrow			2		12	6	4	7	7		8	5		1	2		54	0.01	0.06	0.00

	Transylvania	Balsam Mts	Henderson	Buncunbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Seaside Sparrow																3	3	0.00	0.00	0.06
<i>Ammodramus</i> sp.																9	6	0.00	0.00	0.11
Song Sparrow	168	41	129	199	7	51	83	3	46	1	11	1	1		1	1	743	2.48	0.23	0.02
Lincoln's Sparrow											1						1	0.00	0.00	0.00
Swamp Sparrow	1			1			5	1	6		6		3	3	1		27	0.01	0.03	0.00
White-throated Sparrow	14	1	8	2	1	61	34	54	32	9	127	8	36	62	35	18	502	0.12	0.51	0.34
White-crowned Sparrow	1											2					3	0.00	0.00	0.00
Dark-eyed Junco sparrow sp.	18	405	3	32													458	2.12	0.00	0.00
Northern Cardinal	144	11	102	152	128	227	341	297	666	317	328	192	202	136	117	176	3536	1.89	3.28	3.32
Rose-breasted Grosbeak	12	47	4	30	19	7	6	2	12	3		2	4	1			149	0.43	0.06	0.00
Blue Grosbeak	4		4		10	9	14	31	37	54	34	23	11	20	20	23	294	0.04	0.29	0.43
Indigo Bunting	42	41	86	100	62	57	88	36	162	169	149	44	23	48	31	23	1161	1.24	0.97	0.43
Painted Bunting																15	15	0.00	0.00	0.28
Bobolink	18		55	48			3	50	2	18		51			7	1	253	0.56	0.15	0.02
Red-winged Blackbird	192		60	85	11	52	68	71	86	49	68	28	11	50	39	169	1039	1.56	0.59	3.19
Eastern Meadowlark	28		22	11	33	12	19	52	12	14	26	14	1	28	24	29	325	0.28	0.26	0.55
Rusty Blackbird						12											12	0.00	0.01	0.00
Common Grackle	107		96	69	267	329	364	112	243	220	184	110	79	114	229	164	2687	1.26	2.50	3.09
Boat-tailed Grackle																71	71	0.00	0.00	1.34
Brown-headed Cowbird	21	1	23	23	43	87	96	51	165	112	121	40	62	56	33	48	982	0.31	0.96	0.91
Blackbird sp.										2							2	0.00	0.00	0.00
Orchard Oriole	2		12	9	8	18	13	42	14	34	18	13	2	24	17	34	260	0.11	0.23	0.64
Baltimore Oriole	1		2	11	4	18	10		6	1	2	1					56	0.06	0.05	0.00

	Transylvania	Balsam Mts	Henderson	Buncumbe	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total birds	birds per party hour		
																		mountains	piedmont	coastal
Purple Finch					1			1						1			3	0.00	0.00	0.00
House Finch	25	2	47	33	57	45	87	67	254	37	38	79	47	17	27	9	871	0.49	0.84	0.17
Pine Siskin	49	28	2					2	9					10			100	0.37	0.02	0.00
American Goldfinch	181	36	89	110	93	179	321	97	445	262	159	81	162	114	44	1	2374	1.92	2.18	0.02
House Sparrow	10		25	49	33	17	26	22	37	29	44	16	1	8	35	39	391	0.39	0.30	0.74
total species	119	86	114	116	118	129	127	127	127	121	129	121	115	129	109	142	229			
total individuals	3437	2946	2916	4054	3140	4716	7466	4154	9924	7891	6718	3252	5209	4384	3033	6087	79327			
# participants	22	18	17	24	13	52	24	22	54	47	16	29	17	14	11	22	402			
total party hours	45	68	44.7	58.5	84	87.75	82.25	60.4	147.3	140.5	78.25	53	70.75	51.5	43.5	53	1168.4			
total party miles	225	190	185	272.3	215	155.5	275.45	458.5	228	311.9	98.1	91	162.3	178.5	328	434	3808.6			
hours on foot	17	41.5	25	19.5	42	84.25	66	30	121.5	104	64.25	47	59.25	51.5	25.5	20.5	818.75			
hours by car	28	29.5	19.7	39	42	3.5	16.25	30.4	16.5	24.5	14	6	11.5	14	18	28.75	341.6			
hours by bicycle									1.5								1.5			
hours canoe/kayak/boat									7.8	12						3.75	23.55			
hours ATV																	0			
miles on foot	13	32.5	18.8	13.5	33	66.5	41.25	17.5	88	77.55	51.1	37	52.4	32.5	15.5	24.3	614.4			
miles by car	212	154	166	259.8	182	88	234.2	441	125	224.85	47	54	109.9	146	312.5	406.4	3162.7			
miles by bicycle									7								7			
miles canoe/kayak/boat									8	9.5						3	20.5			
miles by ATV																	0			
hours owling					3	4		0.25	4	3.75	2	2	2.3	3.75	0.25	4	29.3			
miles owling					18	1			10.6	24			0.75	3.25	0.25	28	85.85			
feeder hours	40							13.75					5				58.75			