Breeding Bird Atlas of Mecklenburg County, NC

Written by Donald W. Seriff

Breeding Bird Atlas of Mecklenburg County, NC

Written by Donald W. Seriff
Illustrations and Layout Design by Leigh Anne Carter

Copyright © 2017 Artwork copyright © 2017 Leigh Anne Carter Photographs used with permission and photographers retain copyright of photos All rights reserved. This book, or parts thereof, may not be reproduced in any form without permission of the copyright holder(s). Published in partnership with:

The Mecklenburg Audubon Society

and The Mecklenburg County Park and Recreation Department

Our Partners



Mecklenburg Audubon Society

The Mecklenburg Audubon Society was founded in 1940. The Society has been a leader in education and conservation in the Charlotte region for over 75 years.



Mecklenburg County Park and Recreation Department

The Mecklenburg County Park and Recreation Department was established in 1974. The Department manages over 22,000 acres of parks, greenways, and nature preserves in the county.



United States Geological Survey

Learn about Breeding Bird Atlas Explorer at: http://www.pwrc.usgs.gov/bba/

Table of Contents

Breeding Bird Atlas	1	kea-neaded woodpecker	55	European Starling	96
Results	10	Red-bellied Woodpecker	56	Cedar Waxwing	97
Species Accounts	15	Downy Woodpecker	57	Ovenbird	98
		Hairy Woodpecker	58	Worm-eating Warbler	99
Canada Goose	18	Northern Flicker	59	Louisiana Waterthrush	100
Wood Duck	19	Pileated Woodpecker	60	Black-and-white Warbler	10
Mallard	20	American Kestrel	61	Prothonotary Warbler	102
Hooded Merganser	21	Peregrine Falcon	62	Swainson's Warbler	10
Northern Bobwhite	22	Eastern Wood-Pewee	63	Kentucky Warbler	10
Wild Turkey	23	Acadian Flycatcher	64	Common Yellowthroat	10.
Pied-billed Grebe	24	Willow Flycatcher	65	Hooded Warbler	10
Great Blue Heron	25	Eastern Phoebe	66	American Redstart	10
Green Heron	26	Great Crested Flycatcher	67	Northern Parula	10
Yellow-crowned Night-Heron	27	Eastern Kingbird	68	Yellow Warbler	109
Black Vulture	28	Loggerhead Shrike	69	Pine Warbler	110
Turkey Vulture	29	White-eyed Vireo	70	Yellow-throated Warbler	11
Osprey	30	Yellow-throated Vireo	71	Prairie Warbler	112
Mississippi Kite	31	Red-eyed Vireo	72	Yellow-breasted Chat	11.
Bald Eagle		Blue Jay	73	Eastern Towhee	114
Sharp-shinned Hawk	33	American Crow	74	Chipping Sparrow	11:
Cooper's Hawk	34	Fish Crow	75	Field Sparrow	110
Red-shouldered Hawk	35	Common Raven	76	Grasshopper Sparrow	11
Broad-winged Hawk	36	Horned Lark	77	Song Sparrow	113
Red-tailed Hawk	37	Purple Martin	78	Summer Tanager	119
Killdeer	38	Tree Swallow	79	Scarlet Tanager	120
Spotted Sandpiper	39	Northern Rough-winged Swallow	80	Northern Cardinal	12
American Woodcock	40	Cliff Swallow		Blue Grosbeak	12
Rock Pigeon	41	Barn Swallow	82	Indigo Bunting	12
Eurasian Collared-Dove	42	Carolina Chickadee	83	Dickcissel	
Mourning Dove	43	Tufted Titmouse	84	Red-winged Blackbird	12
Yellow-billed Cuckoo	44	White-breasted Nuthatch	85	Eastern Meadowlark	12
Barn Owl	45	Brown-headed Nuthatch	86	Common Grackle	12
Eastern Screech-Owl	46	House Wren	87	Brown-headed Cowbird	12
Great Horned Owl	47	Carolina Wren	88	Orchard Oriole	129
Barred Owl	48	Blue-gray Gnatcatcher	89	Baltimore Oriole	130
Common Nighthawk	49	Eastern Bluebird	90	House Finch	13
Chuck-will's-widow	50	Wood Thrush	91	American Goldfinch	13
Eastern Whip-poor-will	51	American Robin	92	House Sparrow	13
Chimney Swift		Gray Catbird	93	•	
Ruby-throated Hummingbird		Brown Thrasher		Appendices	13
Relted Kingfisher		Northern Mackinghird		Credits	

Acknowledgements

The board and members of the Mecklenburg Audubon Society provided funding and encouragement for the Mecklenburg County Breeding Bird Atlas. Former President Jill Palmer played an especially vital role. Club members devoted hundreds of hours in the field collecting much of this data. Thank you to all.

Thanks also to Jim Garges, Director of the Mecklenburg County Park and Recreation Department and Chris Matthews, Nature Preserves and Natural Resources Division, for recognizing the importance of our local biological research efforts and for providing patronage of these projects.

Mark Wimer and Allison Sussman, with the USGS Patuxent Wildlife Research Center, provided critical support by allowing the use of their online data collection portal "BBA Explorer." They helped make the tedious job of data entry and data verification actually fun. Many thanks.

Thank you to Scott Black with Mecklenburg County GIS for preparing our baseline maps.

A special thank you to our five Regional Coordinators without whom this project would not have been possible: Jeff Lemons, Rob Gilson, Tom Sanders, Ron Clark, and Taylor Piephoff.

Additional financial support was provided by:







BREEDING BIRD ATLAS

In Charlotte, in the spring of 1928, William McIlwaine wrote:

"Nesting is the order with the birds to-day. Now the art of nest-finding is vastly more than standing still with eyes squinted and mouth open and your head about to topple off its pedestal. Such is bird identification. To find the nests means that, at times, yes, but also to roam the fields and court the brambles and get over on your head to see up under. And it takes a lot of time. My small boy, aged four, said to me, 'Daddy, I tell you what I don't think is right. A person ought not to be a preacher and a bird man at the same time.' And he was surely right. You cannot do much of both. And I have seen very little of nesting this year."

Despite his lamentation, in just a few short years, McIlwaine had located and recorded detailed information on the nests of more than 50 species of birds in the city of Charlotte.

Mecklenburg County Breeding Bird Atlas (BBA)

A "Breeding Bird Atlas" (BBA) is a study designed to map and monitor the breeding status of birds in a specific geographic region. Atlas projects are implemented by trained biologists with the assistance of "citizen scientist" birders as volunteers. The final product of a BBA is a comprehensive data set and a series of maps illustrating the geographic distribution of each species of breeding bird.

The Mecklenburg County BBA study is a collaboration between the Mecklenburg Audubon Society and the Mecklenburg County Conservation Science Office with vital assistance provided by staff hosting the USGS North American BBA Explorer website. The study is the first county-level BBA ever conducted in the Carolinas. It followed a standardized protocol recommended by the North American Ornithological Atlas Committee (NORAC). The project was officially initiated in 2011 and ended in 2015. The results of the Mecklenburg County Breeding Bird Atlas provide an essential scientific baseline of the status and distribution of the breeding birds of Mecklenburg County—so that future comparisons can be made.

Mecklenburg County is situated at the core of the Carolina Piedmont and lies at the heart of the most rapidly developing urban area in both states. Changes in the breeding status and distribution of birds similar to those documented during this Mecklenburg County study, may be expected to impact adjacent counties or emanate outward from other rapidly developing urban areas in both North and South Carolina.

Some of the results of the Atlas study have been summarized and are presented in table format for easy reference. Individual Atlas maps and species specific findings for each bird species recorded breeding in Mecklenburg County are provided in the Species Accounts section. These Atlas maps graphically illustrate the distribution of each species in the county. Educational handouts summarizing BBA results about "Lost Birds," "Imperiled Breeding Birds," "Vulnerable Breeding Birds," and "New Breeding Birds" in Mecklenburg County are provided in the Appendix.

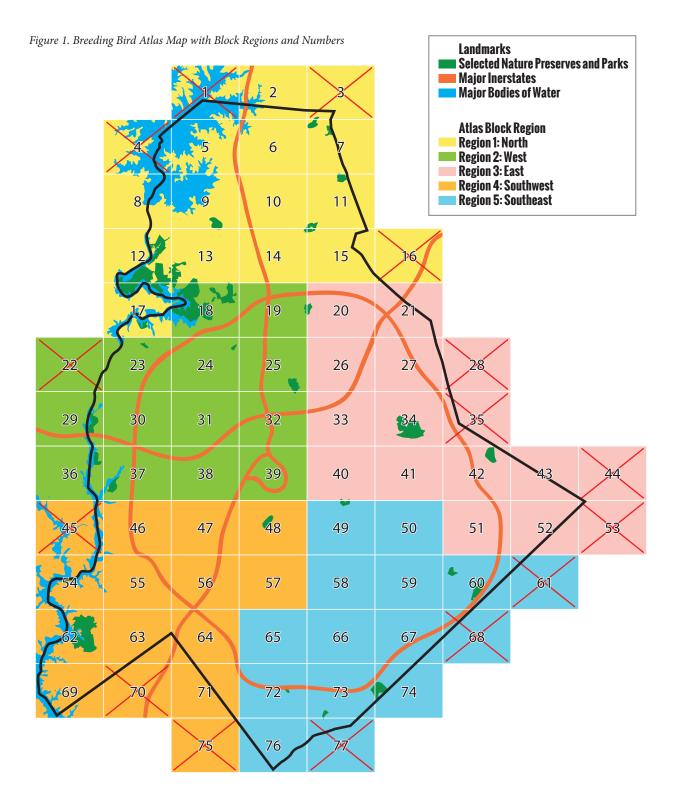
1. Atlas Methods: Methods for conducting breeding bird atlas surveys have been standardized and refined by the



North American Ornithological Atlas Committee. The Mecklenburg County BBA methods largely conformed to established NORAC committee protocols and to protocols recommended and established by the USGS North American BBA Explorer program.

The grid base selected for the survey was the 1:24,000, 7.5 minute, U.S. Geological Survey topographic quadrangle map. It is commonly used as the base map in BBA surveys. Eighteen topographic quadrangles cover portions of Mecklenburg County. A standard mapping grid of one-sixth of a USGS 7.5 minute topographic quadrangle was overlain on a map of Mecklenburg County dividing the county into 77 survey blocks. Each survey block was approximately 10 square miles in extent and each was assigned an individual block number. A total of 62 of the blocks were selected to be surveyed (*Figure 1*). The remaining 15 blocks contained fractions of the county too small to be surveyed.

2. Block Coverage: A "Regional Coordinator" was assigned to each of five survey regions: North, West, East, Southwest, and Southeast. Each Regional Coordinator assigned volunteer observers to manage one or more atlas blocks within their region. These "Blockheads," as they were affectionately called, were responsible for coordinating other volunteers in their block and for fully surveying each block to determine the presence of breeding birds. They reviewed street maps and satellite maps to familiarize themselves with their block in advance of conducting their field work. Blockheads were asked to make a special effort to identify and visit all



undeveloped natural areas within each of their assigned blocks. Volunteers were instructed to never enter private property without prior permission.

The primary goal of each Blockhead was to find as many species of birds breeding within the block as possible. Their secondary goal was to collect the highest level of breeding evidence for each bird species. A grand total of 20 hours of field effort per block was the goal over the entire study period. Evidence of breeding only needed to

be confirmed once for each species, in each survey block, during the study. A range of "Safe Dates" was provided for counting each species in an attempt to insure that lingering migrants were not counted.

A series of training workshops was developed by a Training Coordinator and was offered to interested Atlas volunteers. Each workshop covered the basics of birding ethics, requesting access, safety, pre-planning, and specifics on how to properly collect data and conduct the survey. Each volunteer received a detailed 30-page observer handbook.

Volunteers entered data on field checklist cards and the information was later entered into the Mecklenburg County BBA database on the national "BBA Explorer" web site, hosted by the United States Geological Survey. Breeding data from casual observations and incidental sightings were collected, filed, and later entered online as well. All data were reviewed and verified by both the Regional Coordinators and the Project Coordinator before final acceptance. A significant amount of time was spent on both data verification and on following up on reports of locally rare species to insure that accurate information was properly entered. The data set is available for reference at: http://www.pwrc.usgs.gov/bba/

- *3. Breeding Data:* Volunteers used the following codes to record the various breeding behaviors they detected.
- a) OBSERVED not breeding evidence (used within Safe Dates): Species (male or female) was observed in a block during its breeding season, but no evidence of breeding was seen. Also used for a bird that is not in suitable nesting habitat. This code could be used for a wide range of species "passing through" the block such as vultures or raptors, or a colonial nesting species not at the nesting colony.
- b) POSSIBLE possible breeding evidence (used within Safe Dates): Species (male or female) was seen or heard in suitable nesting habitat during its breeding season.
- c) PROBABLE probable breeding evidence (used within Safe Dates except for "C" which could be used anytime.)
 - P Pair observed in suitable habitat during its breeding season.
 - S Permanent territory presumed through song at same location on at least two occasions seven days or more apart.
 - T Permanent territory presumed through defense of territory (chasing individuals of the same species).
 - C Courtship behavior or copulation. Can use outside Safe Dates (except for ducks). Especially for raptors, woodcock, and hummingbird courtship rituals.
 - N Visiting probable nest-site.
 - A Agitated behavior or anxiety calls from adult.
 - B Nest building by wrens or excavation of holes by woodpeckers.
- d) CONFIRMED confirmed evidence of breeding (could be used outside of Safe Dates).
 - CN Carrying nesting material, such as sticks or other material. Don't use for wrens, crows, or colonial nesting species.
 - NB Nest building at the actual nest-site.

- PE Physiological evidence of breeding (e.g. [brood] patch or egg in oviduct based on bird in hand. Only to be used by experienced bird banders on local birds during the nesting season).
- DD Distraction display or injury feigning.
- UN Used nests or eggshells found.
- PY Precocial young. Flightless young of precocial species restricted to the natal area by dependence on adults or limited ability.
- FL Recently fledged young (either precocial or altricial) incapable of sustained flight, restricted to natal area by dependence on adults or limited mobility.
- ON Occupied nest: adults entering or leaving a nest site in circumstances indicating occupied nest. To be used for nests which are too high (e.g. the tops of trees) or enclosed (e.g. chimneys) for the contents to be seen.
- CF Carrying food: adult carrying food for the young.
- FY Adult feeding recently fledged young.
- FS Adult carrying fecal sac.
- NE Nest with egg(s).
- NY Nest with young seen or heard.

4. Species Maps: Data for each Atlas map were exported from USGS BBA Explorer and reviewed and accessioned using MS Access, MS Excel, and ArcMap (ESRI ArcGIS) software. Each map generated was later enhanced in Adobe Illustrator for easier viewing. Each map uses color to illustrate the highest level of breeding evidence obtained for that species in each of the 62 survey blocks. An Atlas map is included in the species account of each breeding bird.

5. Atlas Results

a) Effort: Surveys were conducted in all 62 target blocks resulting in attainment of 100% coverage. Overall, survey effort (time in the field) dramatically exceeded the established goal of 20 hours per block (1,240 total hours) by a stunning 112.25% (2,631 total hours). Effort was well dispersed in blocks throughout the county and each region exceeded its target effort: North (180%), West (156%), East (228%), Southwest (195%), Southeast (309%). A total of 56 blocks received at least the minimum of 20 hours of effort (*Figure 2*). Seven blocks received less than 20 hours of effort. One volunteer spent over 300 hours surveying a single block and three others spent more than 100 hours each surveying individual blocks.

Nearly 7,000 breeding records were collected and submitted for review. Over 1,500 local breeding records recorded prior to the survey were also collected and compiled. Many of these are shared in the species accounts to help provide historical context.

Over 250 people volunteered their time or provided information for the Atlas project. In addition to field effort, volunteers contributed at least 500 hours of time involved with training, steering committee meetings, data

entry, and other project administration.

b) Breeding Birds Documented: Breeding evidence was obtained for a total of 115 species of birds. There were 105 species with Confirmed breeding as the highest level of evidence and five species had Probable as their highest level of evidence. Five other species had Possible or Observed codes entered as the highest level of breeding evidence. No evidence of breeding was obtained for another four "historic" species that were documented as breeding birds in Mecklenburg County prior to 1990. Species from these last two groups have been included on the "Lost" bird list found in the Appendix. Most blocks surveyed had between 50 and 60 breeding birds documented (*Figure 3*).

Sixty-seven of the 110 breeding species documented with Confirmed or Probable as the highest level of evidence were found in each of the five survey regions, however, this does not necessarily mean that the species is a widespread breeding bird within the county. Evidence of breeding for 43 of the 110 breeding species was documented in four or fewer survey regions. Thirty-nine of these 43 species were thinly distributed across the

county, being found in eight or fewer survey blocks. Atlas maps for each of the 110 breeding birds are provided in the individual species accounts.

- c) Breeding Bird Atlas Findings: Each species of breeding bird recorded in Mecklenburg County was characterized using one of the following metrics and is presented in one of the three charts below (Figures 4, 5, and 6). Note: Possible codes recorded were not included in these findings.
 - Nearly Ubiquitous Probable or Confirmed code recorded in 41–62 survey blocks
 - Widespread: Probable or Confirmed code recorded in 31–40 survey blocks
 - Fairly Widespread: Probable or Confirmed code recorded in 21–30 survey blocks
 - Somewhat Local: Probable or Confirmed code recorded in 10–20 survey blocks
 - Local: Probable or Confirmed code recorded in 4–9 survey blocks
 - Very Local: Probable or Confirmed code recorded in 1–3 survey blocks

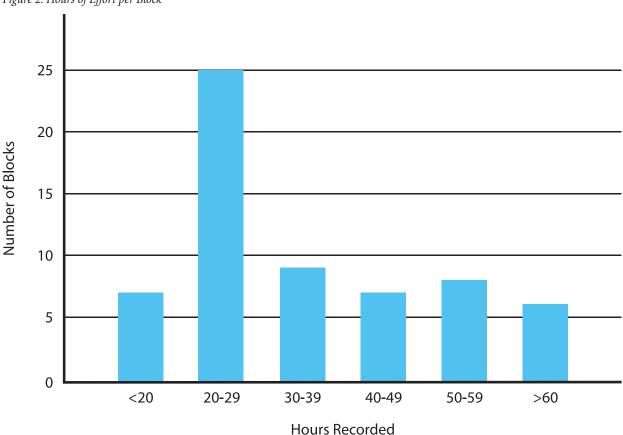


Figure 2. Hours of Effort per Block

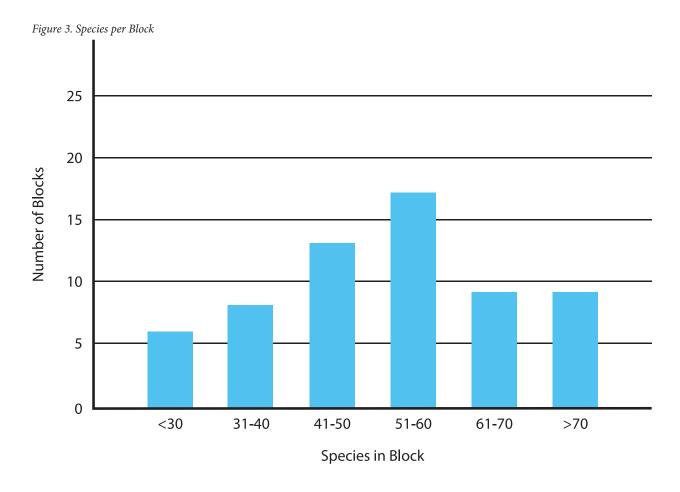


Figure 4. Nearly Ubiquitous and Widespread Breeding Birds

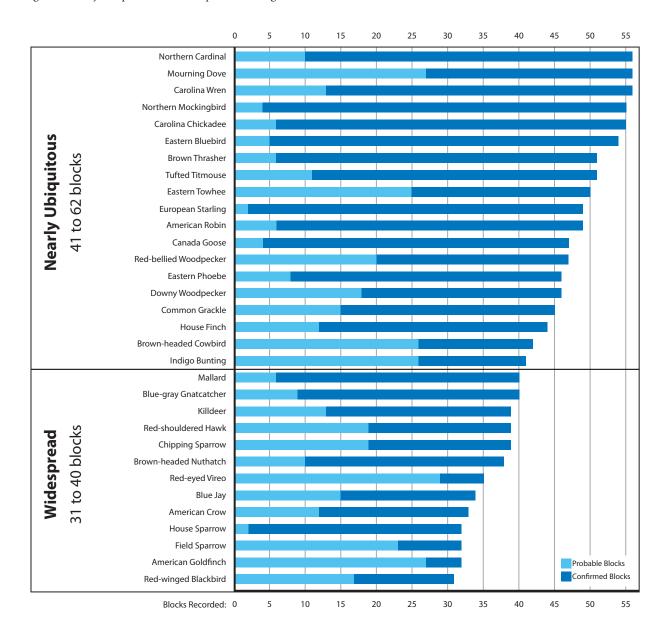
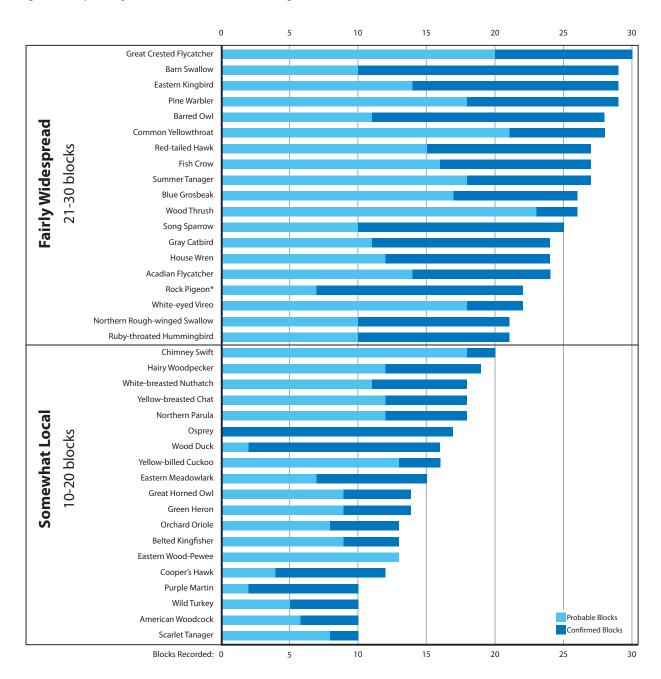
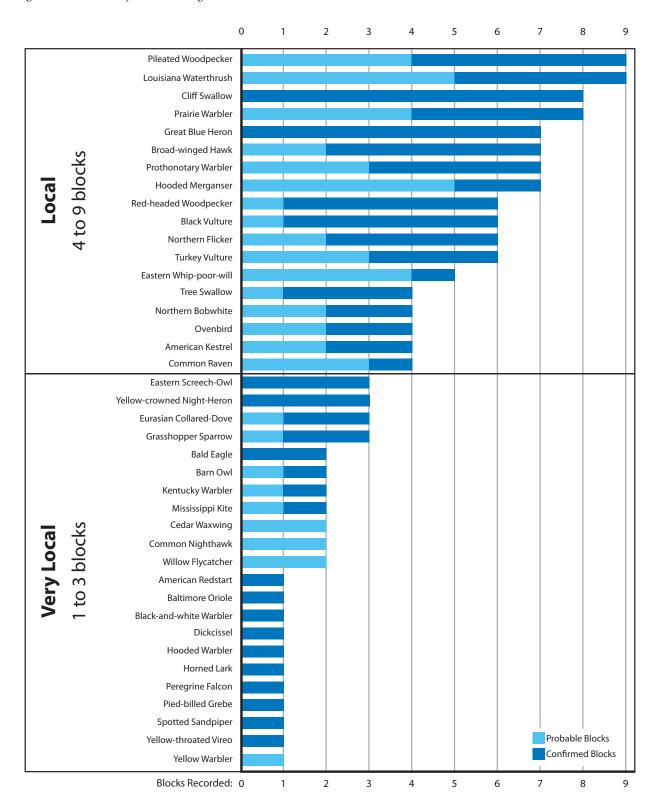


Figure 5. Fairly Widespread and Somewhat Local Breeding Birds



^{*}The presence of Rock Pigeon is believed to be underrepresented by this Atlas survey.

Figure 6. Local and Very Local Breeding Birds



RESULTS

BBA Survey Results

A total of 312 species of birds have been formally documented occurring in Mecklenburg County, NC. A full list with scientific names is included in the Appendix. The large majority (63%) of these birds do not breed in the county. These birds use a variety of habitat patches scattered throughout the county as vital stopover sites during spring and fall migration, or they spend the winter here.

Breeding evidence was collected for 116 different species of birds (37% of the total county list) during this Breeding Bird Atlas study. Details and atlas maps are provided for each of these species in the species account section.

Many of these breeding birds were once common breeding birds in the county. However, now, almost one-third (30%) of these species have been listed as Lost, Imperiled, or Vulnerable as breeding birds in Mecklenburg County. This is primarily due to habitat loss, habitat fragmentation, habitat degradation, and a variety of other contributing factors. An additional nine species (8%) are listed in North Carolina as being of conservation concern in the state. Lists and pertinent details are provided below.

I. Listed Species

Some birds that were documented breeding in Mecklenburg County have been identified as species of serious conservation concern in the state of North Carolina. Rankings of these birds in three different categories of conservation concern at the state level are presented below.

North Carolina Listed Species*: State listed as Significantly Rare, Special Concern, Threatened, or Endangered. (6 species) (5%)

Yellow-crowned Night-Heron: Significantly Rare

Bald Eagle: Threatened

Sharp-shinned Hawk: Significantly Rare

Barn Owl: Significantly Rare

American Kestrel: Significantly Rare

Peregrine Falcon: Endangered

North Carolina Watch List*: Species that are rare or uncommon, are not well studied, or are otherwise threatened with serious decline. (10 species) (9%)

(W1: population decline in NC. W2: rare but relatively secure. W3: poorly known in NC. W5: threat to habitat)

Hooded Merganser: W3 Pied-billed Grebe: W2 Common Nighthawk: W1 Chuck-will's-widow: W1 Eastern Whip-poor-will: W1 Chimney Swift: W1 Willow Flycatcher: W2 Loggerhead Shrike: SC, W2 Common Raven: W2

Grasshopper Sparrow: W1, W5

SWAP Listed Species^: State Wildlife Action Plan listed (17 species) (15%)

(SGCN = Species of Greatest Conservation Need)

Northern Bobwhite: SGCN

Yellow-crowned Night-Heron: SGCN

Bald Eagle: SGCN Barn Owl: SGCN

Red-headed Woodpecker: SGCN

American Kestrel: SGCN Peregrine Falcon: SGCN Loggerhead Shrike: SGCN Common Raven: SGCN

Brown-headed Nuthatch: SGCN Worm-eating Warbler: SGCN Louisiana Waterthrush: SGCN Prothonotary Warbler: SGCN Swainson's Warbler: SGCN Kentucky Warbler: SGCN Yellow-throated Warbler: SGCN

Prairie Warbler: SGCN

*Natural Heritage Program List of Rare Animal Species of North Carolina 2016, www.ncnhp.org

^2015 North Carolina Wildlife Action Plan, http://ncwildlife.org/plan

II. Lost Breeding Birds in Mecklenburg County, NC

(See Posters in Appendix) Two species of birds that once roamed the skies around this part of North Carolina and may possibly have once bred in the county are now extinct: the Carolina Parakeet and the Passenger Pigeon. The Carolina Parakeet was lost during the eighteenth century and the Passenger Pigeon was lost during the nineteenth century.

Six species of birds that were confirmed nesting in Mecklenburg County during the twentieth century are no longer breeding here:

- The Blue-headed Vireo was last confirmed breeding in the county in June 1939.
- The Black-billed Cuckoo was last confirmed breeding in the county in June 1943.
- The Henslow's Sparrow was last confirmed breeding in the county in June 1943.
- The King Rail was last confirmed breeding in the county in June 1945.
- The Bachman's Sparrow was last confirmed breeding in the county in May 1947.
- The Least Bittern is believed to have occasionally

bred in the county possibly as late as May 1990.

• The Bewick's Wren was once documented nesting as close as Chester County, SC, and was a migrant or winter visitor in Mecklenburg County. It has now been extirpated from both North and South Carolina. The last report of this wren from Mecklenburg County was a bird observed on June 6, 1990.

Recently Lost:

Three species regularly nested in Mecklenburg County throughout the twentieth century, but they now appear to be lost as breeding birds here. No evidence at the level of probable or confirmed breeding was documented during the five-year Atlas survey. (Maps for these three species are provided in the species accounts.) (3%)

Chuck-will's-widow Loggerhead Shrike Yellow-throated Warbler

Uncertain:

The status of the Sharp-shinned Hawk as a breeding bird in the county is unclear. Intake records from the Carolina Raptor Center confirm breeding has occurred in the county and the surrounding region. A designation of possible breeding was determined in two blocks during this survey. This species is known to be a secretive nesting bird.

The status of the Worm-eating Warbler needs further study as well. A designation of possible breeding was determined in one block during this survey. A female with a fully developed brood patch was captured at the banding station at Cowan's Ford Wildlife Refuge in recent years. It may be a sporadic breeder here.

III. Imperiled Breeding Birds in Mecklenburg County, NC

(See Posters in Appendix) Breeding Bird Atlas survey results indicate a breeding code of either confirmed or probable in **five or fewer** survey blocks in the county, and the local breeding population is not known to be increasing. Only species with established populations are included in this list. These birds are *especially* vulnerable to extirpation. (16 species) (14%)

Northern Bobwhite
Yellow-crowned Night-Heron
Barn Owl
Eastern Screech-Owl
Common Nighthawk
Eastern Whip-poor-will
American Kestrel
Yellow-throated Vireo
Horned Lark
Ovenbird
Black-and-white Warbler
Kentucky Warbler

Hooded Warbler American Redstart Yellow Warbler Grasshopper Sparrow

IV. Vulnerable Breeding Birds in Mecklenburg County, NC

(See Posters in Appendix) Breeding Bird Atlas survey results indicate a breeding code of either confirmed or probable in **six to ten** survey blocks in the county, and the local breeding population is not known to be increasing. These birds are rare or uncommon breeders, restricted to a few locations, or because of some other factor, are vulnerable to extirpation. (15 species) (13%)

Hooded Merganser
Wild Turkey
Black Vulture
Turkey Vulture
Broad-winged Hawk
American Woodcock
Red-headed Woodpecker
Northern Flicker
Pileated Woodpecker
Purple Martin
Cliff Swallow
Louisiana Waterthrush
Prothonotary Warbler
Prairie Warbler
Scarlet Tanager

V. New Breeding Birds in Mecklenburg County, NC

(See Posters in Appendix) Eleven of the twelve species listed below had not been confirmed breeding in Mecklenburg County prior to the turn of the twenty-first century. As indicated, several of these species have become established, or may possibly establish, regular breeding populations in the county.

- Pied-billed Grebe: first confirmed nesting April 2015, sporadic breeder, not expected to establish a long-term breeding population here.
- Mississippi Kite: first confirmed nesting June 2014. Now believed to nest annually.
- Bald Eagle: first fully confirmed nesting in the county in February 2009. Now nests annually.
- Spotted Sandpiper: first confirmed nesting July 2010, sporadic breeder, not expected to establish a long-term breeding population here
- Eurasian Collared-Dove: first confirmed nesting April 2011. Now nests annually.
- Peregrine Falcon: first-time breeder the Piedmont of the Carolinas, first confirmed nesting in March 2013, not expected to establish a long-term breeding population here.

- Willow Flycatcher: first confirmed nesting in June 2004, sporadic breeder, not expected to establish a long-term breeding population
- Common Raven: first confirmed nesting March 2010. Now nests annually.
- Tree Swallow: first confirmed nesting June 2003. Now nests annually.
- Swainson's Warbler: first suspected nesting May 2006. Not currently believed to be nesting.
- Dickcissel: first confirmed nesting May 2011, sporadic breeder, not expected to establish a long-term breeding population here.
- Baltimore Oriole: there are two confirmed nest attempts of the Baltimore Oriole in Mecklenburg County. The first was documented in the Dilworth area in May 1926. The second was documented in the Highland Creek area, 87 years later, in May 2013.

VI. Avian Guilds

An avian guild is a grouping of bird species that share a common life-history trait. A guild may be comprised of a variety of unrelated species that are linked together by a reliance on one or more habitat needs; such as the need for natural nest cavities for reproduction, or a diet specializing in feeding on aerial "plankton" (insects), or species that nest on or near the ground, among others. (www.bsc-eoc.org/download/BWCwi08.pdf)

An analysis of breeding information prior to the Atlas survey, together with the results of the Atlas survey indicate that the majority of the birds in the following five avian guilds are in decline as breeders in Mecklenburg County. Both the breeding population and breeding footprint of many of these species in these guilds are believed to have been reduced over the past two decades or more.

*Survey results for this species in the guild indicates a designation of fairly widespread or better, or the species is a sporadic breeder. Species marked with an asterisk are not considered to be of conservation concern in Mecklenburg County at this time.

Ground and Near-Ground Breeders

As a group, ground-nesting songbirds have declined worldwide. (Biological Conservation 136 (2007) p. 136) Habitat loss and nest predation are the primary contributors to this decline. In Mecklenburg County, predation by mesopredators (raccoons, skunks, coyotes, foxes, mink, opossums, etc.), black rat snakes, blue jays, and fire ants have been documented to be serious problems for ground-nesting and near ground-nesting birds. Nest parasitism by Brown-headed Cowbirds has also played a significant role in many of these birds' decline.

Pied-billed Grebe* Black Vulture Turkey Vulture Wild Turkey* Northern Bobwhite Killdeer*

American Woodcock Common Nighthawk Chuck-will's-widow Whip-poor-will Horned Lark

Prairie Warbler Black-and-white Warbler Worm-eating Warbler Swainson's Warbler

Ovenhird Louisiana Waterthrush Kentucky Warbler Common Yellowthroat* Hooded Warbler Eastern Towhee Field Sparrow* Grasshopper Sparrow Song Sparrow*

Red-winged Blackbird* Eastern Meadowlark

Cavity Nesting Birds

Populations of many cavity-nesting bird species are in decline. As a guild, they are one of the most threatened groups of birds in the North America. A lack of nest cavities (habitat loss) is the primary reason for the decline of birds in this guild.

Wood Duck* Hooded Merganser

Black Vulture (occasionally nests in cavities) Turkey Vulture (occasionally nests in cavities)

American Kestrel

Barn Owl

Eastern Screech-Owl

Barred Owl* Chimney Swift

Red-headed Woodpecker

Red-bellied Woodpecker*

Downy Woodpecker*

Hairy Woodpecker

Northern Flicker

Pileated Woodpecker

Great Crested Flycatcher*

Purple Martin

Tree Swallow*

Carolina Chickadee*

Tufted Titmouse*

White-breasted Nuthatch

Brown-headed Nuthatch*

Carolina Wren* (occasionally nests in cavities)

House Wren*
Eastern Bluebird*
European Starling*
Prothonotary Warbler
House Sparrow*

Aerial Insectivores

Breeding populations of many species of aerial insectivores are in "startling decline" across much of North America. The magnitude of these declines are especially alarming. The continental population of many of these birds has declined 50–70% over the past two decades alone. (www.bsc-eoc.org/download/BWCwi08.pdf)

Common Nighthawk
Chuck-will's-widow
Whip-poor-will
Chimney Swift
Eastern Wood-Pewee
Acadian Flycatcher*
Willow Flycatcher
Great Crested Flycatcher*
Eastern Kingbird*
Purple Martin
Tree Swallow*
Northern Rough-winged Swallow*
Cliff Swallow*
Barn Swallow*

Grassland/Agricultural Land Breeders

Birds that rely on grasslands or agricultural lands have shown some of the steepest declines in breeding populations in both North and South Carolina. (NC SWAP www.ncwildlife.org and SC DNR John E. Cely and Laurel Moore Barnhill)

Northern Bobwhite Barn Owl Loggerhead Shrike Prairie Warbler (early successional) Yellow-breasted Chat (early successional) Grasshopper Sparrow Field Sparrow* Eastern Meadowlark

Long-distance Migrants that Breed in Mecklenburg County

Many of our breeding birds are known as "neotropical migrants", long-distance migrants that overwinter in mature tropical forests, but breed in the United States and Canada. The breeding populations of most of these birds are in decline across North America. (www. rainforesttrust.org / John Terborgh and David Wilcove)

Mississippi Kite* Broad-winged Hawk Chuck-will's-widow Whip-poor-will Yellow-billed Cuckoo Great Crested Flycatcher* Acadian Flycatcher* Eastern Wood-Pewee Wood Thrush Blue-gray Gnatcatcher* Yellow-throated Vireo Black-and-white Warbler Prothonotary Warbler Swainson's Warbler Worm-eating Warbler Northern Parula Yellow-throated Warbler Ovenbird Louisiana Waterthrush Kentucky Warbler Hooded Warbler American Redstart Scarlet Tanager

SPECIES ACCOUNTS

Explanatory Matter

A total of 346 species of birds have been found in the Central Carolinas. A total of 312 have been documented in Mecklenburg County. Breeding evidence is provided for 116 species.

Arrangement

The taxonomic sequence of avian orders, families, and species, and all common and scientific names, conform to the 56th Supplement to the American Ornithologist's Union Check-list of North American Birds, published in 2015.

Components

- 1) Common name
- 2) Scientific name
- 3) Seasonality: Adapted from Post and Gauthreaux (1989) Resident: found in all or part of the region year round

Breeder: breeding confirmed in all or part of the region, but species is not found here all year

Migrant: periodically moves in and out of the region, is not known to breed here

Winter Resident/Visitor: spends all or part of the winter in the region

4) Occurrence and Abundance Categories: Adapted from Post and Gauthreaux (1989) and LeGrand and Howard (2017)

For species of irregular occurrence that are not recorded annually:

- Accidental: 1–2 records for the region
- Casual: 2–5 records for the region
- Very Rare: 6–9 records for the region

For regularly occurring species that are recorded annually:

- Rare: often missed by a person in a given season, but 10 or more records from the region
- Uncommon: can be missed in a given day, but can usually be found if searching for several days
- Fairly Common: usually seen in a given day, but mostly under 5 individuals
- Common: usually seen in moderate numbers, often 5–20, in a given day
- Very Common: usually seen in large numbers, often 20–100, in a given day
- Abundant: usually seen in very large numbers, often over 100 in a given day, at the appropriate time of year and in the appropriate habitat.
- 5) Seasonal Abundance Graph: A graph is provided for

each species to help the reader quickly determine the typical level of abundance and relative occurrence of each bird throughout the year. Although these graphs are derived from actual records of each species reported from within the region, each graph should be considered only as a general approximation of the actual occurrence and abundance of each bird. (*Figure 1a and 1b*)

6) Habitat (very general): derived from a variety of

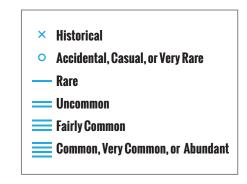


Figure 1a. (above) Abundance levels Figure 1b. (below) Seasonal abundance graph example



Seasons:

Winter: December, January, February

Spring: March, April, May Summer: June, July, August

Fall: September, October, November

sources including *The Land Manager's Guide to the Birds of the South* by Paul B. Hamel.

- 7) Original scientific illustration or photograph of the bird taken within the region.
- 8) Mecklenburg County Breeding Bird Atlas Maps (Figure 2)

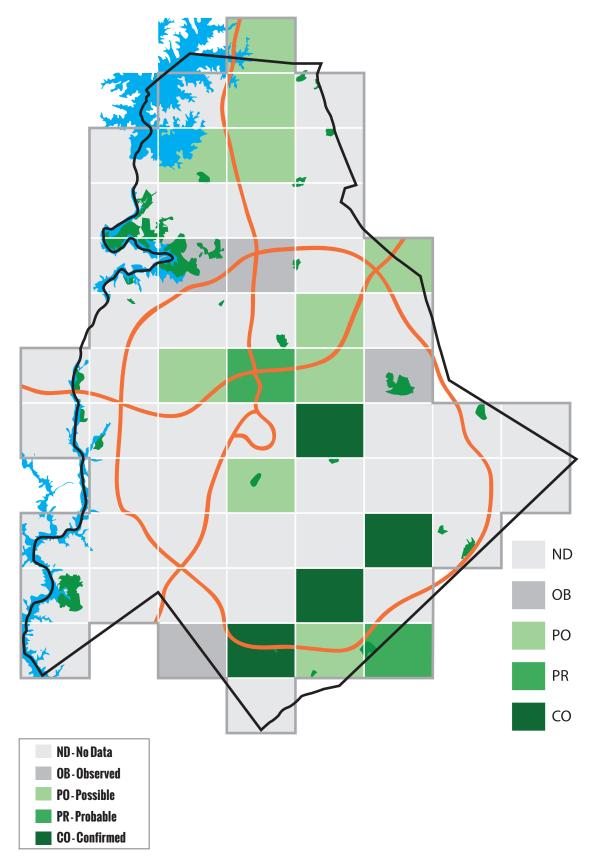


Figure 2. Breeding Bird Atlas Key and a BBA Map example

Canada Goose Branta canadensis

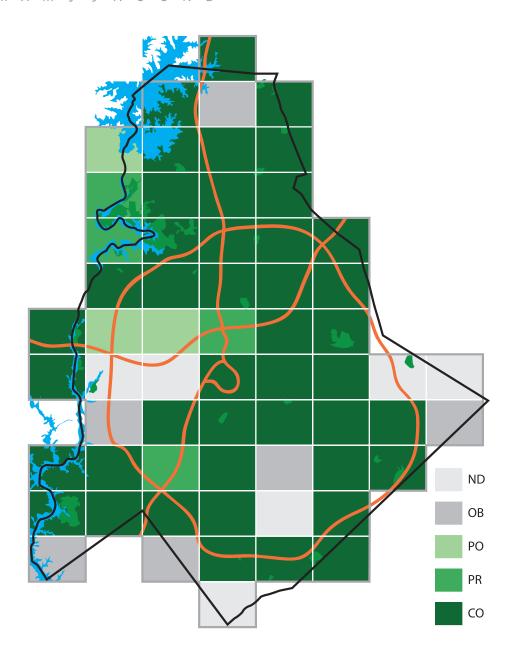


Status: Resident

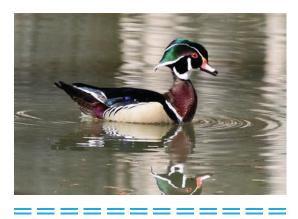
Abundance: Common

Habitat: Lakes, ponds, turf grass

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/4, CO/43)



Wood Duck Aix sponsa



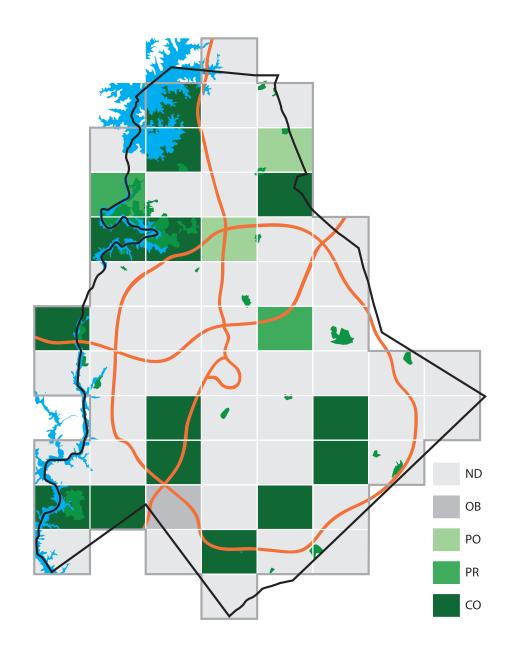
Status: Resident

Abundance: Uncommon

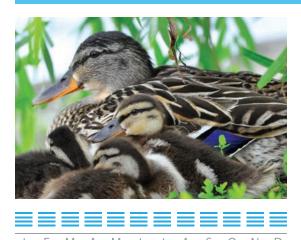
Habitat: Lakes, ponds, creeks, river bottoms, forested

wetlands

Breeding Bird Atlas: *Somewhat Local* (PR/2, CO/14)



Mallard Anas platyrhynchos

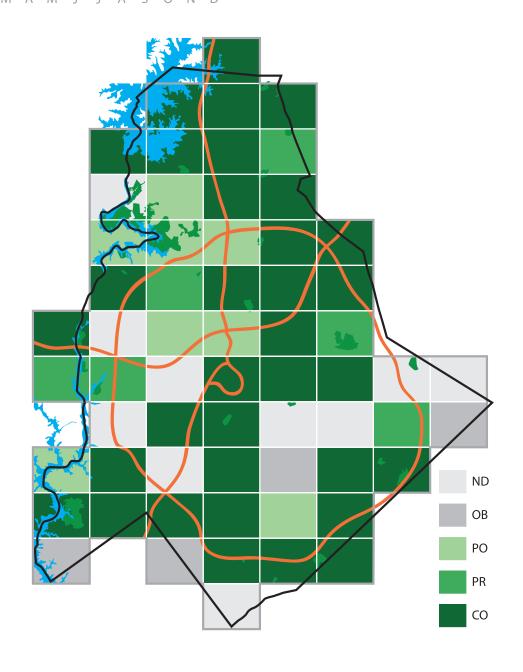


Status: Resident

Abundance: Common

Habitat: Lakes, ponds, creeks, turf grass

Breeding Bird Atlas: *Widespread* (PR/6, CO/34)



Hooded Merganser Lophodytes cucullatus



Status: Winter Resident, local Breeder

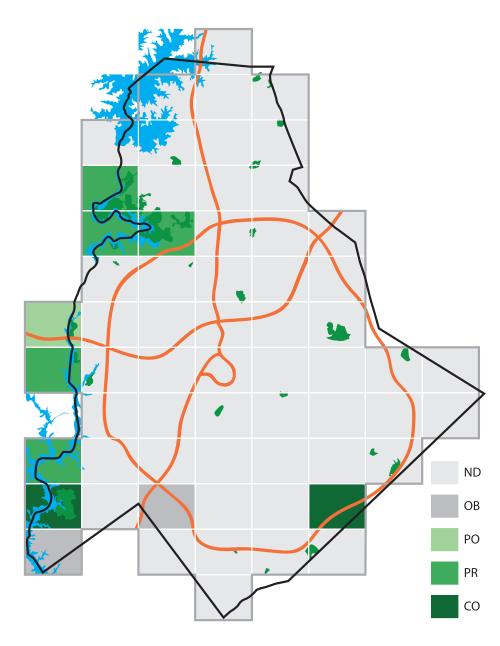
Abundance: Uncommon to Common

Habitat: Lakes, ponds, slow-moving creeks

Breeding Bird Atlas: *Local* (PR/5, CO/2)







Northern Bobwhite Colinus virginianus



Status: Resident

Abundance: Uncommon to Fairly Common—but

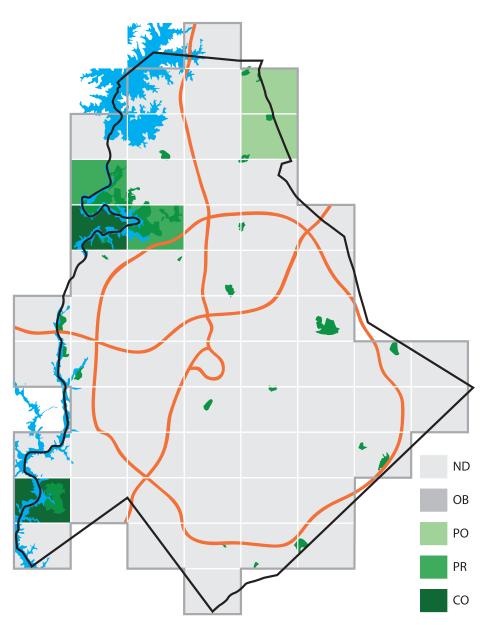
declining

Habitat: Brushy fields, hedgerows, thickets, forest edges,

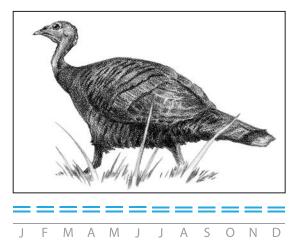
open woods

Breeding Bird Atlas: *Local* (PR/2, CO/2)





Wild Turkey Meleagris gallopavo



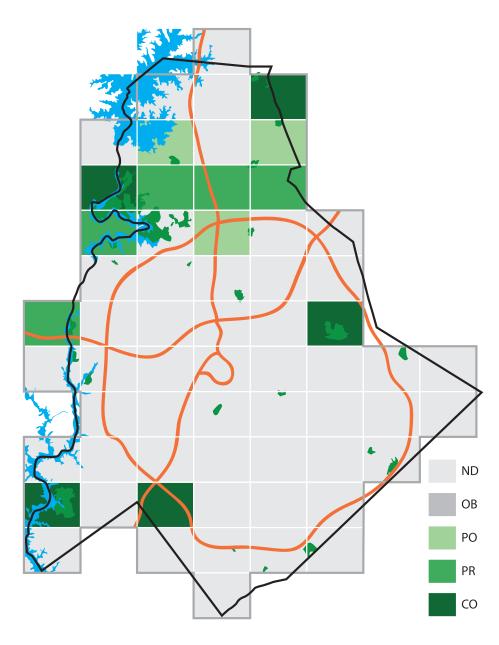
Status: Resident

Abundance: Uncommon

Habitat: Large hardwood and mixed hardwood forest patches; also forages in fields along forest edges

Breeding Bird Atlas: Somewhat Local (PR/5, CO/5)





Pied-billed Grebe *Podilymbus podiceps*



Status: Winter Resident, sporadic Breeder

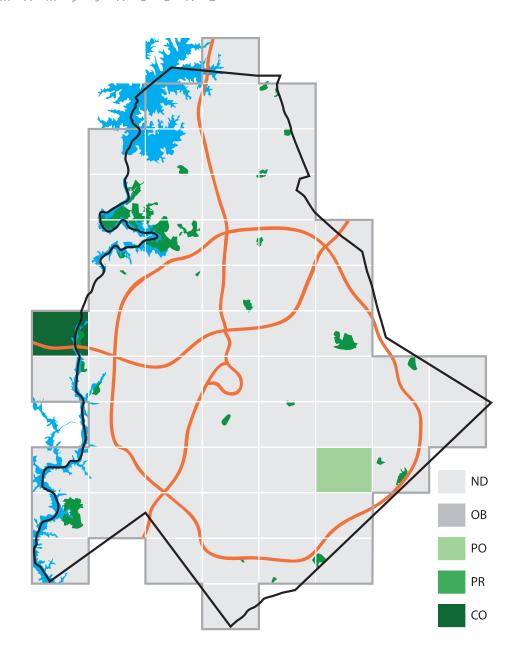
Abundance: Fairly Common

Habitat: Lakes, ponds

Breeding Bird Atlas: Very Local (PR/0, CO/1)

New Breeding Bird: First confirmed nesting April 2015, sporadic breeder, not expected to establish a long-term

breeding population here.



Great Blue Heron *Ardea herodias*

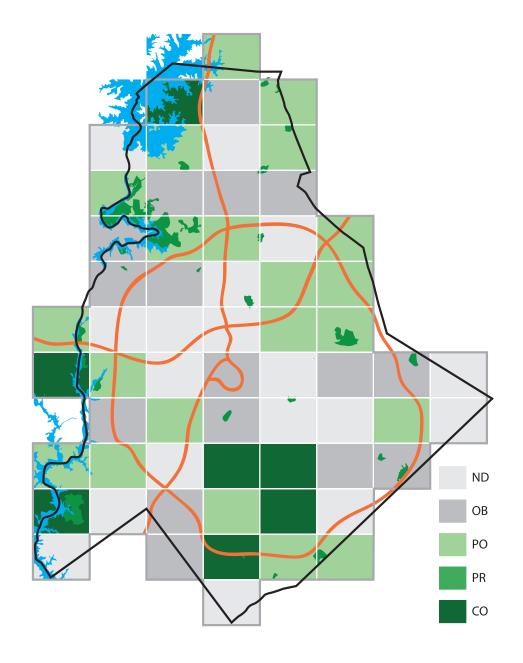


Status: Resident

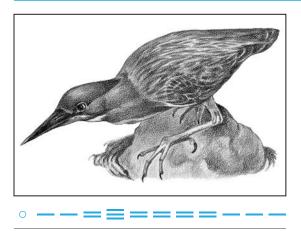
Abundance: Fairly Common to Common

Habitat: Lakes, rivers, ponds, wetlands, marshes

Breeding Bird Atlas: *Local* (PR/0, CO/7)



Green Heron Butorides virescens

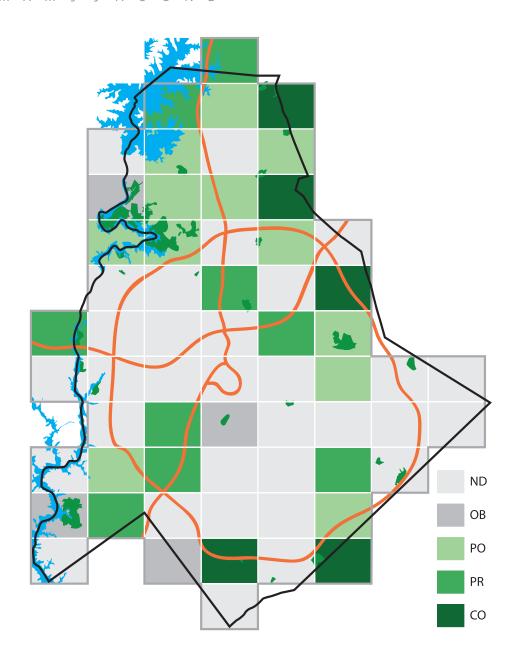


Status: Breeder, Migrant, Winter Visitor

Abundance: Fairly Common

 $\textbf{Habitat:} \ Lakes, rivers, ponds, wetlands, marshes$

Breeding Bird Atlas: Somewhat Local (PR/9, CO/5)



Yellow-crowned Night-Heron *Nyctanassa violacea*



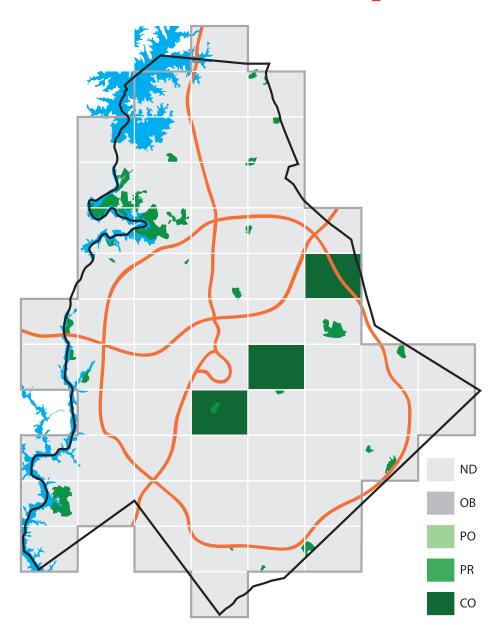
Status: Migrant, local Breeder

Abundance: Rare

Habitat: Creeks, ponds, wetlands, marshes, and mudflats

Breeding Bird Atlas: Very Local (PR/0, CO/3)





Black Vulture Coragyps atratus



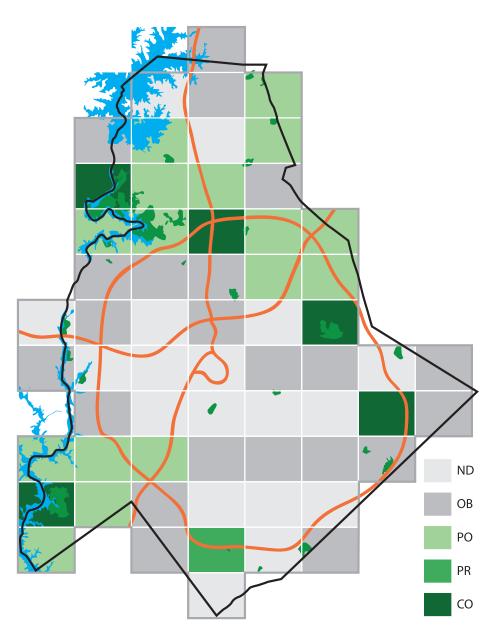
Status: Resident

Abundance: Uncommon to Fairly Common

Habitat: Forage almost anywhere including narrow roadsides, especially in open country with abundant livestock or deer. Nest in sheltered cavities in old outbuildings, forests, ledges.

Breeding Bird Atlas: *Local* (PR/1, CO/5)





Turkey Vulture Cathartes aura



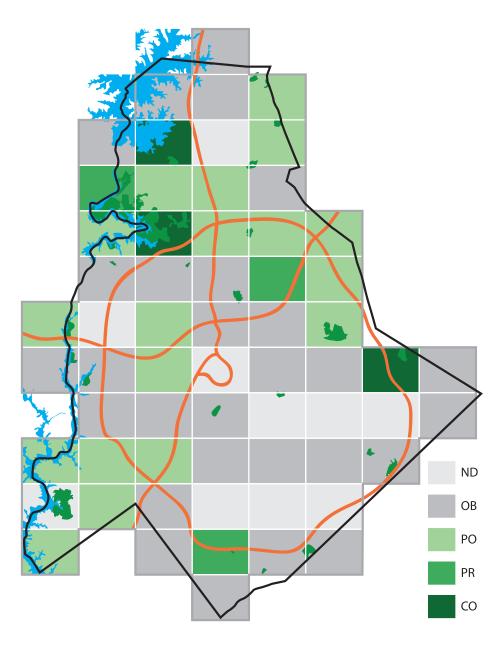
Status: Resident

Abundance: Fairly Common to Common

Habitat: Forage almost anywhere. Nest in sheltered cavities in old out-buildings, forests, ledges.

Breeding Bird Atlas: *Local* (PR/3, CO/3)





Osprey Pandion haliaetus

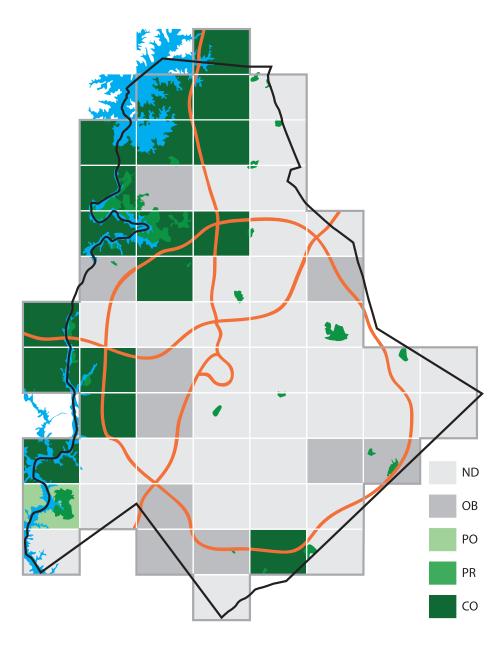


Status: Breeder, Migrant, Winter Visitor

Abundance: Uncommon to Fairly Common

Habitat: Open water habitats

Breeding Bird Atlas: Somewhat Local (PR/0, CO/17)



Mississippi Kite Ictinia mississippiensis



Status: Migrant, Breeder

Abundance: Rare

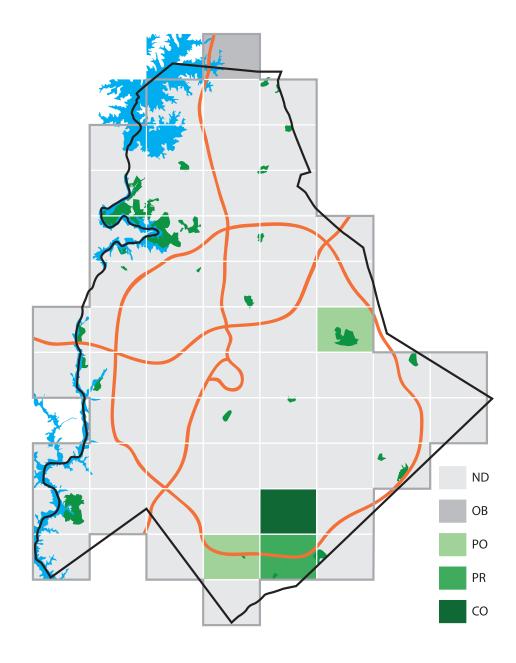
Habitat: Hardwoods near creeks, or rivers, forages in

open fields

Breeding Bird Atlas: Very Local (PR/1, CO/1)

New Breeding Bird: First confirmed nesting June 2014.

Now believed to nest annually.



Bald Eagle Haliaeetus leucocephalus



Status: Resident

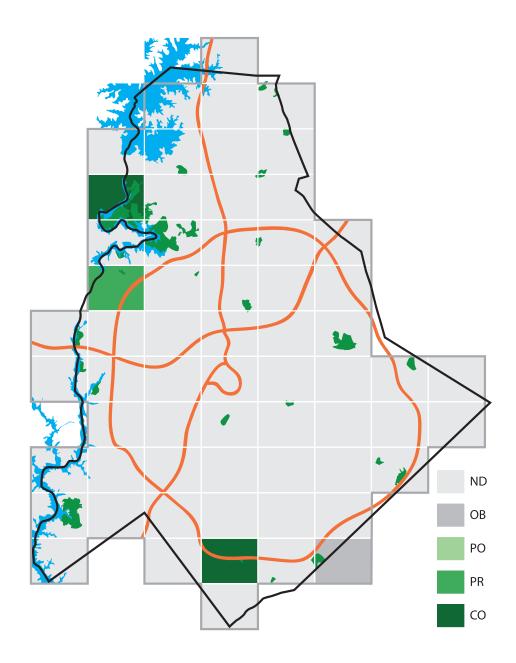
Abundance: Rare to Uncommon

Habitat: River corridors, lakes, large ponds, open marsh

habitats

Breeding Bird Atlas: *Very Local* (PR/1, CO/2)

New Breeding Bird: First fully confirmed nesting in the county in February 2009. Now nests annually.



Sharp-shinned Hawk Accipiter striatus

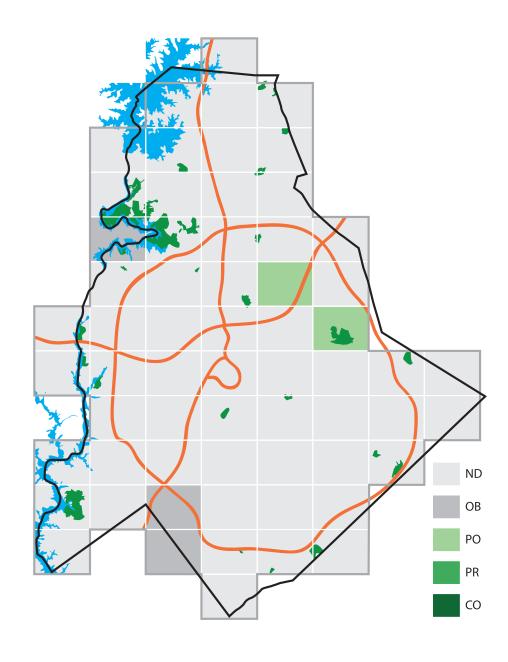


Status: Migrant, Winter Resident, sporadic Breeder

Abundance: Uncommon

Habitat: Woodlands and urban and suburban woodlots

Breeding Bird Atlas: *UNCERTAIN—Possible* (PR/0, CO/0)



Cooper's Hawk Accipiter cooperii

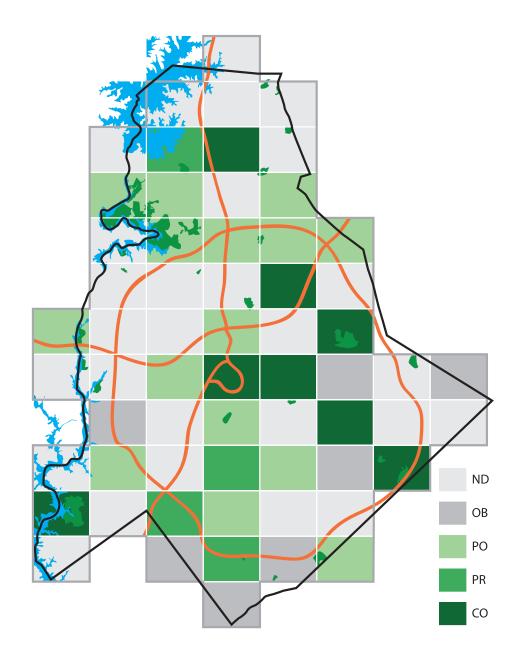


Status: Resident

Abundance: Uncommon

Habitat: Woodlands, urban and suburban woodlots

Breeding Bird Atlas: Somewhat Local (PR/4, CO/8)



Red-shouldered Hawk Buteo lineatus

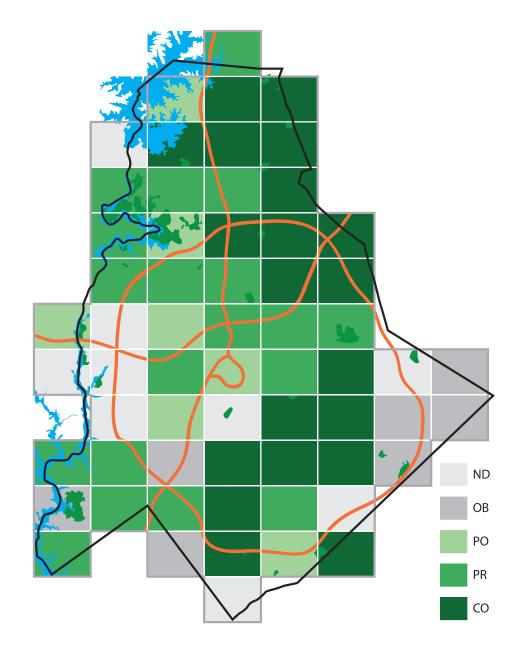


Status: Resident

Abundance: Fairly Common

Habitat: Forests and open fields

Breeding Bird Atlas: *Widespread* (PR/19, CO/20)



Broad-winged Hawk Buteo platypterus



Status: Breeder

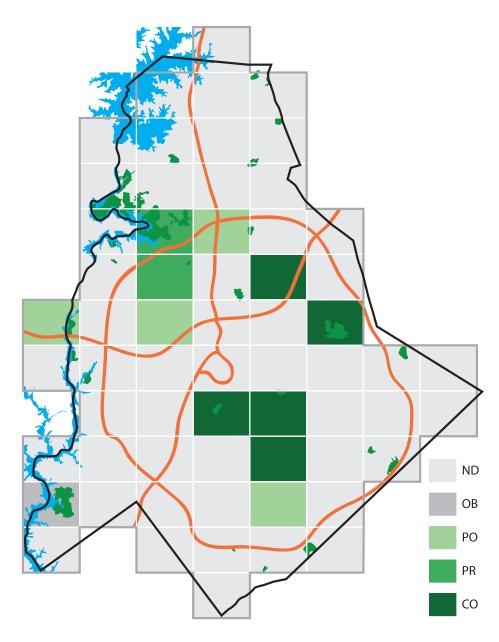
Abundance: Uncommon

Habitat: Deciduous forests

Breeding Bird Atlas: *Local* (PR/2, CO/5)







Red-tailed Hawk Buteo jamaicensis

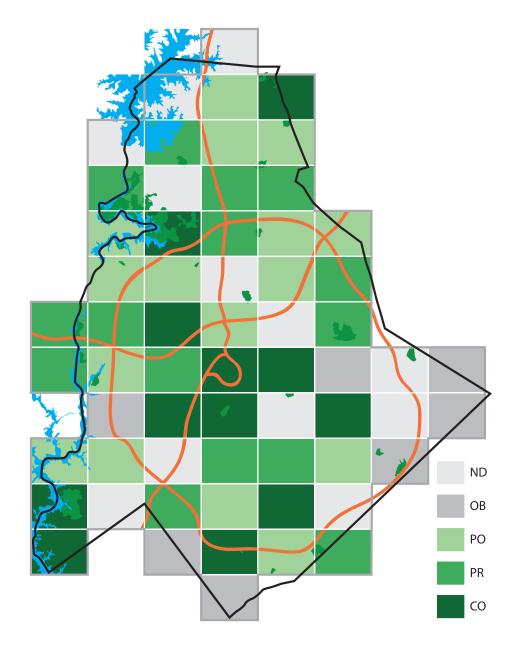


Status: Resident

Abundance: Fairly Common to Common

Habitat: Forest edges and extensive open fields

Breeding Bird Atlas: Fairly Widespread (PR/15, CO/12)



Killdeer Charadrius vociferus



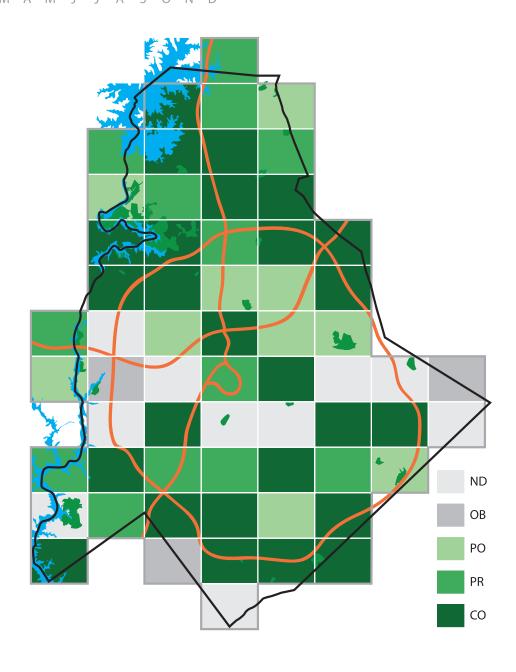
Status: Resident

Abundance: Fairly Common to Common

Habitat: Open, flat land with bare ground, sparse grass,

or short grass

Breeding Bird Atlas: Widespread (PR/13, CO/26)



Spotted Sandpiper *Actitis macularius*



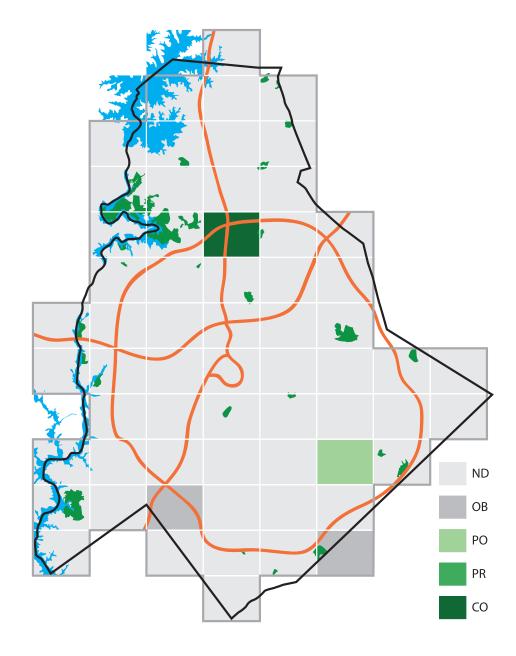
Status: Migrant, Winter Visitor, sporadic Breeder

Abundance: Fairly Common

Habitat: Mud flats, lakes, ponds, creeks

Breeding Bird Atlas: Very Local (PR/0, CO/1)

New Breeding Bird: First confirmed nesting July 2010, sporadic breeder, not expected to establish a long-term breeding population here.



American Woodcock Scolopax minor



Status: Resident

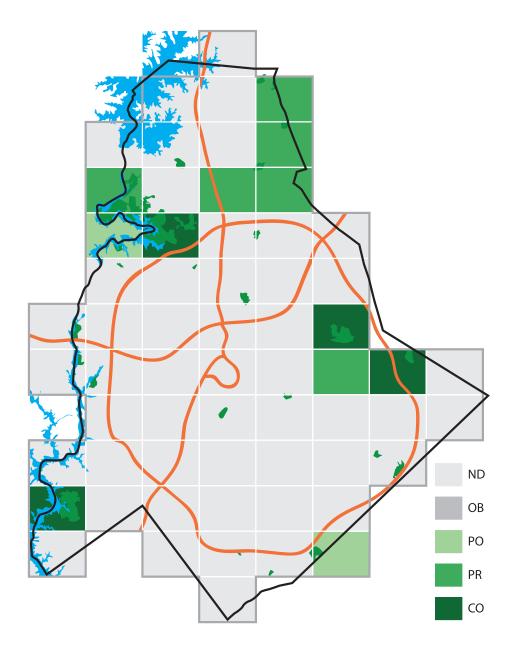
Abundance: Rare to Uncommon

Habitat: Wet fields, moist woods, edges of marshes,

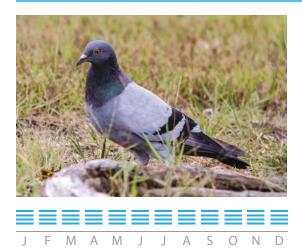
muddy pastures

Breeding Bird Atlas: *Somewhat local* (PR/6, CO/4)





Rock Pigeon Columba livia



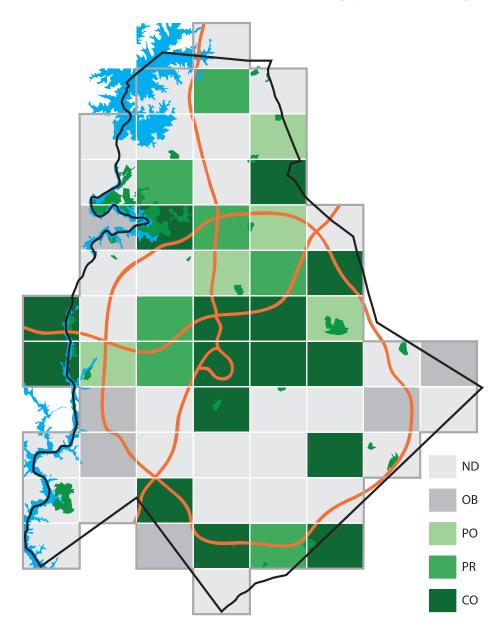
Status: Resident

Abundance: Common to Abundant

Habitat: Urban areas, underpasses and ledges, farms, industrial sites—bare ground and short grass

Breeding Bird Atlas: Fairly Widespread (PR/7, CO/15)

Note: The presence of Rock Pigeon is believed to be underrepresented by this Mecklenburg County Breeding Bird Atlas Map. Birders sometimes fail to pay attention to these feral birds.



Eurasian Collared-Dove *Stretopelia decaocto*



Status: Resident

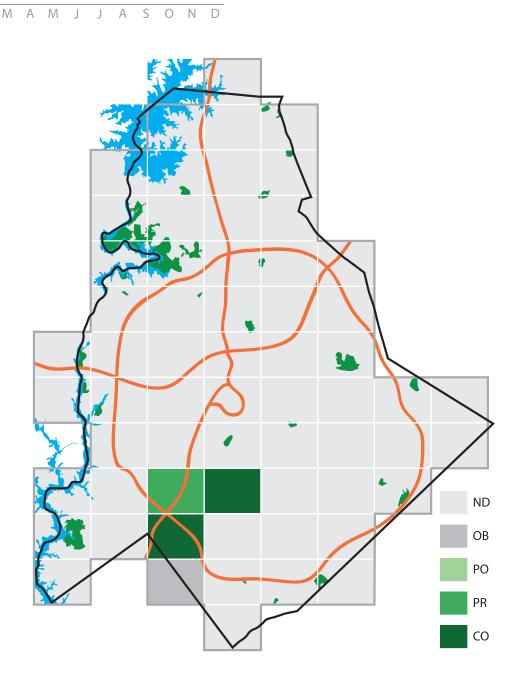
Abundance: Rare to Uncommon

Habitat: Urban areas and agricultural sites

Breeding Bird Atlas: Very Local (PR/1, CO/2)

New Breeding Bird: First confirmed nesting April 2011.

Now nests annually.



Mourning Dove Zenaida macroura



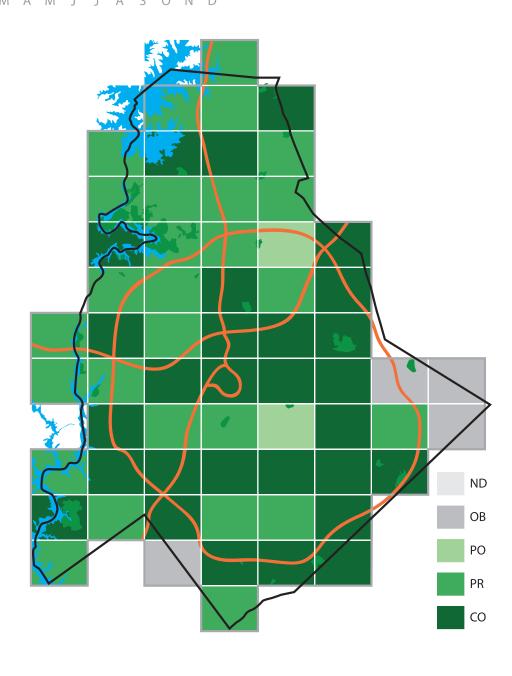
Status: Resident

Abundance: Abundant

Habitat: Nest in small trees near open fields and open

ground in both urban and rural areas

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/27, CO/29)



Yellow-billed Cuckoo Coccyzus americanus

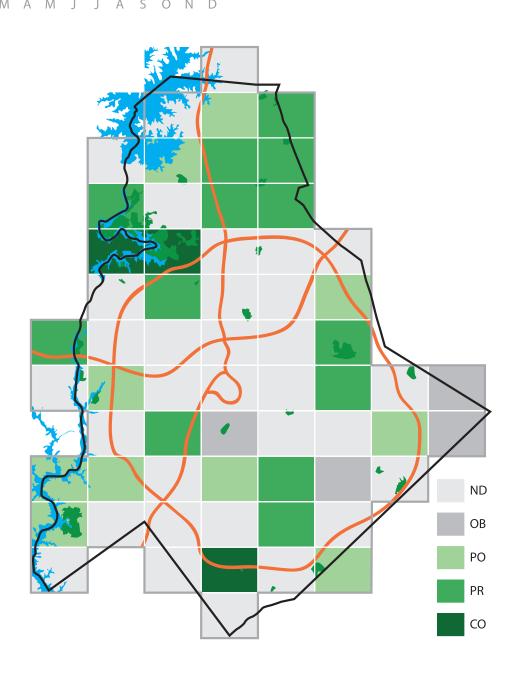


Status: Breeder

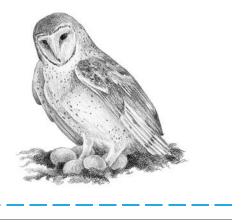
Abundance: Uncommon to Fairly Common

Habitat: Deciduous forests

Breeding Bird Atlas: Somewhat Local (PR/13, CO/3)



Barn Owl Tyto alba



Status: Resident

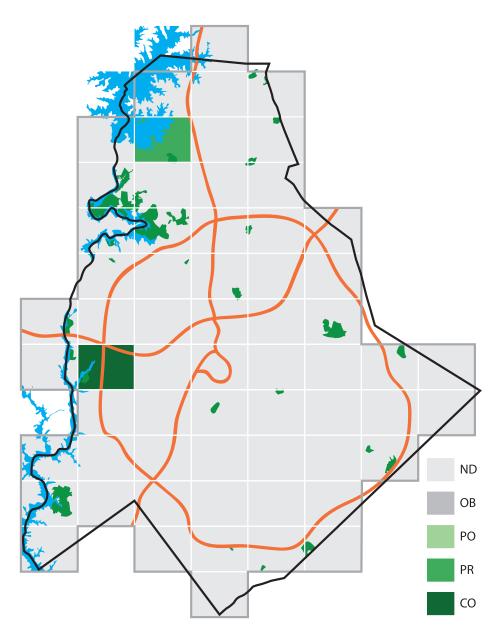
Abundance: Rare

Habitat: Open country, extensive fields, farmland,

marshes, short grasslands

Breeding Bird Atlas: Very Local (PR/1, CO/1)





Eastern Screech-Owl Megascops asio



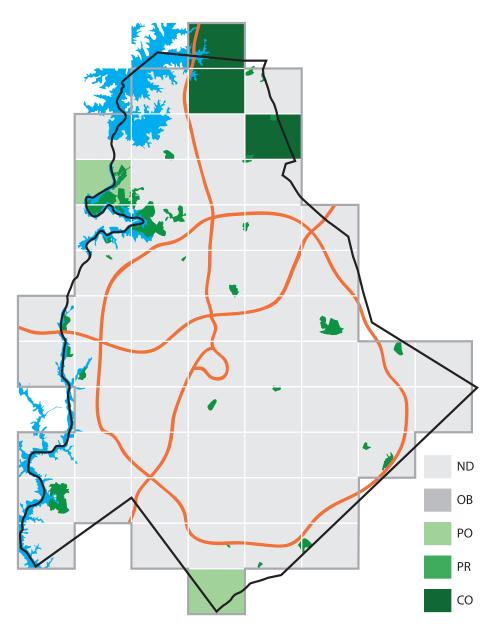
Status: Resident

Abundance: Uncommon

Habitat: Woodlands

Breeding Bird Atlas: Very Local (PR/0, CO/3)





Great Horned Owl *Bubo virginianus*



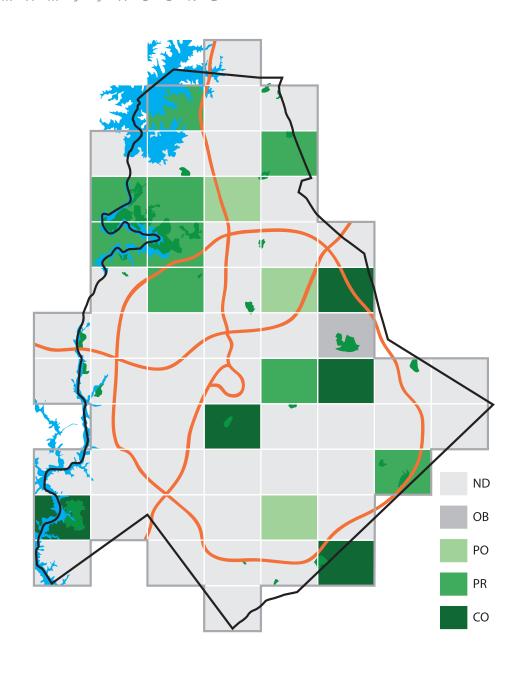
Status: Resident

Abundance: Uncommon

Habitat: Upland forests with adjacent fields, often nests in

pines

Breeding Bird Atlas: Somewhat Local (PR/9, CO/5)



Barred Owl Strix varia



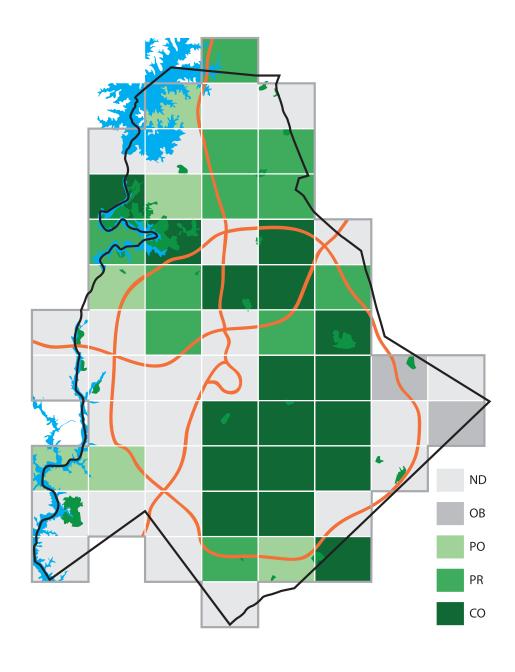
Status: Resident

Abundance: Farily Common

Habitat: Moist riparian forests and urban and suburban

bottomland forests

Breeding Bird Atlas: Fairly Widespread (PR/11, CO/17)



Common Nighthawk Chordeiles minor



Status: Migrant, local Breeder

Abundance: Rare to Uncommon

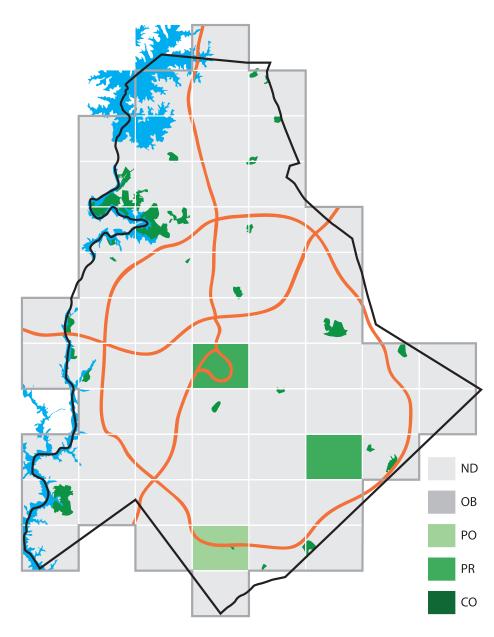
Habitat: Nests on gravel roofs of flat-topped buildings—

aerial insectivore

Breeding Bird Atlas: Very Local (PR/2, CO/0)







Chuck-will's-widow Antrostomus carolinensis



Status: Breeder

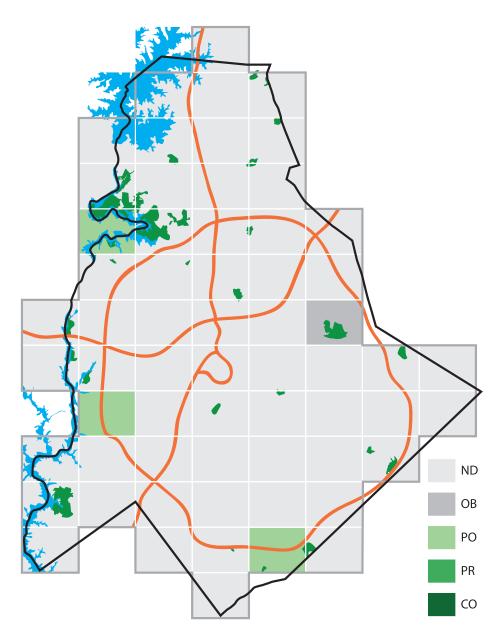
Abundance: Rare to Uncommon

Habitat: Open woodlands near open fields

Breeding Bird Atlas: *Possible* (PR/0, CO/0)







Eastern Whip-poor-will Antrostomus vociferous



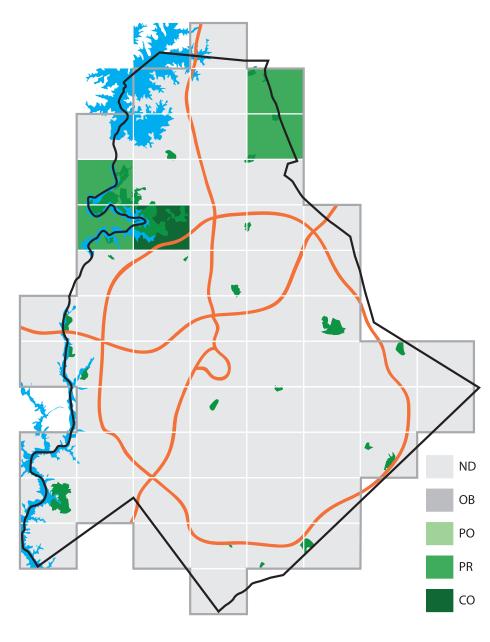
Status: Breeder

Abundance: Rare to Uncommon

Habitat: Woodlands often near open fields

Breeding Bird Atlas: *Local* (PR/4, CO/1)





Chimney Swift Chaetura pelagica



Status: Breeder

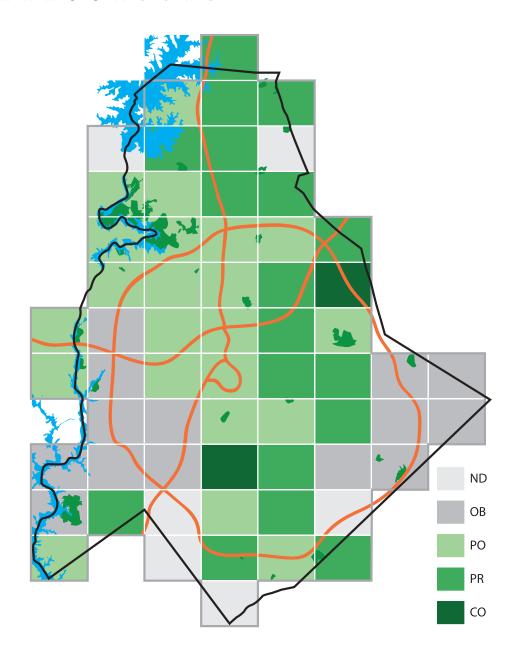
Abundance: Common

Habitat: Aerial insectivore—observed in flight—perches

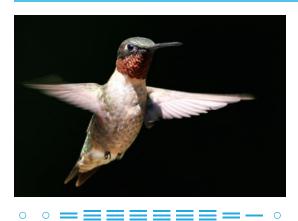
in chimneys

Breeding Bird Atlas: Somewhat Local—likely declining

(PR/18, CO/2)



Ruby-throated Hummingbird *Archilochus colubris*



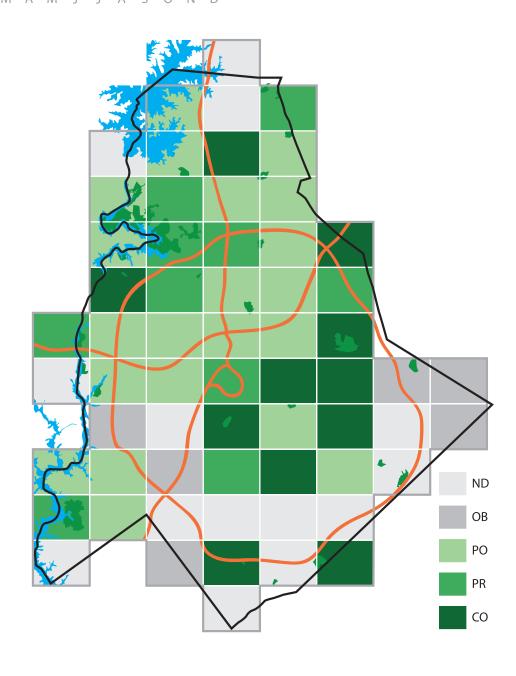
Status: Breeder

Abundance: Fairly Common

Habitat: Woodlands and residential areas with tubular

flowers, hummingbird feeder stations

 $\textbf{Breeding Bird Atlas:} \ \textit{Fairly Widespread} \ (PR/10, CO/11)$



Belted Kingfisher *Megaceryle alcyon*



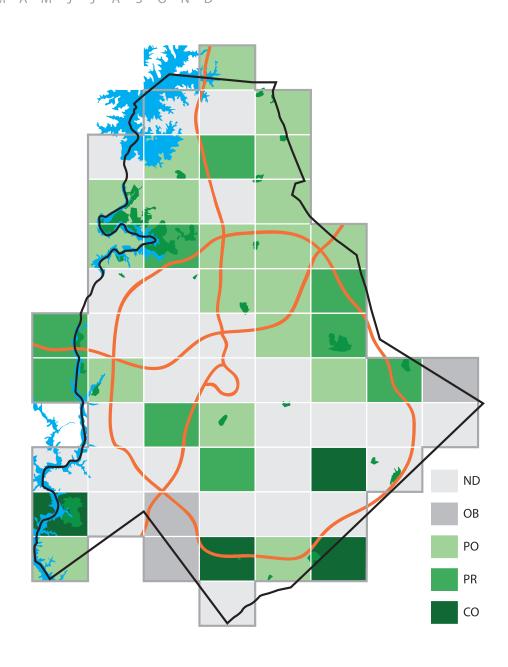
Status: Resident

Abundance: Fairly Common

Habitat: Lakes, ponds, streams, wires along roads with

wet ditches

Breeding Bird Atlas: Somewhat Local (PR/9, CO/4)



Red-headed Woodpecker *Melanerpes erythrocephalus*



Status: Resident

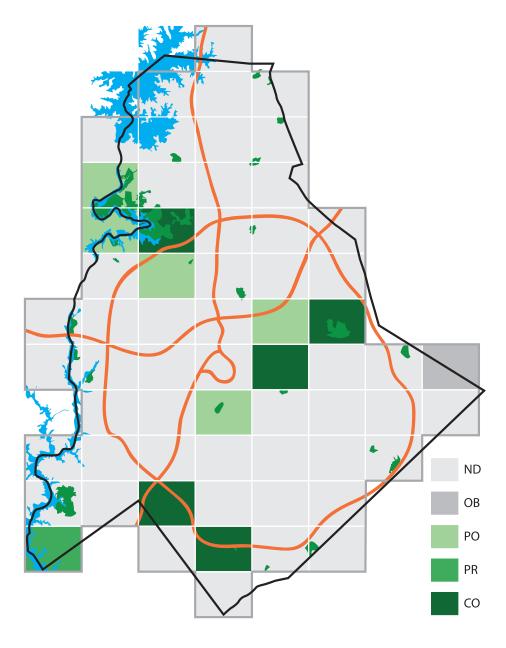
Abundance: Uncommon

Habitat: Open forest, parks, planted groves, bottomland

forest (winter)

Breeding Bird Atlas: *Local* (PR/1, CO/5)





Red-bellied Woodpecker *Melanerpes carolinus*

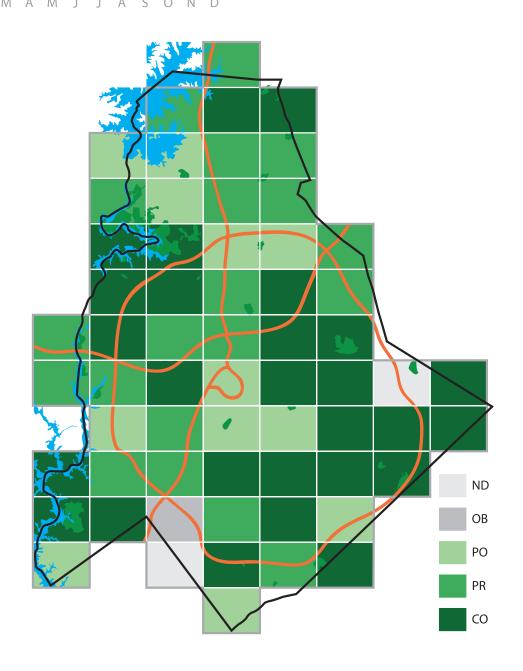


Status: Resident

Abundance: Common

Habitat: Mature forest

Breeding Bird Atlas: *Ubiquitous* (PR/20, CO/27)



Downy Woodpecker Picoides pubescens

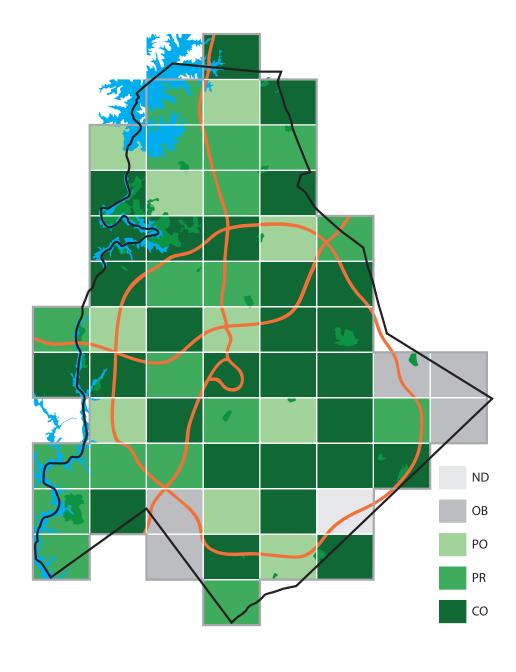


Status: Resident

Abundance: Common

Habitat: Woodlands, forested neighborhoods and parks

Breeding Bird Atlas: Nearly Ubiquitous (PR/18, CO/28)



Hairy Woodpecker *Picoides villosus*

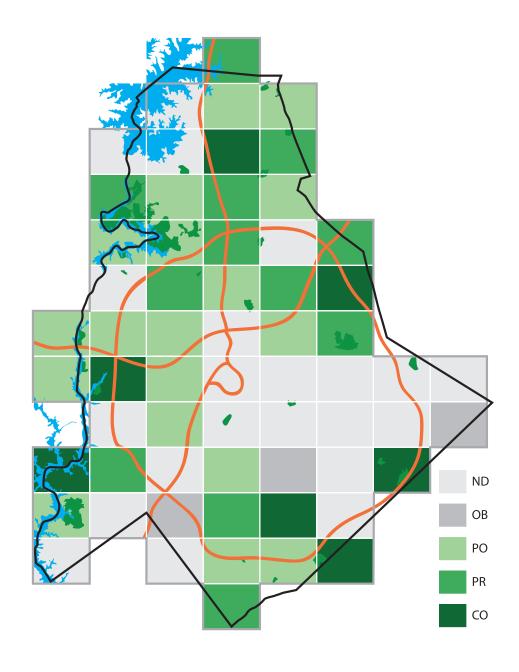


Status: Resident

Abundance: Uncommon to Fairly Common

Habitat: Forests and heavily forested neighborhoods

Breeding Bird Atlas: Somewhat Local (PR/12, CO/7)



Northern Flicker Colaptes auratus



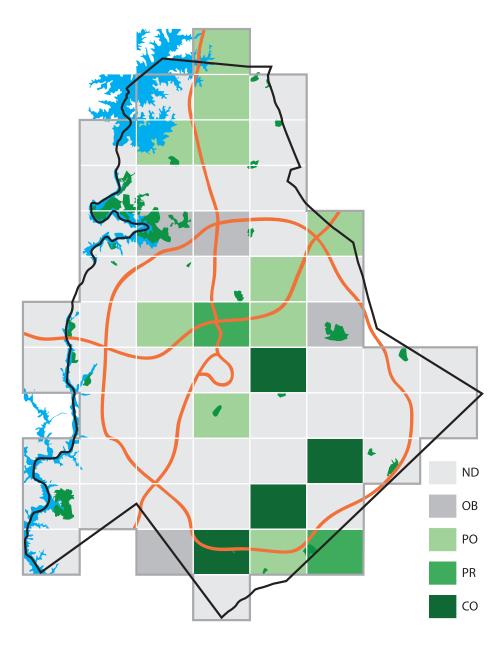
Status: Resident

Abundance: Fairly Common

Habitat: Open woodlands, parks, neighborhoods

Breeding Bird Atlas: Local (PR/2, CO/4)





Pileated Woodpecker *Dryocopus pileatus*



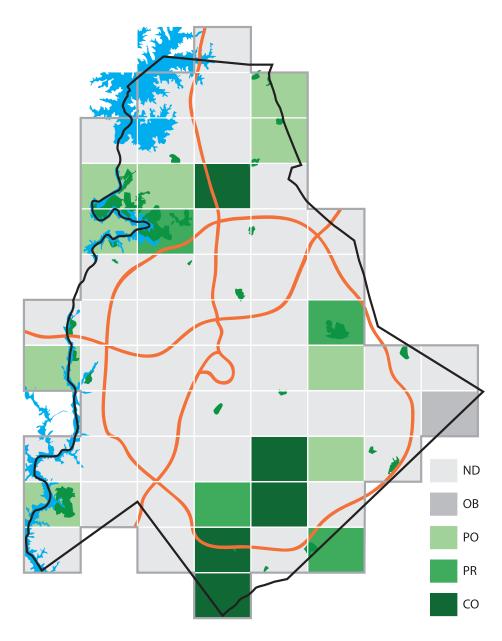
Status: Resident

Abundance: Rare to Uncommon

Habitat: Mature forests

Breeding Bird Atlas: *Local* (PR/4, CO/5)





American Kestrel Falco sparverius



Status: Resident

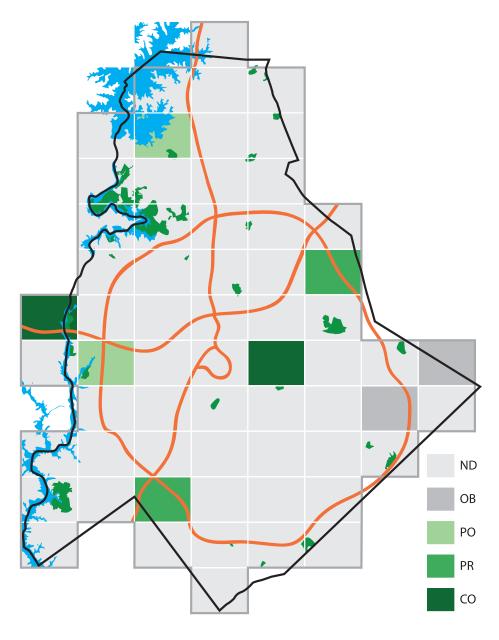
Abundance: Rare to Uncommon

Habitat: Open country, fields, pastures, also found

occasionally in urban areas

Breeding Bird Atlas: *Local* (PR/2, CO/2)





Peregrine Falcon Falco peregrinus



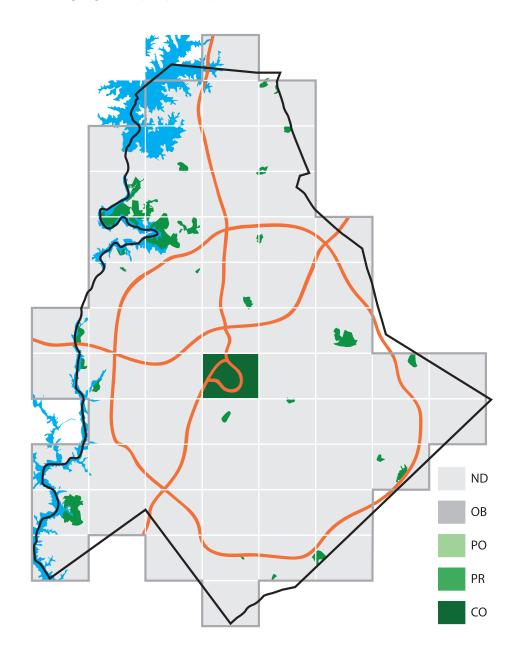
Status: Migrant, Winter Visitor, casual Breeder

Abundance: Rare

Habitat: Open country, fields, pastures, open water; also urban buildings and ledges for roosting and nesting

Breeding Bird Atlas: *Very Local* (PR/0, CO/1)

New Breeding Bird: First-time breeder the Piedmont of the Carolinas, first confirmed nesting in March 2013, not expected to establish a long-term breeding population here.



Eastern Wood-Pewee Contopus virens



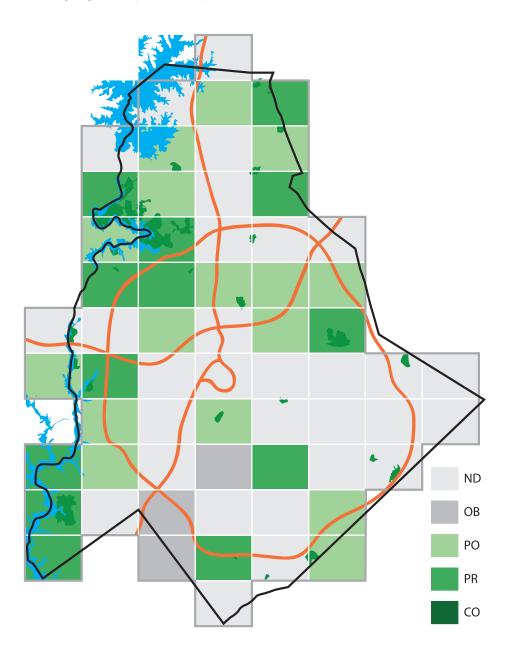
Status: Breeder

Abundance: Fairly Common to Common

Habitat: Exposed limb, often on a snag tree in an upland, usually open, woodland or woodlot of pines or hardwoods

 $\textbf{Breeding Bird Atlas:} \ \textit{Somewhat Local} \ (PR/13, CO/0)$





Acadian Flycatcher *Empidonax virescens*



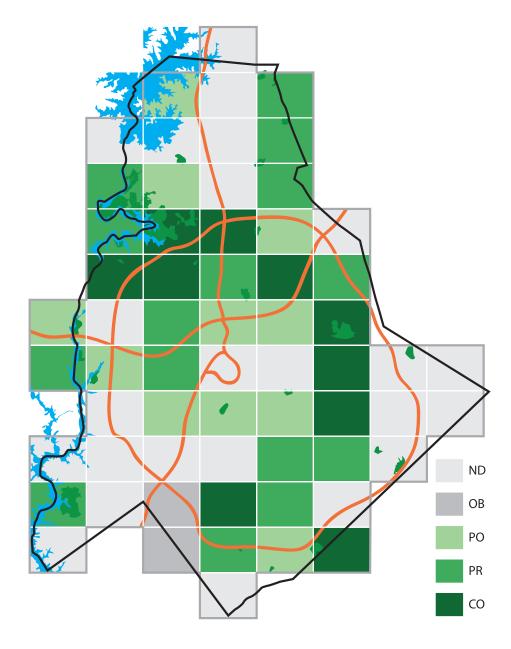
Status: Breeder

Abundance: Fairly Common

Habitat: Streamside deciduous forest, floodplain forest, and

bottomland hardwoods

Breeding Bird Atlas: Fairly Widespread (PR/15, CO/10)



Willow Flycatcher Empidonax traillii



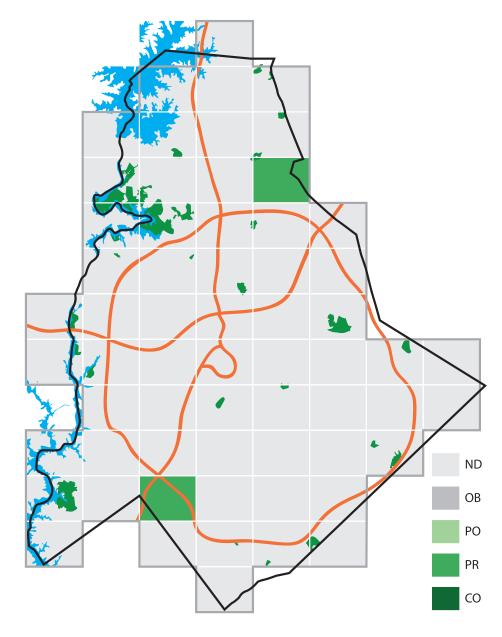
Status: Migrant, sporadic local Breeder

Abundance: Very Rare to Uncommon

Habitat: Shrubby thickets near ponds or along stream corridors

Breeding Bird Atlas: Very Local (PR/2, CO/0)

New Breeding Bird: First confirmed nesting in June 2004, sporadic breeder, not expected to establish a long-term breeding population here.



Eastern Phoebe Sayornis phoebe



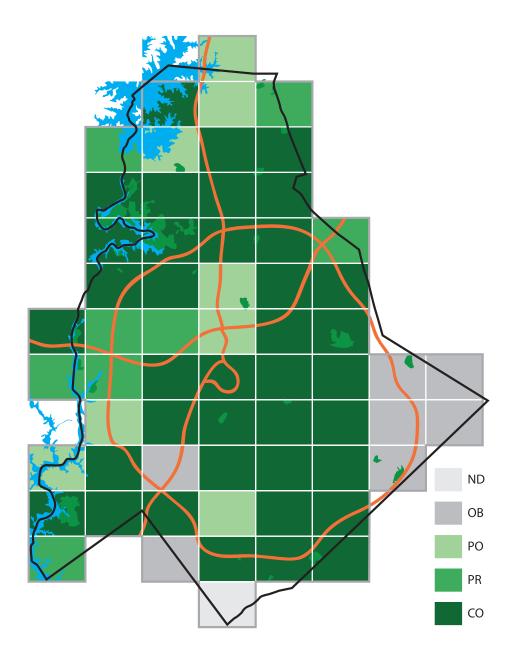
Status: Resident

Abundance: Fairly Common

Habitat: Open habitats nesting under bridges, building

eaves, horizontal ledges

Breeding Bird Atlas: Nearly Ubiquitous (PR/8, CO/38)



Great Crested Flycatcher *Myiarchus crinitus*



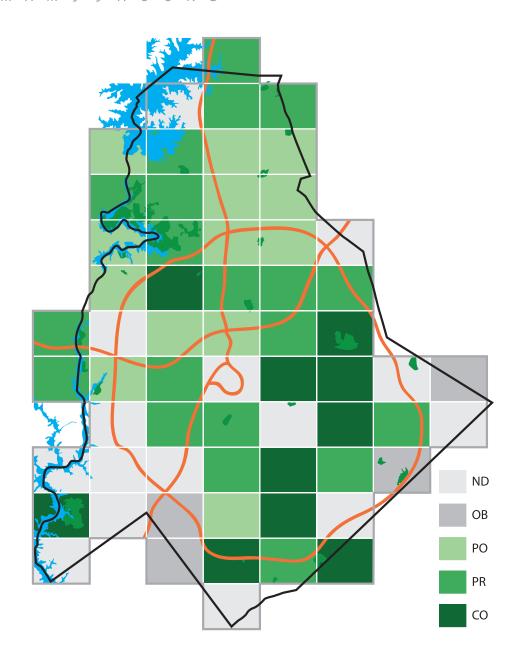
Status: Breeder

Abundance: Fairly Common

Habitat: Open woodlands and wooded groves, trees in

residential areas with nest cavities

Breeding Bird Atlas: Fairly Widespread (PR/20, CO/10)



Eastern Kingbird Tyrannus tyrannus

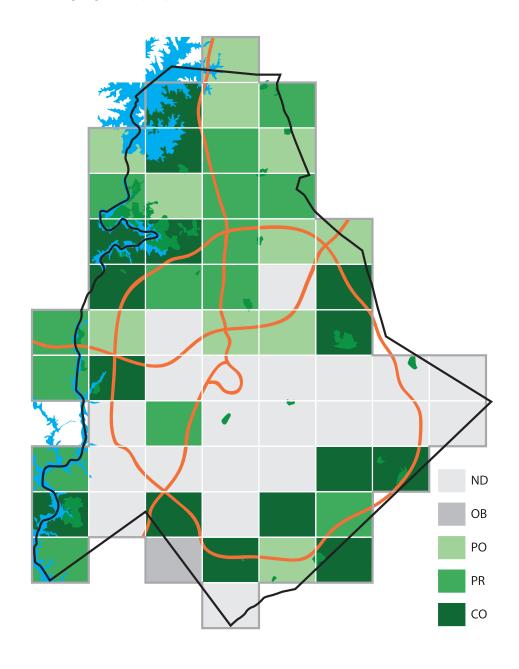


Status: Breeder

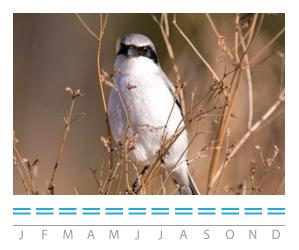
Abundance: Uncommon to Fairly Common

Habitat: Open areas, fences, wires, snags

Breeding Bird Atlas: Fairly Widespread (PR/14, CO/15)



Loggerhead Shrike *Lanius ludovicianus*



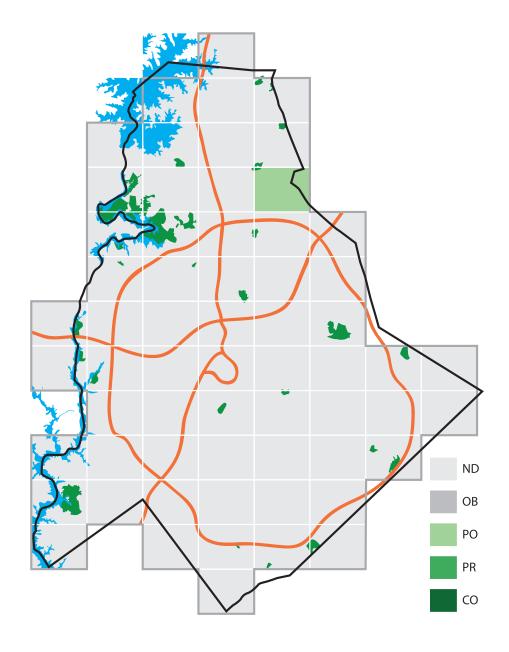
Status: Resident

Abundance: Uncommon/Rare in urban areas

Habitat: Open country, weedy fields, pastures

Breeding Bird Atlas: *Possible* (PR/0, CO/0)





White-eyed Vireo Vireo griseus



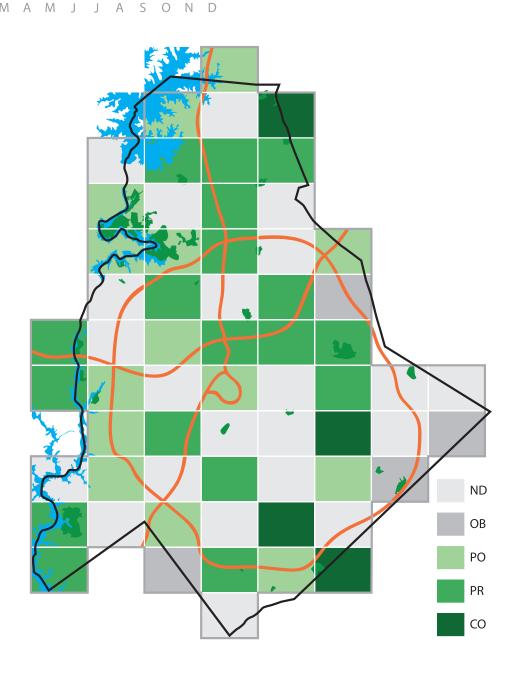
Status: Breeder, Winter Visitor

Abundance: Fairly Common to Common

Habitat: Dense thickets, and moist, shrubby, vine-covered

tangles

Breeding Bird Atlas: Fairly Widespread (PR/18, CO/4)



Yellow-throated Vireo *Vireo flavifrons*



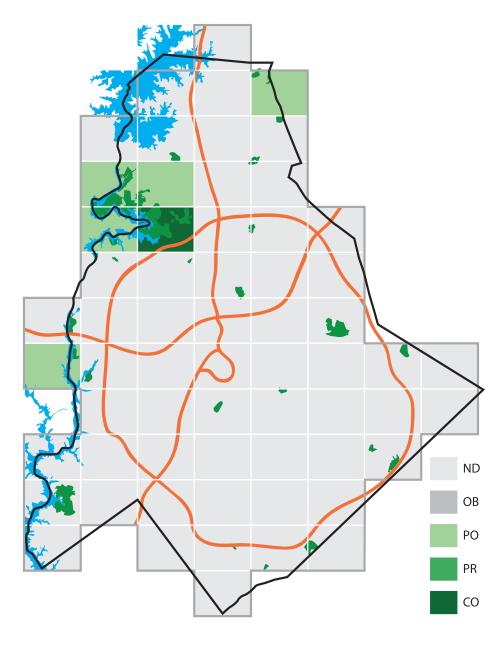
Status: Breeder

Abundance: Uncommon to Fairly Common

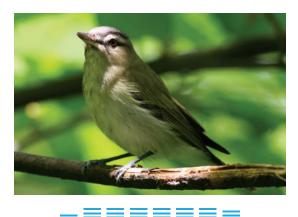
Habitat: Mature, open deciduous woodlands

Breeding Bird Atlas: Very Local (PR/0, CO/1)





Red-eyed Vireo Vireo olivaceus



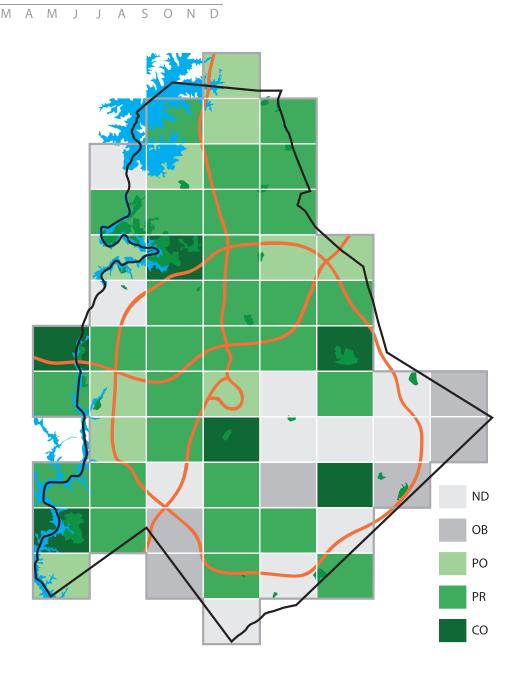
Status: Breeder

Abundance: Common to Very Common

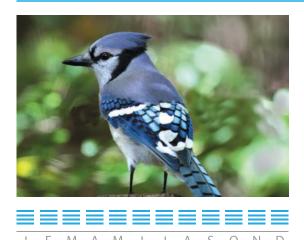
Habitat: Harwood forests and mixed pine hardwood

forests

Breeding Bird Atlas: *Widespread* (PR/29, CO/6)



Blue Jay Cyanocitta cristata

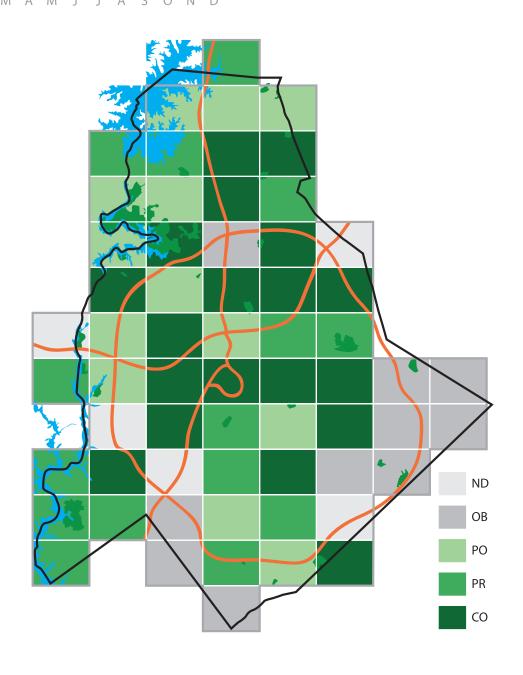


Status: Resident

Abundance: Very Common

Habitat: Woodlands, parks, residential areas

Breeding Bird Atlas: *Widespread* (PR/15, CO/19)



American Crow Corvus brachyrhynchos



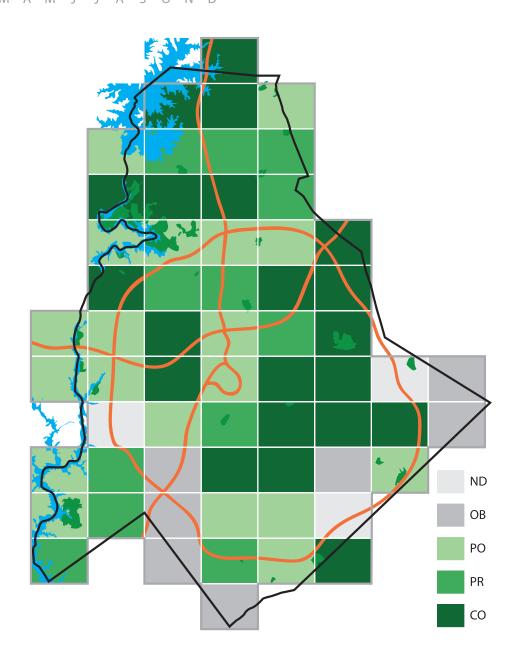
Status: Resident

Abundance: Very Common to Abundant

Habitat: Pines and mixed forest when breeding/

roosting—open habitat when foraging

 $\textbf{Breeding Bird Atlas:}\ \textit{Widespread}\ (PR/12, CO/21)$



Fish Crow Corvus ossifragus

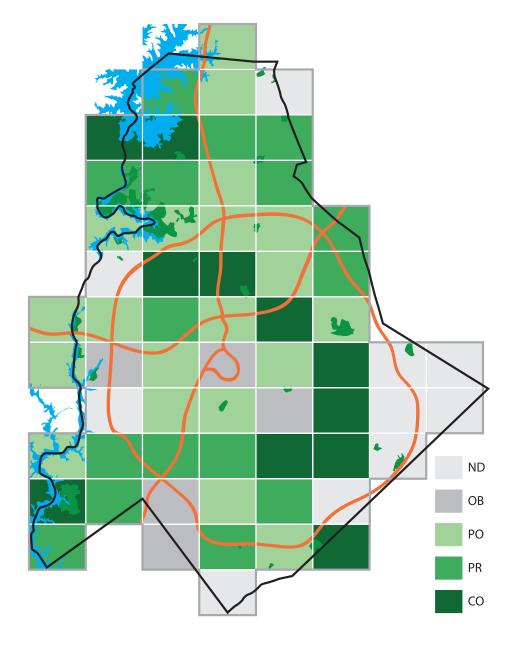


Status: Breeder, Migrant, increasing Winter Resident

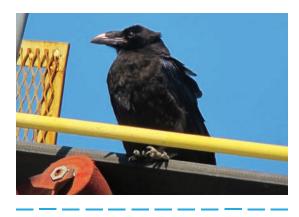
Abundance: Common

Habitat: Lakes, ponds, landfills, shopping centers, residential neighborhoods

Breeding Bird Atlas: Fairly Widespread (PR/16, CO/11)



Common Raven Corvus corax



Status: Resident

Abundance: Rare to Uncommon

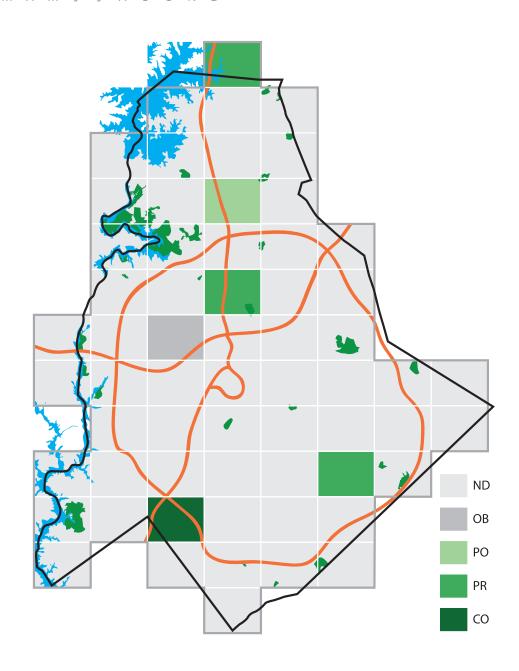
Habitat: Breeds on ledges in local rock quarries—forages

in open areas

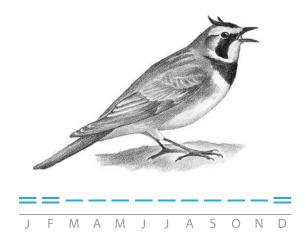
Breeding Bird Atlas: *Local* (PR/3, CO/1)

New Breeding Bird: First confirmed nesting March 2010.

Now nests annually.



Horned Lark Eremophila alpestris



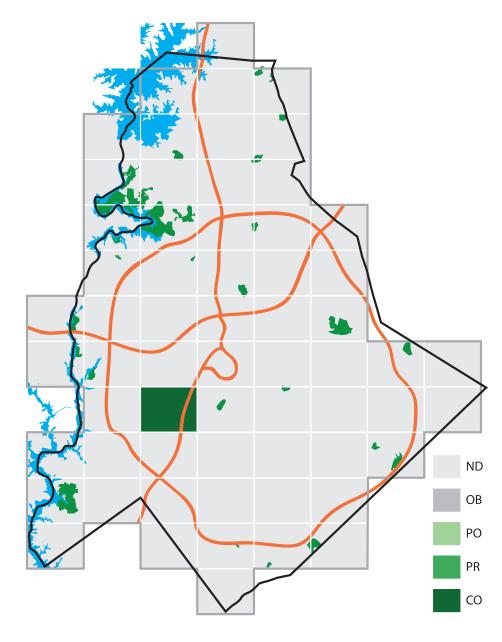
Status: Resident

Abundance: Rare to Uncommon

Habitat: Barren stubble fields, closely cropped pasture, patches of dirt and fine gravel, airports, poorly maintained athletic fields

Breeding Bird Atlas: Very Local (PR/0, CO/1)





Purple Martin *Progne subis*



0

Status: Breeder

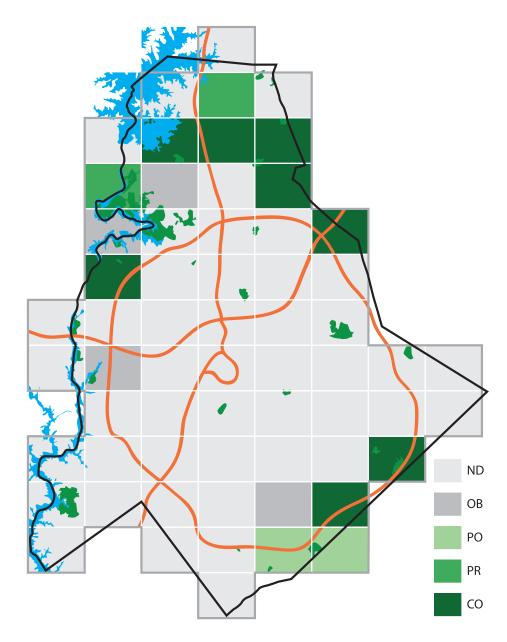
Abundance: Uncommon to Fairly Common

Habitat: Open country with man-made gourds or nest

boxes

Breeding Bird Atlas: Somewhat Local (PR/2, CO/8)





Tree Swallow *Tachycineta bicolor*



Status: Migrant, local Breeder, Winter Visitor

Abundance: Uncommon to Fairly Common

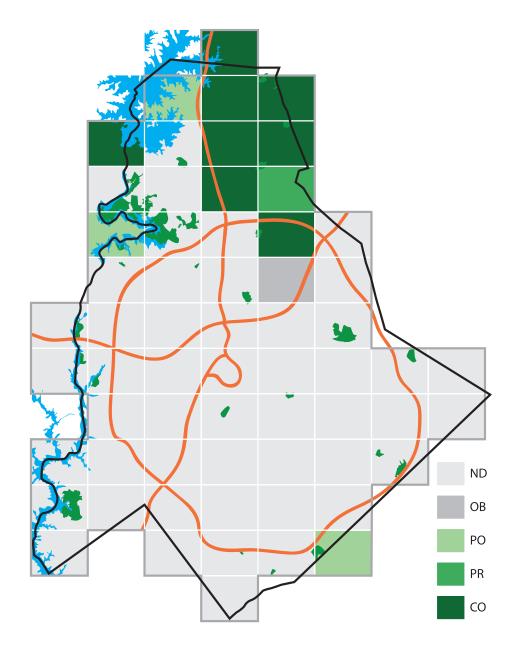
Habitat: Open water, fields

Breeding Bird Atlas: *Local* (PR/1, CO/8)

New Breeding Bird: First confirmed nesting June 2003.

Now nests annually.





Northern Rough-winged Swallow *Stelgidopteryx serripennis*

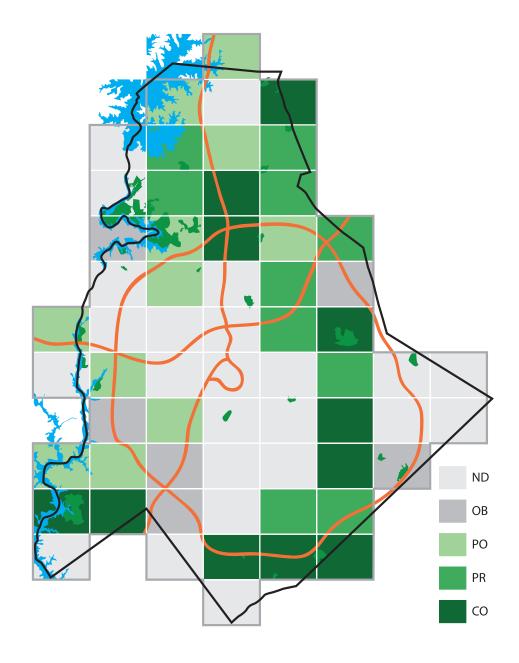


Status: Breeder

Abundance: Fairly Common

Habitat: Open water, fields

Breeding Bird Atlas: Fairly Widespread (PR/10, CO/11)



Cliff Swallow Petrochelidon pyrrhonota



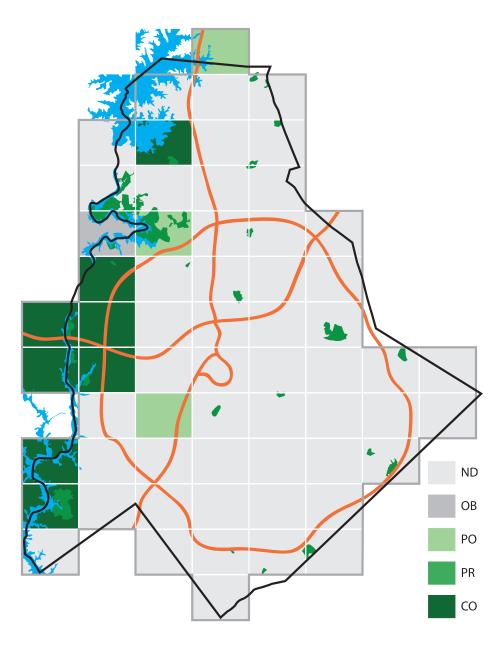
Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Open water, fields

Breeding Bird Atlas: *Local* (PR/0, CO/8)





Barn Swallow Hirundo rustica

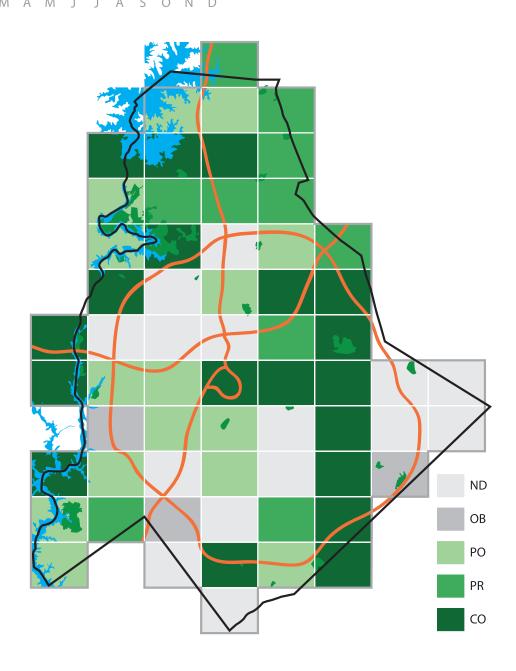


Status: Breeder

Abundance: Common

Habitat: Open water, fields

Breeding Bird Atlas: Fairly Widespread (PR/10, CO/19)



Carolina Chickadee *Poecile carolinensis*

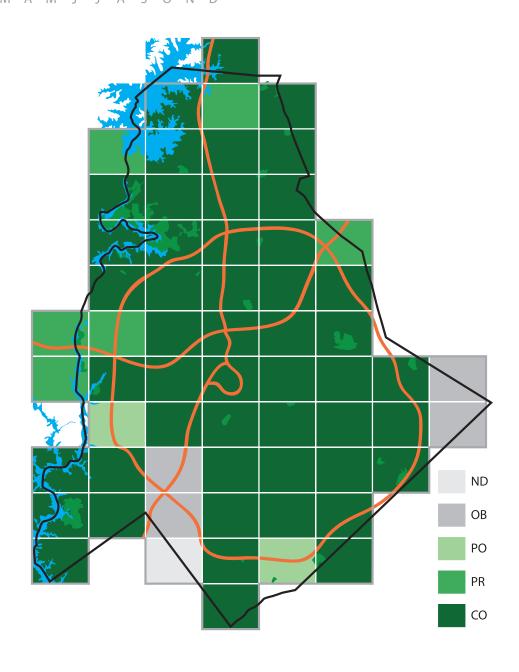


Status: Resident

Abundance: Very Common

Habitat: Forest, parks, wooded neighborhoods

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/6, CO/49)



Tufted Titmouse Baeolophus bicolor

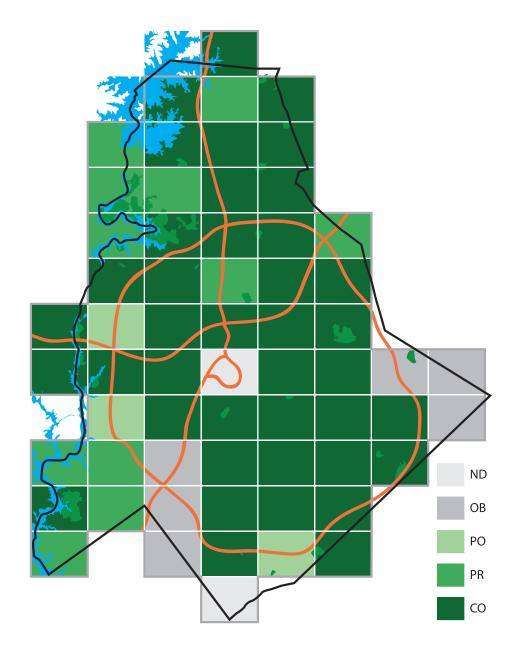


Status: Resident

Abundance: Very Common

Habitat: Forest, parks, wooded neighborhoods

Breeding Bird Atlas: Nearly Ubiquitous (PR/11, CO/40)



White-breasted Nuthatch *Sitta carolinensis*

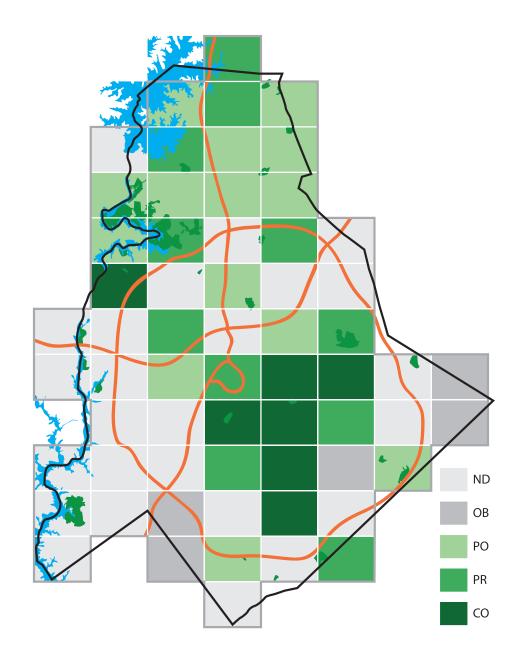


Status: Resident

Abundance: Fairly Common

Habitat: Mature forests

Breeding Bird Atlas: *Somewhat Local* (PR/11, CO/7)



Brown-headed Nuthatch *Sitta pusilla*

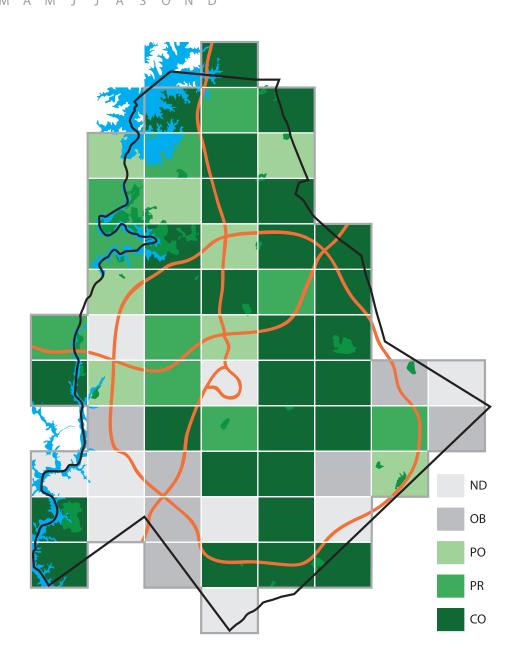


Status: Resident

Abundance: Uncommon to Fairly Common

Habitat: Coniferous or mixed woods

Breeding Bird Atlas: *Widespread* (PR/10, CO/28)



House Wren Columba livia

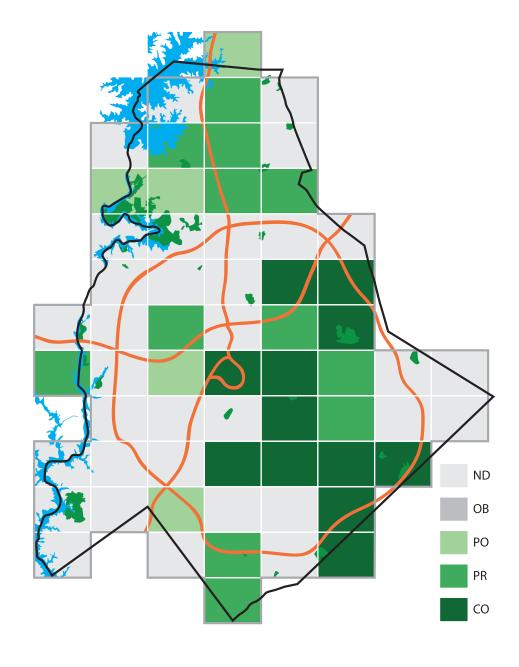


Status: Breeder, Winter Visitor

Abundance: Fairly Common

Habitat: Brushy areas in cities, towns, farmland

Breeding Bird Atlas: Fairly Widespread (PR/12, CO/12)



Carolina Wren Thryothorus ludovicianus



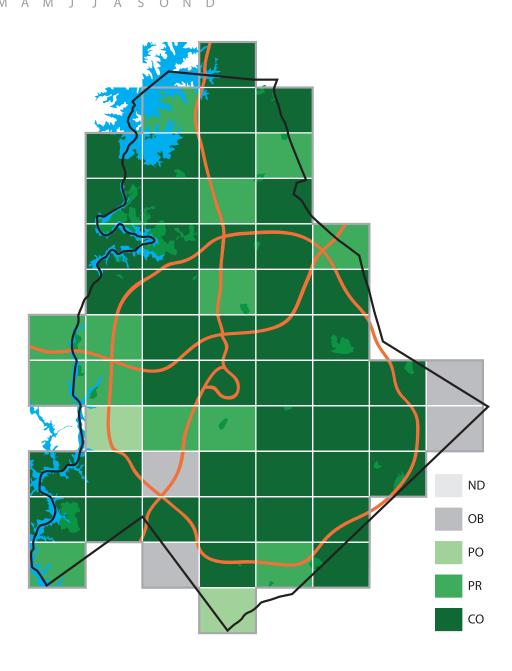
Status: Resident

Abundance: Very Common

Habitat: Woodlands, overgrown fields, field edges,

residential areas

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/13, CO/43)



Blue-gray Gnatcatcher *Polioptila caerulea*



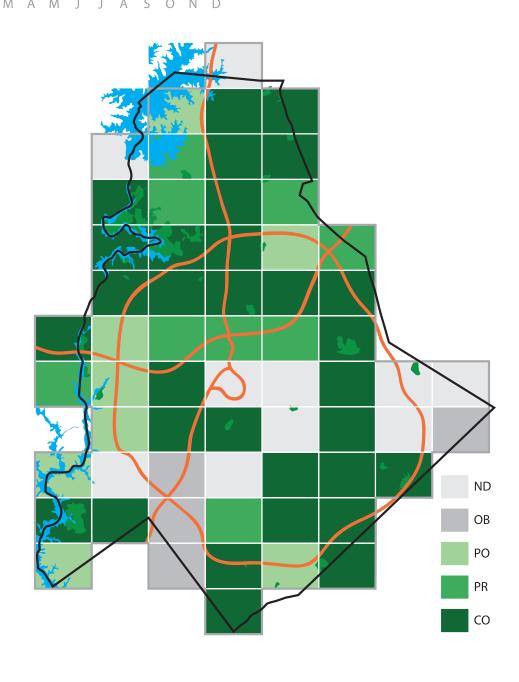
Status: Breeder

Abundance: Common

Habitat: Deciduous forests and woodlands, often near

water

Breeding Bird Atlas: *Widespread* (PR/9, CO/31)



Eastern Bluebird Sialia sialis

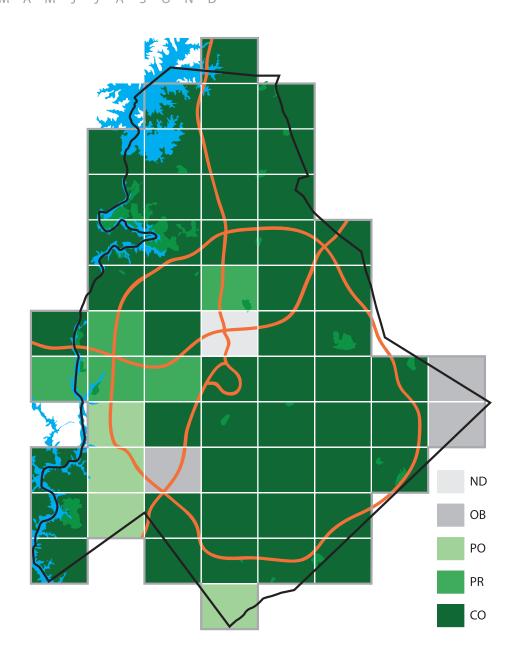


Status: Resident

Abundance: Common to Very Common

Habitat: Open habitat; including fields, farmland, residential areas, golf courses, parks, forest edge

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/5, CO/49)



Wood Thrush *Hylocichla mustelina*



Status: Breeder

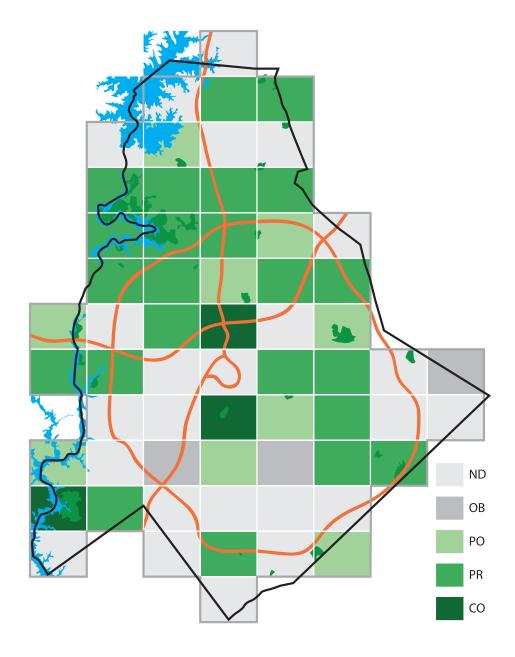
Abundance: Uncommon to Fairly Common

Habitat: Deciduous forests with developed understory

and forested neighborhoods

Breeding Bird Atlas: Fairly Widespread (PR/23, CO/3)





American Robin Turdus migratorius



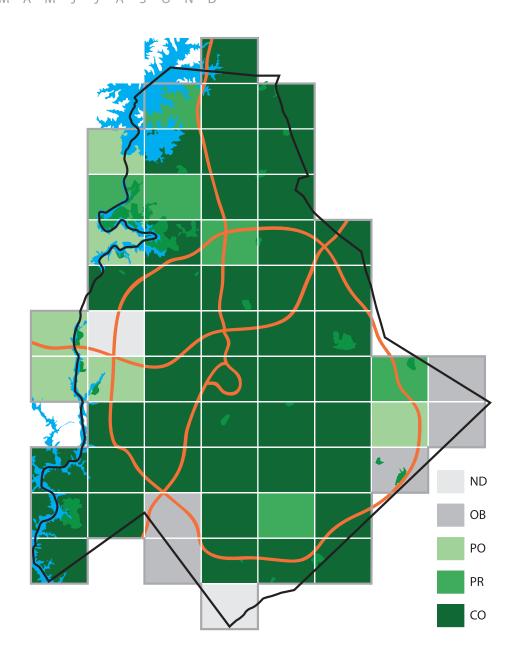
Status: Resident

Abundance: Very Common to Abundant

Habitat: Trees and shrubs, open lawns, farmland,

residential areas, parks, and more

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/6, CO/43)



Gray Cathird Dumetella carolinensis

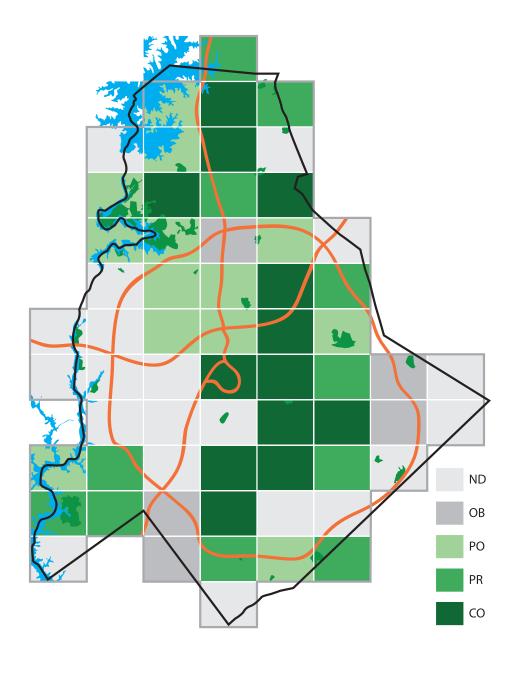


Status: Breeder, Winter Visitor

Abundance: Fairly Common

Habitat: Thickets (often moist), shrubs, residential areas

Breeding Bird Atlas: Fairly Widespread (PR/11, CO/13)



Brown Thrasher Toxostoma rufum



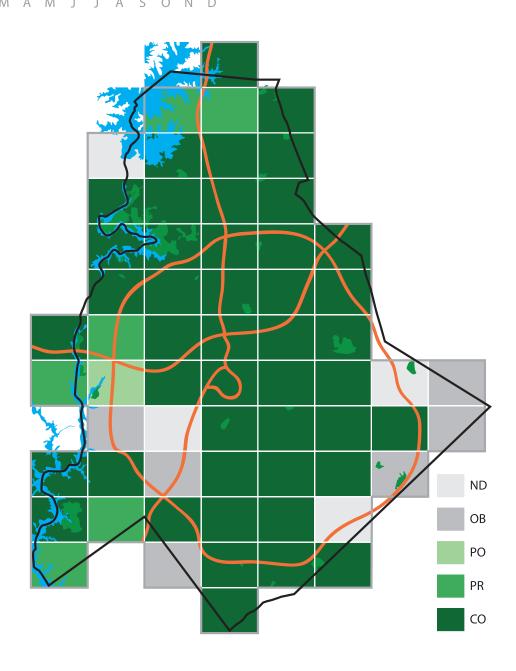
Status: Resident

Abundance: Common

Habitat: Brushy habitat, field edges, thickets (often dry),

residential areas

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/6, CO/45)



$\textbf{Northern Mockingbird} \ \textit{Mimus polyglottos}$



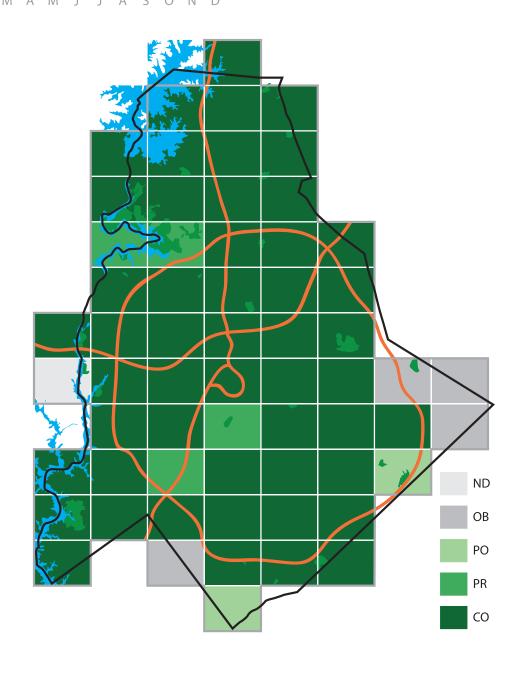
Status: Resident

Abundance: Very Common

Habitat: Urban areas, open residential areas, open farm

land

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/4, CO/51)



European Starling Columba livia

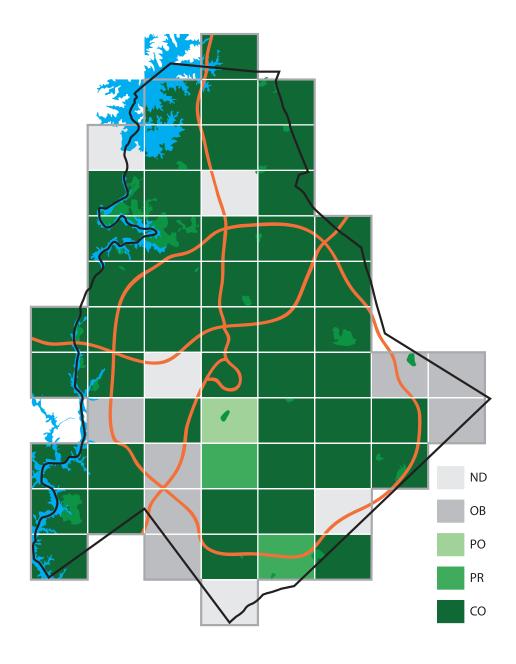


Status: Resident

Abundance: Abundant

Habitat: Urban areas, farmland

Breeding Bird Atlas: Nearly Ubiquitous (PR/2, CO/47)



$\textbf{Cedar Waxwing} \ \textit{Bomby cilla cedrorum}$



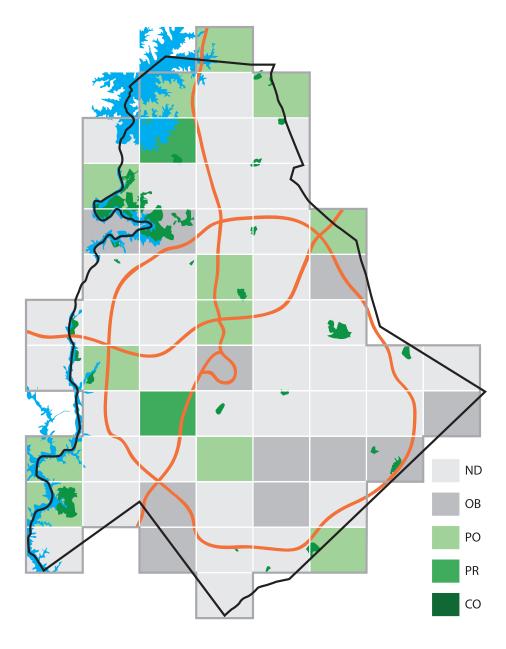
Status: Winter Resident, sporadic Breeder

Abundance: Common

Habitat: Scattered trees in open woods with fruit bearing

trees, urban areas with ornamental berry crops

Breeding Bird Atlas: Very Local (PR/2, CO/0)



Ovenbird Seiurus aurocapilla



Status: Migrant, Breeder, Winter Visitor

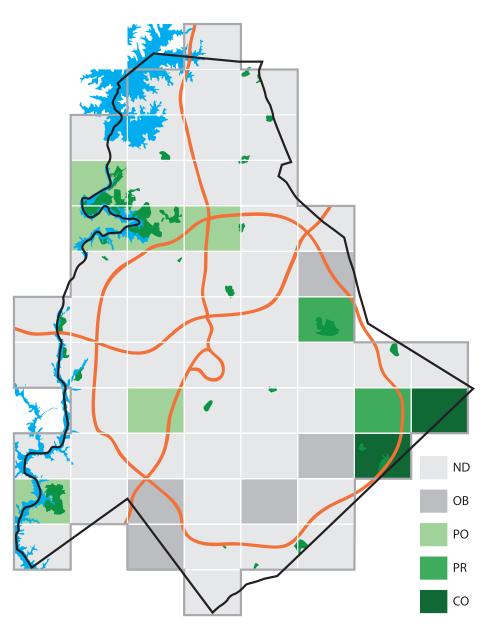
Abundance: Fairly Common to Common

Habitat: Upland forests

Breeding Bird Atlas: *Local* (PR/2, CO/2)







Worm-eating Warbler Helmitheros vermivorum

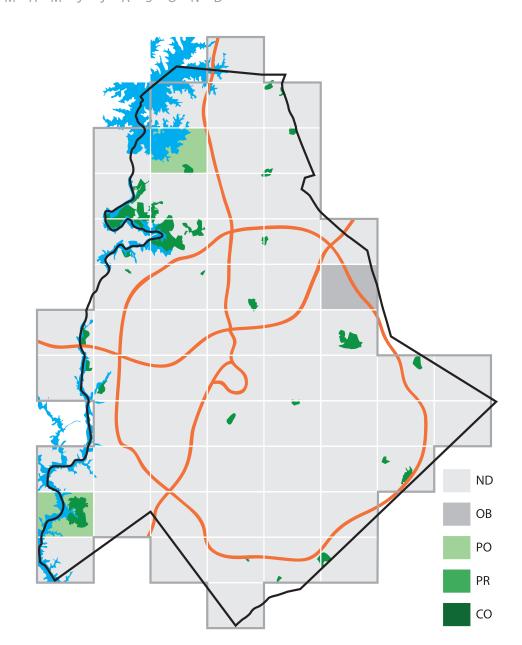


Status: Migrant and local Breeder

Abundance: Uncommon

Habitat: Hillsides and ravines in mature deciduous or mixed forest (often dry) with evergreen shrubs

Breeding Bird Atlas: *UNCERTAIN—Possible* (PR/0, CO/0)



Louisiana Waterthrush Parkesia motacilla



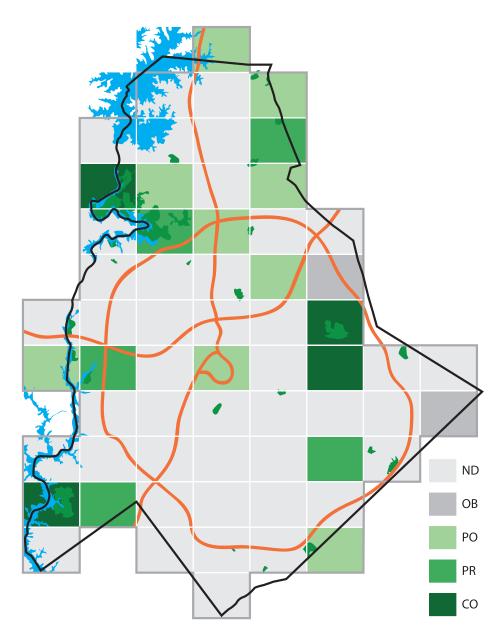
Status: Migrant, Breeder

Abundance: Uncommon to Fairly Common

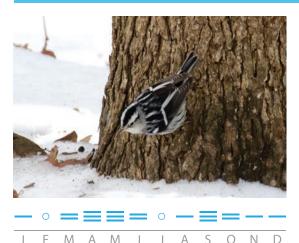
Habitat: Forests with rocky streams, riparian zones

Breeding Bird Atlas: *Local* (PR/5, CO/4)





Black-and-white Warbler *Mniotilta varia*



Status: Migrant, Breeder, Winter Visitor

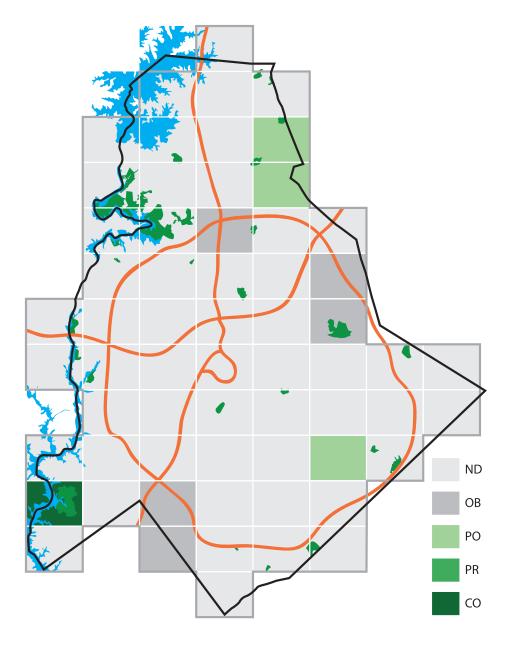
Abundance: Uncommon to Fairly Common

Habitat: Mature deciduous forests, mixed pine-hardwood

forest, stream bottoms in the Piedmont

Breeding Bird Atlas: Very Local (PR/0, CO/1)





Prothonotary Warbler *Protonotaria citrea*



Status: Breeder

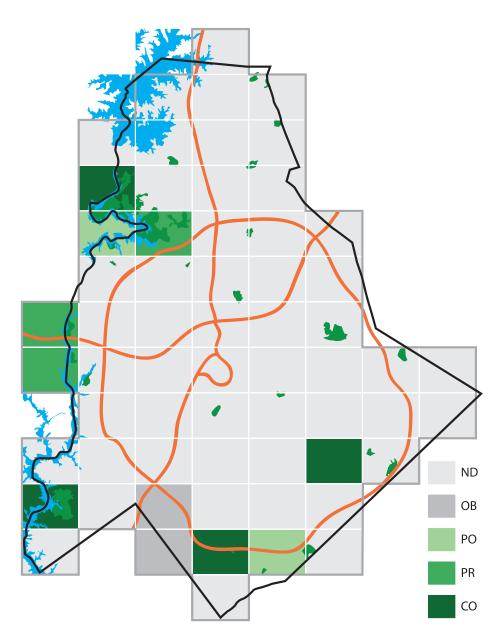
Abundance: Uncommon to Fairly Common

Habitat: River and lake edges, bottomland floodplain forests, especially with standing water and stumps

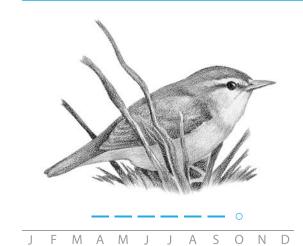
Breeding Bird Atlas: Local (PR/3, CO/4)



Vulnerable



$\textbf{Swainson's Warbler} \ \textit{Limnothlypis swainsonii}$



Status: Migrant, Breeder

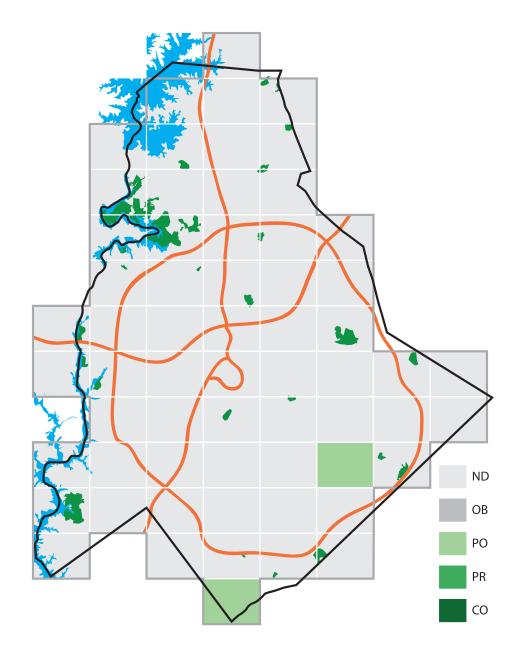
Abundance: Rare to Uncommont

Habitat: Bottomland, floodplain forests with river cane

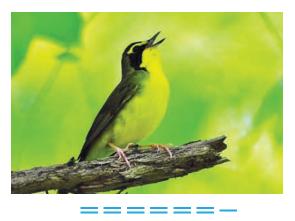
Breeding Bird Atlas: *Possible* (PR/0, CO/0)

New Breeding Bird: First suspected nesting May 2006. Not

currently believed to be nesting.



Kentucky Warbler Columba livia



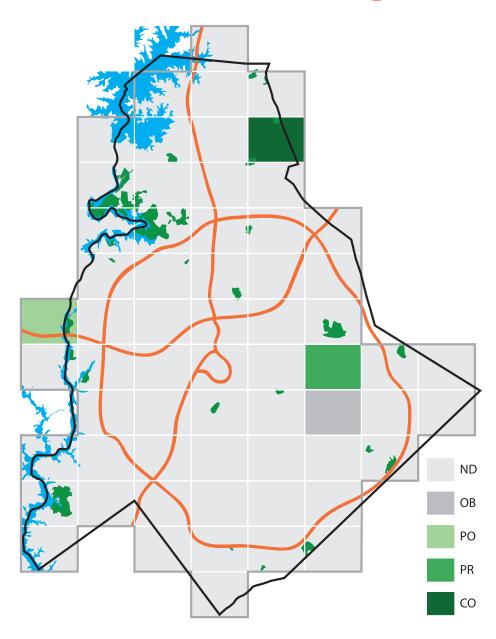
Status: Breeder

Abundance: Uncommon

Habitat: Deciduous forests (moist)

Breeding Bird Atlas: Very Local (PR/1, CO/1)





$\textbf{Common Yellowthroat} \ \textit{Geothlypis trichas}$



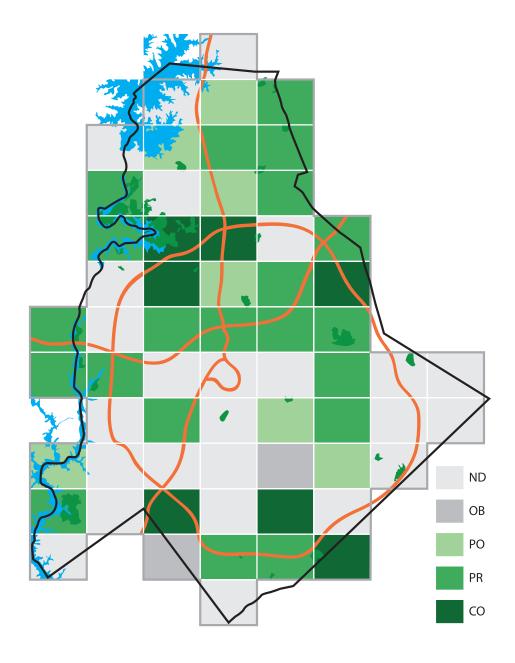
Status: Breeder, Winter Visitor

Abundance: Common

Habitat: Brushy thickets, abandoned fields, woodland

edges (usually moist), wetland edges

Breeding Bird Atlas: Fairly Widespread (PR/21, CO/7)



Hooded Warbler Setophaga citrine



Status: Breeder

Abundance: Fairly Common to Common

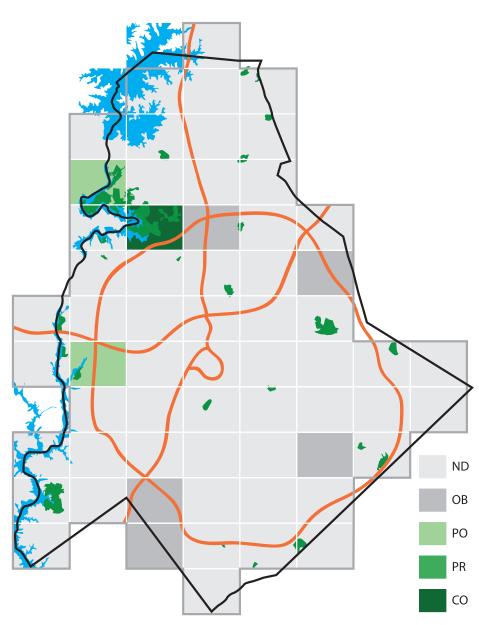
Habitat: Rich, deciduous or mixed forests (moist) or

occasionally mature pine forests

Breeding Bird Atlas: Very Local (PR/0, CO/1)







American Redstart Setophaga ruticilla



Status: Migrant, local Breeder

Abundance: Common in migration

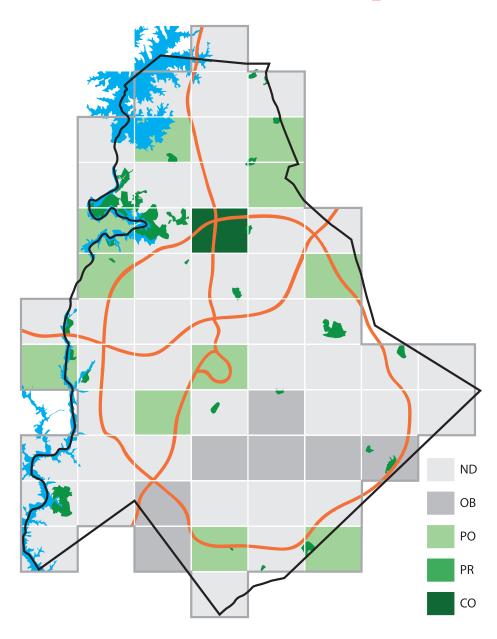
Habitat: Bottomland hardwoods, wide creek floodplains,

moist deciduous forest slopes

Breeding Bird Atlas: Very Local (PR/0, CO/1)







Northern Parula Setophaga americana

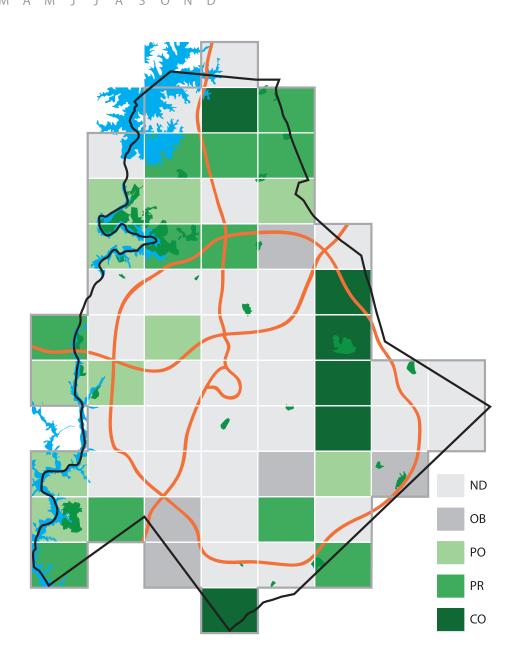


Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Bottomland forests—damp, low woods

Breeding Bird Atlas: Somewhat Local (PR/11, CO/6)



Yellow Warbler Setophaga petechial



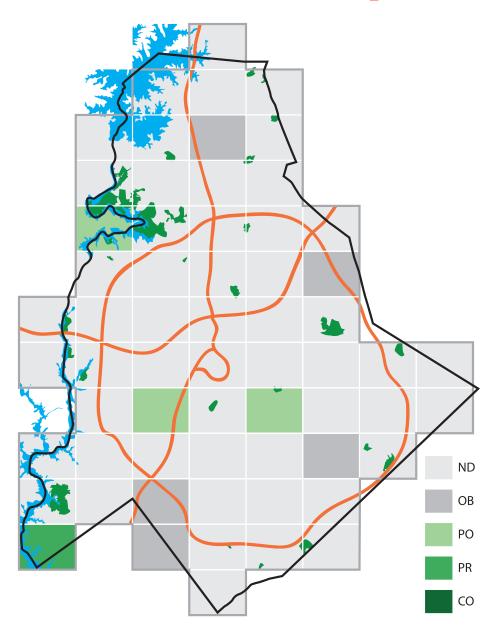
Status: Migrant, local Breeder

Abundance: Rare to Uncommon

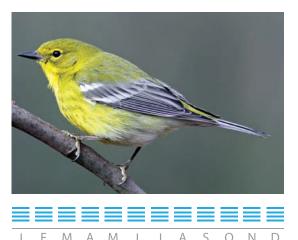
Habitat: Shrubby thickets, willows, groves, open areas

Breeding Bird Atlas: Very Local (PR/1, CO/0)





Pine Warbler Setophaga pinus

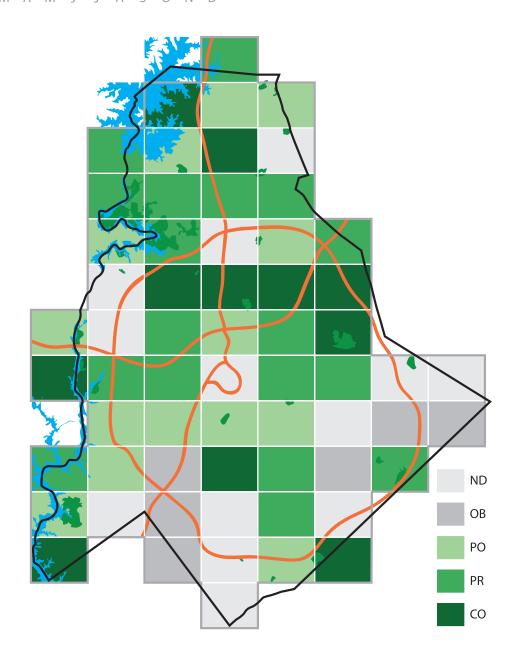


Status: Resident

Abundance: Common

Habitat: Pine forests

Breeding Bird Atlas: Fairly Widespread (PR/18, CO/11)



Yellow-throated Warbler *Setophaga dominica*



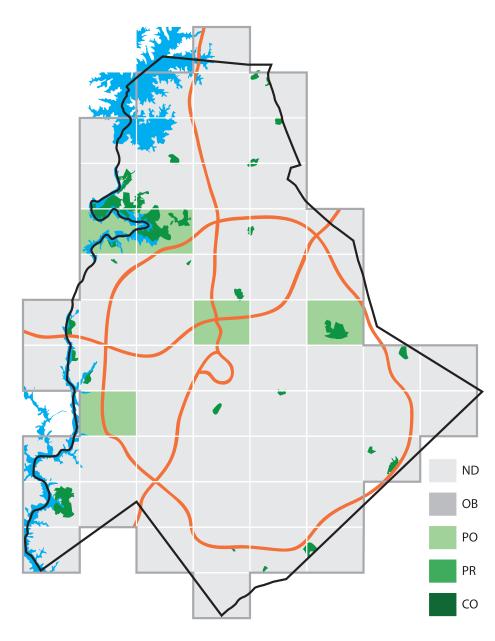
Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Mature open forest, bottomland forest or pinewoods and mixed hardwoods, all below 2,000 feet

Breeding Bird Atlas: Possible (PR/0, CO/0)





Prairie Warbler Setophaga discolor



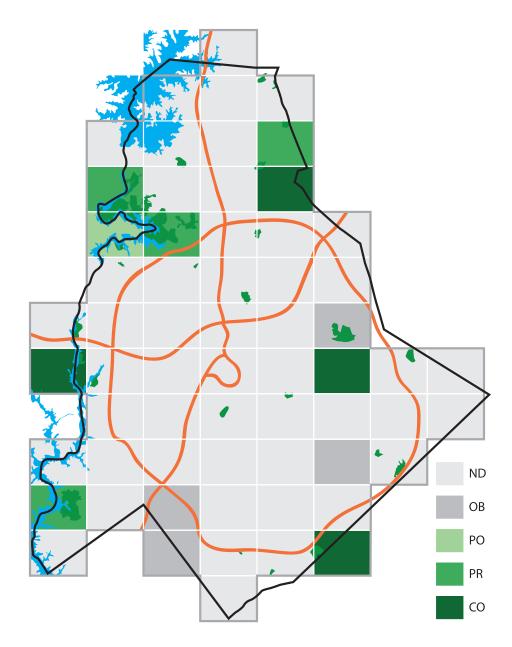
Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Open fields, right-of-ways

Breeding Bird Atlas: *Local* (PR/4, CO/4)





Yellow-breasted Chat *Icteria virens*



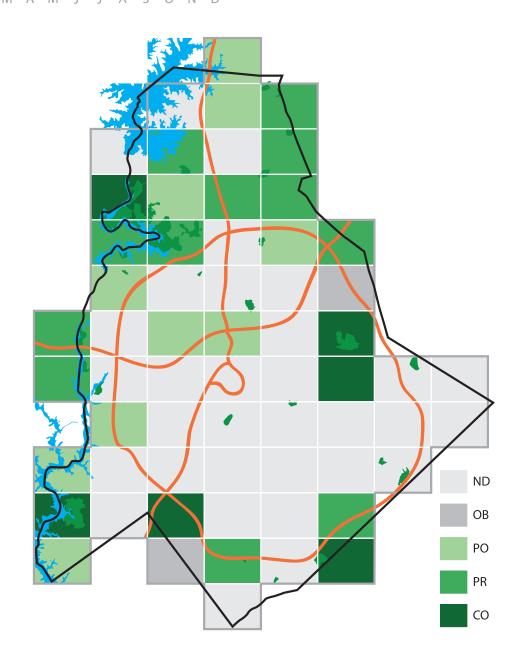
Status: Breeder

Abundance: Fairly Common to Common

Habitat: Early successional fields, briar thickets along

woodland edges

Breeding Bird Atlas: *Somewhat Local* (PR/12, CO/6)



Eastern Towhee Pipilo erythrophthalmus



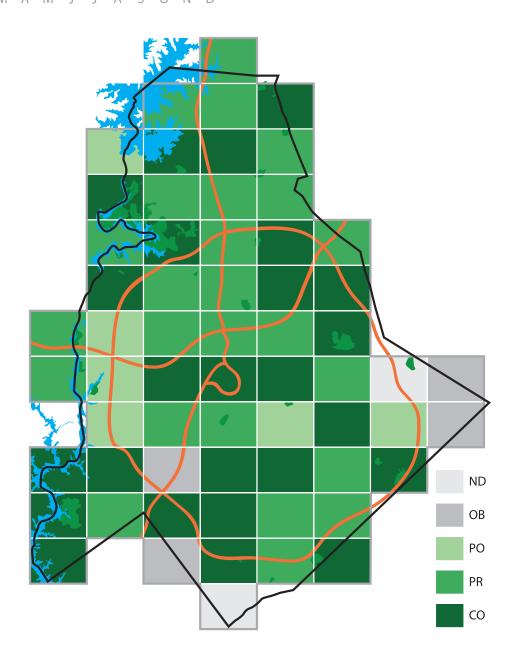
Status: Resident

Abundance: Common

Habitat: Thickets, shrubs, saplings, woodland understory

and edge, shrubs in neighborhoods

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/25, CO/25)



Chipping Sparrow *Spizella passerine*



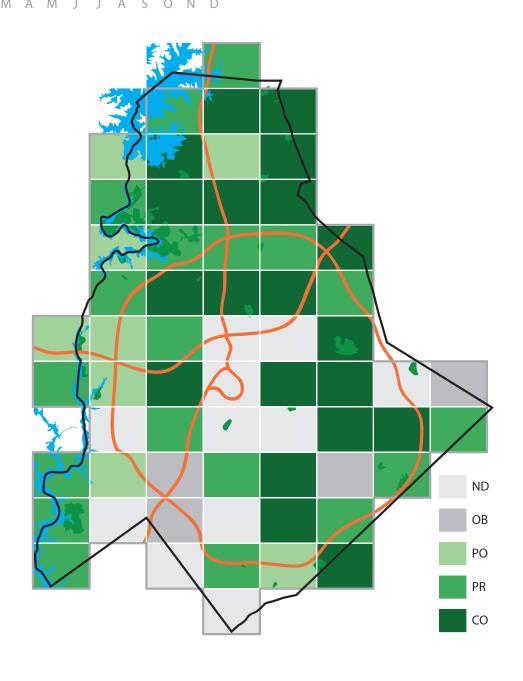
Status: Resident

Abundance: Very Common

Habitat: Wooded residential areas, scattered trees with

short grass, parks, golf courses

Breeding Bird Atlas: *Widespread* (PR/19, CO/20)



Field Sparrow Spizella pusilla

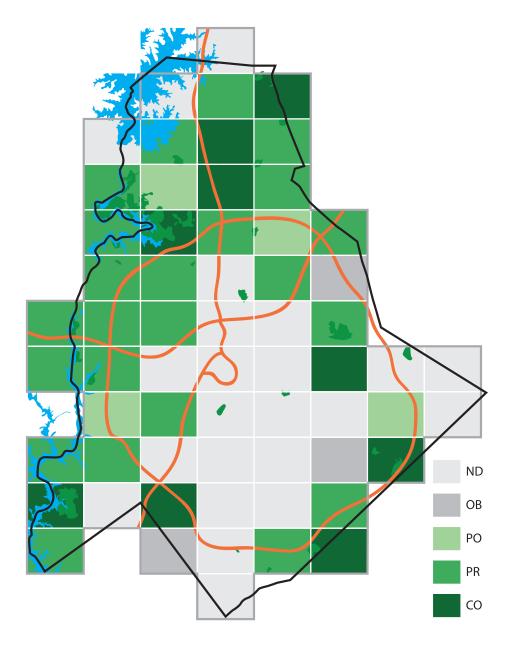


Status: Resident

Abundance: Fairly Common to Common

Habitat: Old fields, wood margins, hedgerows, thickets

Breeding Bird Atlas: *Widespread* (PR/23, CO/9)



Grasshopper Sparrow Ammodramus savannarum



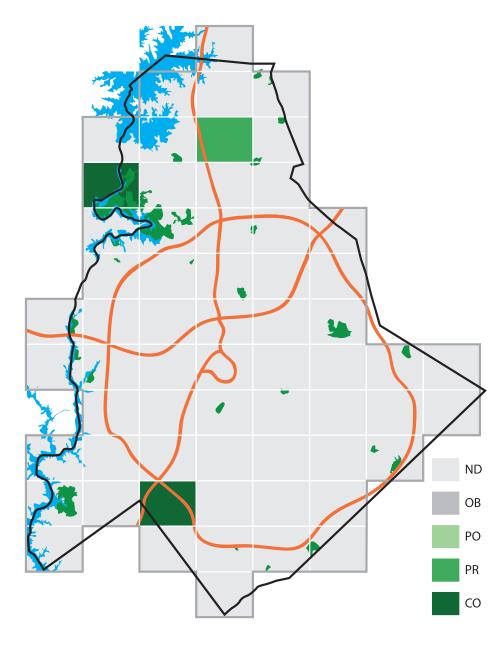
Status: Breeder, Winter Visitor

Abundance: Uncommon

Habitat: Open grassy fields during breeding

Breeding Bird Atlas: Very Local (PR/1, CO/2)





Song Sparrow Melospiza melodia



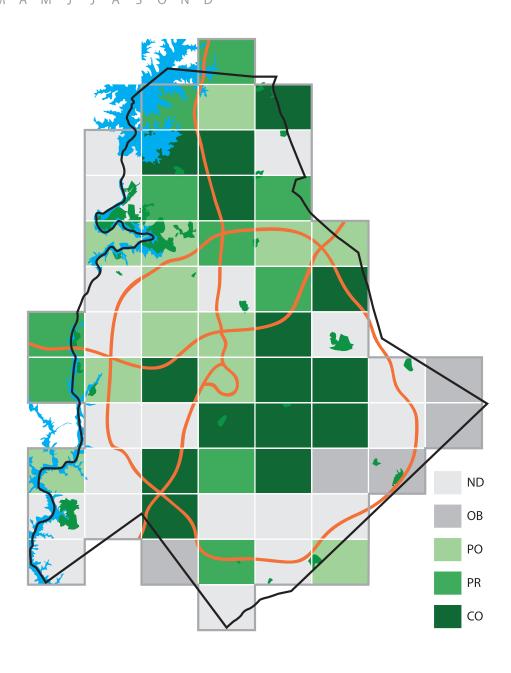
Status: Resident

Abundance: Common to Very Common

Habitat: Brushy thickets, shrubby areas, residential areas,

parks, farms

Breeding Bird Atlas: Fairly Widespread (PR/10, CO/15)



Summer Tanager *Piranga rubra*



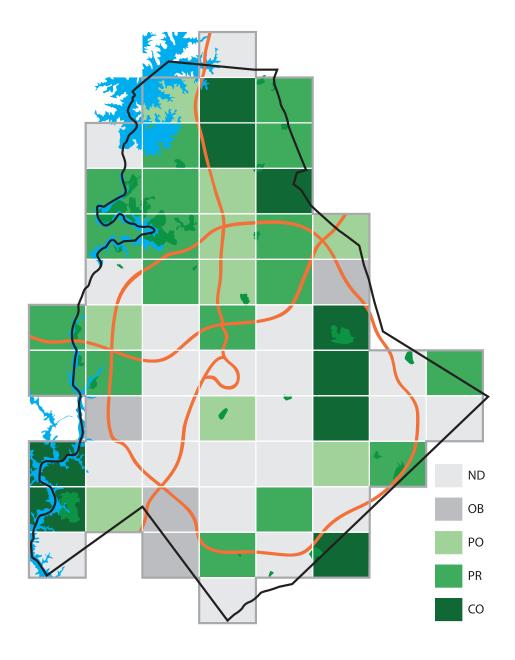
Status: Breeder

Abundance: Fairly Common to Common

Habitat: Open dry pine or mixed hardwood forests, wooded residential areas

Breeding Bird Atlas: Fairly Widespread (PR/18, CO/9)





Scarlet Tanager Piranga olivacea



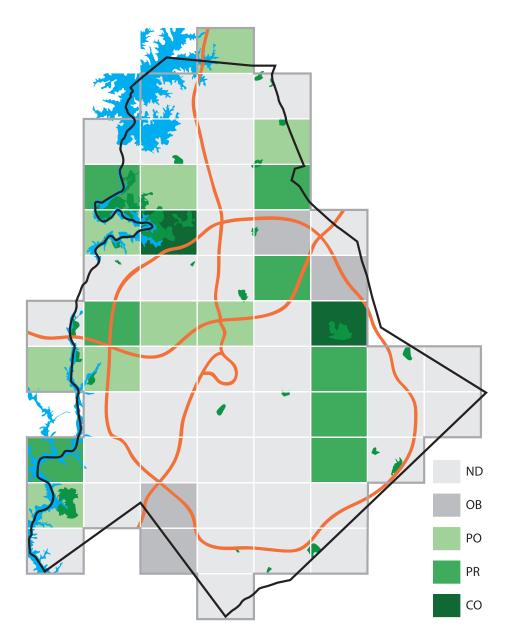
Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Mature, deciduous forests often in uplands

Breeding Bird Atlas: Somewhat Local (PR/8, CO/2)





Northern Cardinal Cardinalis cardinalis



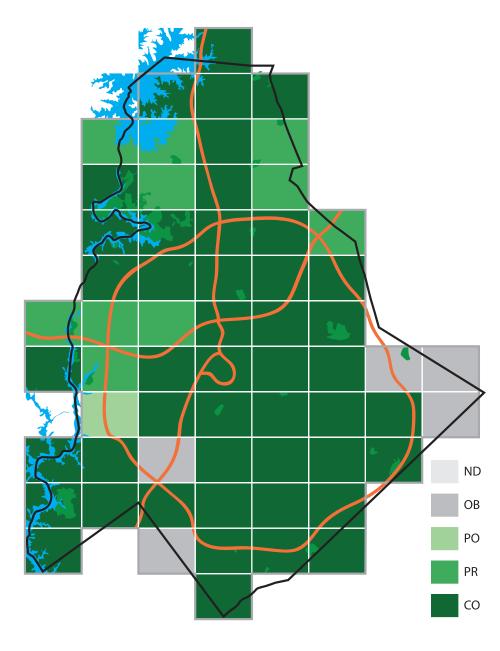
Status: Resident

Abundance: Very Common

Habitat: Open woods, forest edge, thickets, residential

neighborhoods

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/10, CO/46)



Blue Grosbeak Passerina caerulea



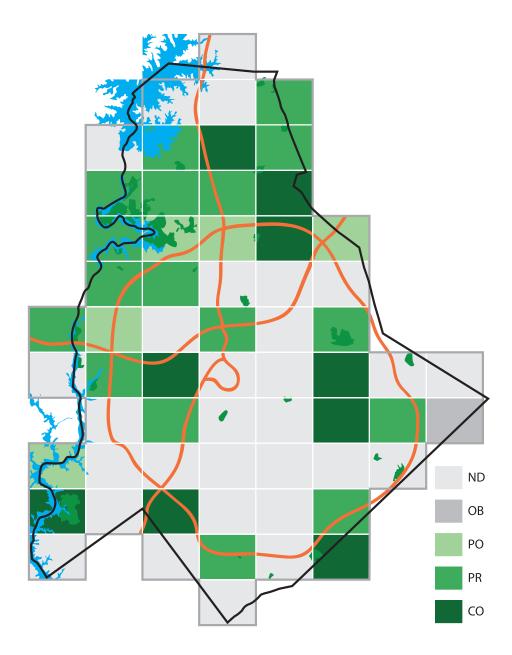
Status: Breeder

Abundance: Fairly Common to Common

Habitat: Old fields full of saplings, brushy thickets, forest

edge

Breeding Bird Atlas: Fairly Widespread (PR/7, CO/9)



Indigo Bunting Passerina cyanea



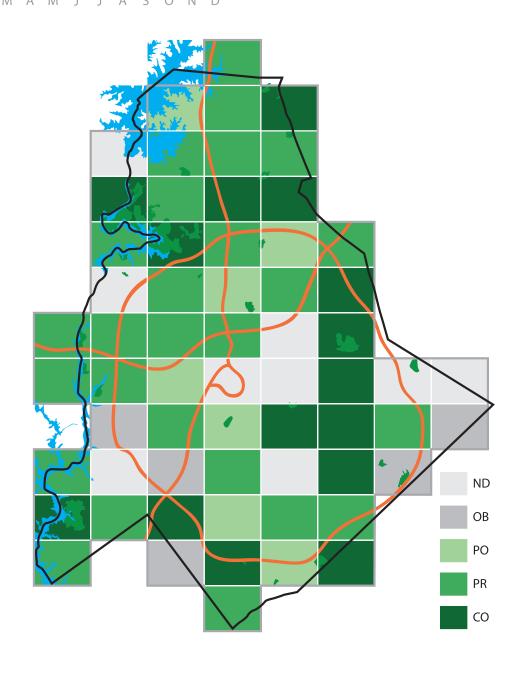
Status: Breeder

Abundance: Very Common

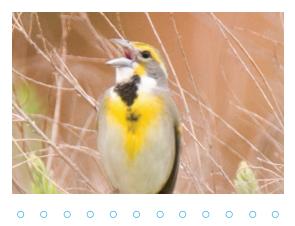
Habitat: Overgrown fields with scattered trees, forest

edge, and clearings

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/26, CO/15)



Dickcissel Spiza americana



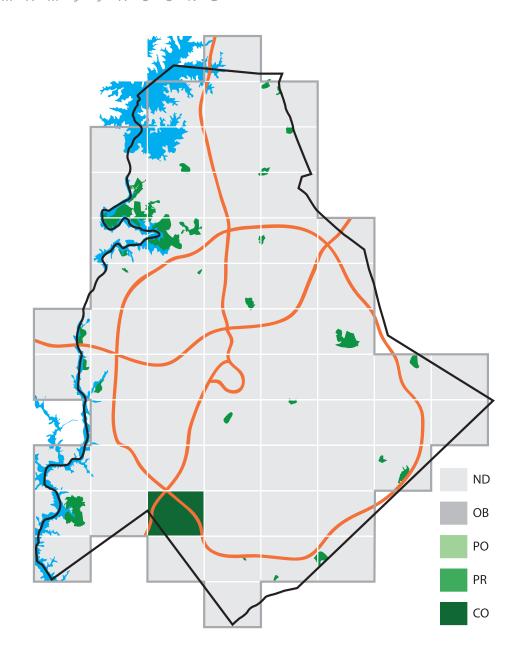
Status: Sporadic Breeder, Winter Visitor

Abundance: Rare

Habitat: Open grassy fields for breeding and hedgerows and thickets in winter

Breeding Bird Atlas: Very Local (PR/0, CO/1)

New Breeding Bird: First confirmed nesting May 2011, sporadic breeder, not expected to establish a long-term breeding population here.



Red-winged Blackbird *Agelaius phoeniceus*



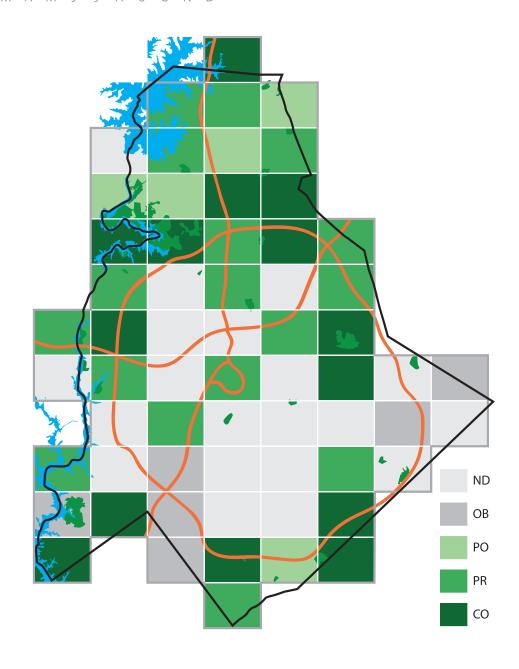
Status: Resident

Abundance: Common to locally Abundant in winter

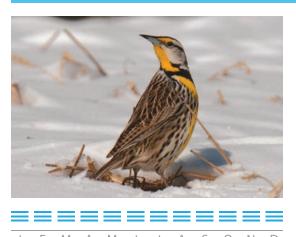
Habitat: Edges of marshes, lakes, and ponds; forages in

open grassy fields; roosts in thick woodlands

Breeding Bird Atlas: *Widespread* (PR/17, CO/14)



Eastern Meadowlark *Placeholder*

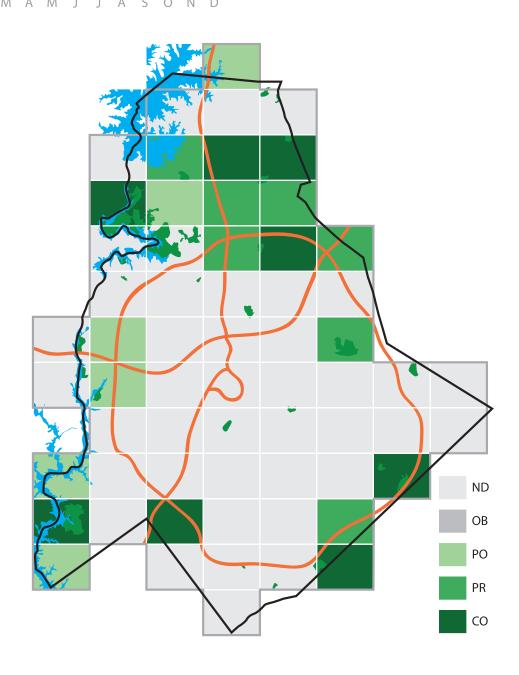


Status: Resident

Abundance: Fairly Common to Common

Habitat: Fields, pastures, all grassland areas

Breeding Bird Atlas: *Somewhat Local* (PR/7, CO/8)



Common Grackle Quiscalus quiscula

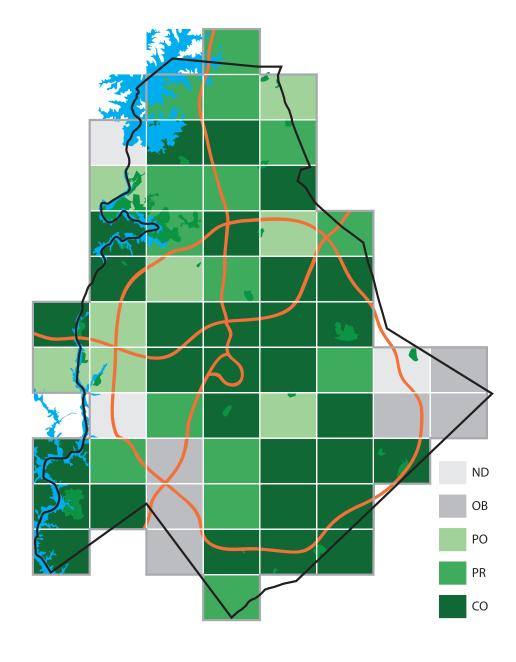


Status: Resident

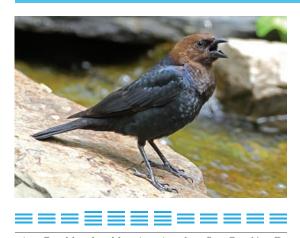
Abundance: Common to Abundant

Habitat: Pine woods and dense woods for nesting or roosting; forages in croplands, fields

Breeding Bird Atlas: Nearly Ubiquitous (PR/15, CO/30)



Brown-headed Cowbird *Molothrus ater*



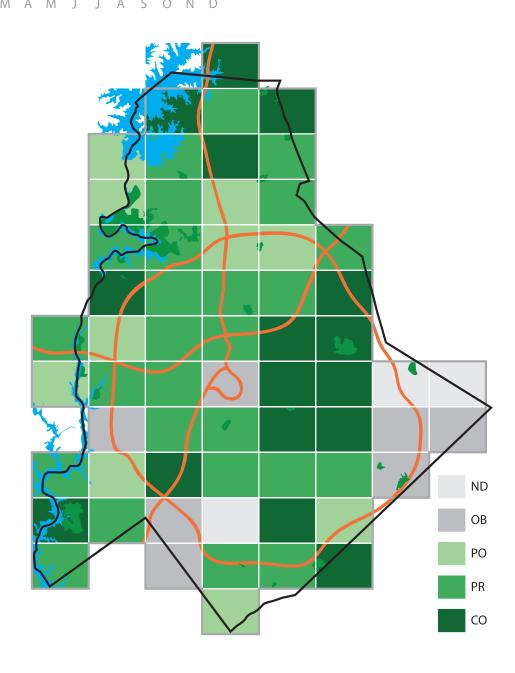
Status: Resident

Abundance: Fairly Common to Common

Habitat: Open woods, residential areas, farms, pastures,

plowed fields

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/26, CO/16)



Orchard Oriole *Icterus spurius*



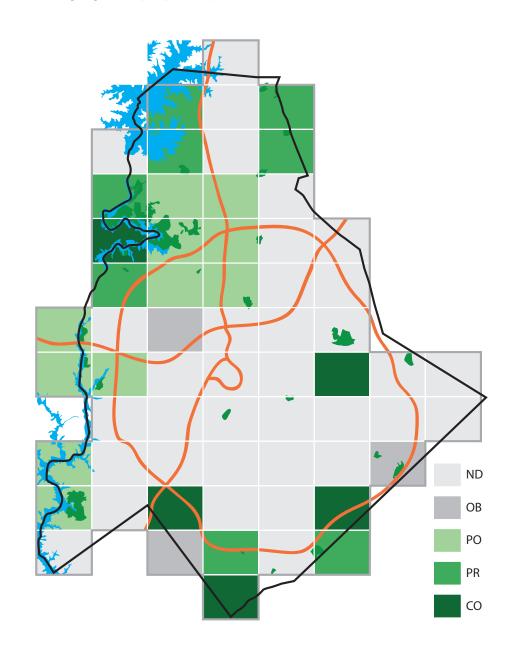
Status: Breeder

Abundance: Uncommon to Fairly Common

Habitat: Scattered hardwoods in open country,

farmyards, woodland edge

Breeding Bird Atlas: Somewhat Local (PR/8, CO/5)



Baltimore Oriole Icterus galbula



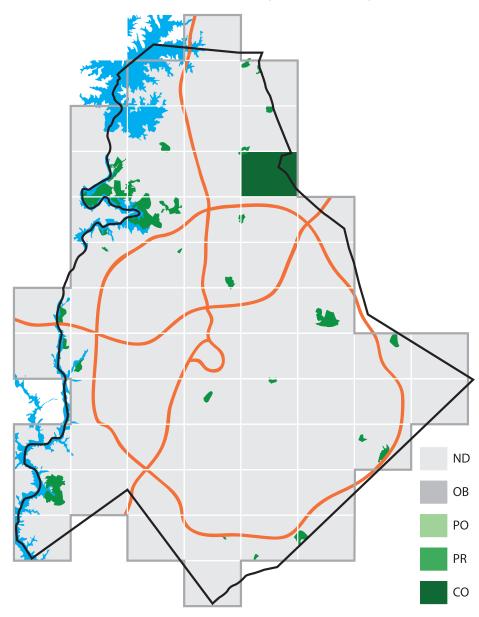
Status: Migrant, Winter Resident, sporadic Breeder

Abundance: Uncommon in migration and winter, Very Rare during breeding season

Habitat: Scattered hardwoods or open country during migration and riparian borders for breeding; bird feeders in winter

Breeding Bird Atlas: Very Local (PR/0, CO/1)

New Breeding Bird: Two confirmed nest attempts: 1) The Dilworth area in May 1926 and 2) The Highland Creek area, 87 years later, in May 2013.



D

House Finch *Haemorhous mexicanus*

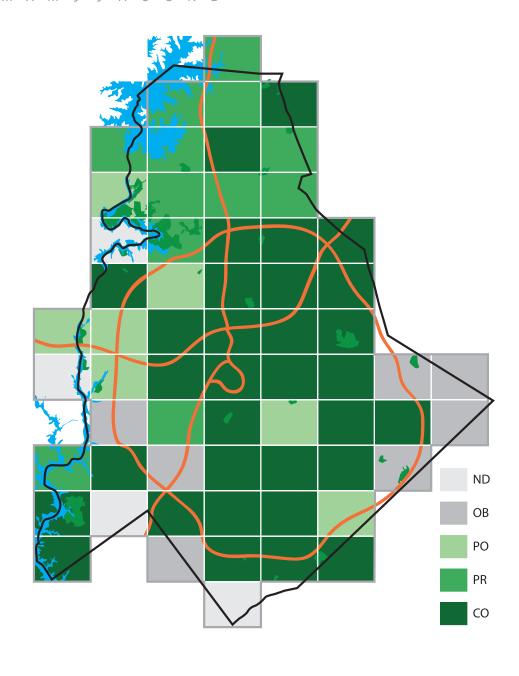


Status: Resident

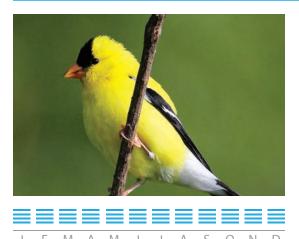
Abundance: Very Common

Habitat: Urban and suburban areas, farms and brushy thickets in more rural areas

Breeding Bird Atlas: *Nearly Ubiquitous* (PR/12, CO/32)



American Goldfinch Spinus tristis

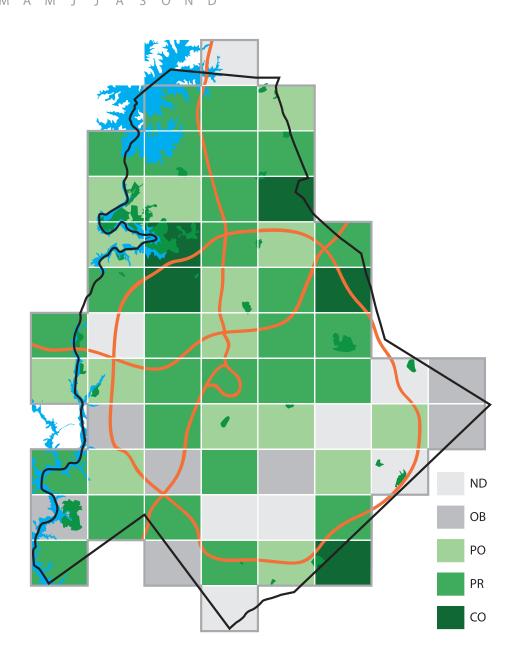


Status: Resident

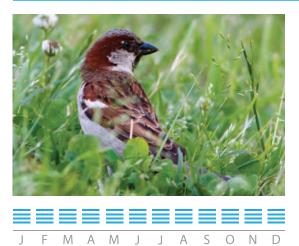
Abundance: Common during breeding and Very Common to Abundant in winter

Habitat: Overgrown fields, shrubs bordering ponds, widespread in various habitats in winter

Breeding Bird Atlas: *Widespread* (PR/27, CO/5)



House Sparrow Passer domesticus



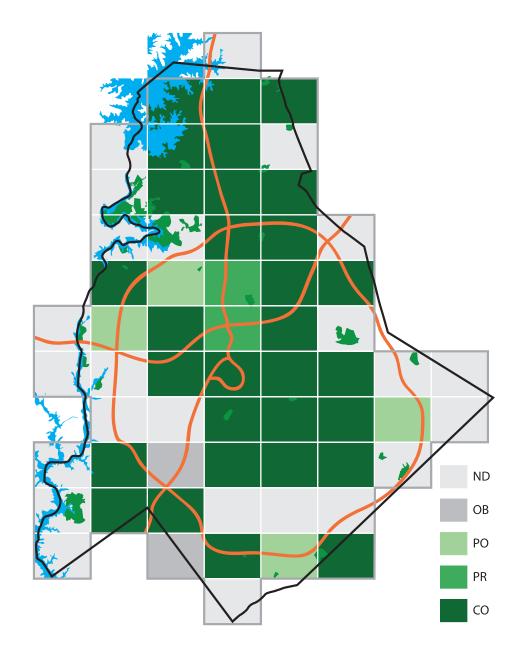
Status: Resident

Abundance: Very Common to Abundant

Habitat: Human settlements: cities, towns, farms, open

neighborhoods

Breeding Bird Atlas: *Widespread* (PR/2, CO/30)



APPENDICES

Checklist of the Birds of Mecklenburg County, North Carolina

October 2017¹

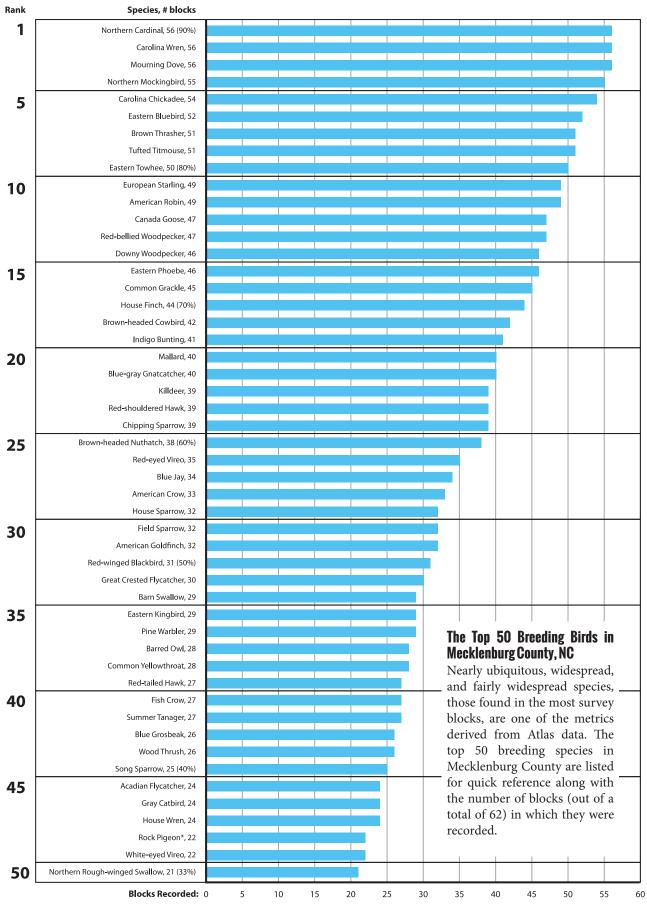
Atlas maps were prepared for each species highlighted in bold print. Birds with an asterisk (*) are former breeding birds with no Atlas map.

Snow Goose Chen caerulescens	Little Blue Heron <i>Egretta caerulea</i>
Ross's Goose Chen rossii	Tricolored Heron <i>Egretta tricolor</i>
Canada Goose Branta canadensis	Cattle Egret Bubulcus ibis
Tundra Swan Cygnus columbianus	Green Heron Butorides virescens
Wood Duck Aix sponsa	Black-crowned Night-Heron <i>Nycticorax nycticorax</i>
Gadwall Anas strepera	Yellow-crowned Night-Heron Nyctanassa violacea
American Wigeon Anas americana	White Ibis <i>Eudocimus albus</i>
American Black Duck Anas rubripes	Glossy Ibis Plegadis falcinellus
Mallard Anas platyrhynchos	Black Vulture Coragyps atratus
Blue-winged Teal Anas discors	Turkey Vulture Cathartes aura
Northern Shoveler <i>Anas clypeata</i>	Osprey Pandion haliaetus
Northern Pintail Anas acuta	Swallow-tailed Kite <i>Elanoides forficatus</i>
Green-winged Teal Anas crecca	Mississippi Kite Ictinia mississippiensis
Canvasback Aythya valisineria	Bald Eagle Haliaeetus leucocephalus
Redhead <i>Aythya americana</i>	Northern Harrier Circus cyaneus
Ring-necked Duck Aythya collaris	Sharp-shinned Hawk Accipiter striatus
Greater Scaup Aythya marila	Cooper's Hawk Accipiter cooperii
Lesser Scaup Aythya affinis	Red-shouldered Hawk Buteo lineatus
Surf Scoter Melanitta perspicillata	Broad-winged Hawk Buteo platypterus
White-winged Scoter Melanitta fusca	Red-tailed Hawk Buteo jamaicencis
Black Scoter <i>Melanitta nigra</i>	Rough-legged Hawk Buteo lagopus
Long-tailed Duck Clangula hyemalis	Yellow Rail Coturnicops noveboracensis
Bufflehead Bucephala albeola	Black Rail Laterallus jamaicensis
Common Goldeneye Bucephala clangula	Clapper Rail Rallus crepitans
Hooded Merganser Lophodytes cucullatus	King Rail* Rallus elegans
Common Merganser Mergus merganser	Virginia Rail <i>Rallus limicola</i>
Red-breasted Merganser Mergus serrator	Sora Porzana carolina
Ruddy Duck Oxyura jamaicensis	Purple Gallinule Porphyrio martinicus
Northern Bobwhite Colinus virginianus	Common Gallinule Gallinula chloropus
Wild Turkey Meleagris gallopavo	American Coot Fulica americana
Red-throated Loon Gavia stellata	Sandhill Crane <i>Grus canadensis</i>
Common Loon Gavia immer	American Avocet Recurvirostra americana
Pied-billed Grebe Podilymbus podiceps	Black-bellied Plover Pluvialis squatarola
Horned Grebe <i>Podiceps auritus</i>	American Golden-Plover Pluvialis dominica
Red-necked Grebe Podiceps grisegena	Semipalmated Plover Charadrius semipalmatus
Eared Grebe <i>Podiceps nigricollis</i>	Piping Plover Charadrius melodus
Western Grebe Aechmophorus occidentalis	Killdeer Charadrius vociferus
Wood Stork Mycteria americana	Spotted Sandpiper Actitis macularius
Double-crested Cormorant <i>Phalacrocorax auritus</i>	Solitary Sandpiper <i>Tringa solitaria</i>
Anhinga Anhinga anhinga	Greater Yellowlegs Tringa melanoleuca
American White Pelican <i>Pelecanus erythrorhynchos</i>	Willet Tringa semipalmata
Brown Pelican Pelecanus occidentalis	Lesser Yellowlegs <i>Tringa flavipes</i>
American Bittern Botaurus lentiginosus	Upland Sandpiper Bartramia longicauda
Least Bittern* <i>Ixobrychus exilis</i>	Whimbrel Numenius phaeopus
Great Blue Heron Ardea herodias	Marbled Godwit <i>Limosa fedoa</i>
Great Egret Ardea alba	Ruddy Turnstone <i>Arenaria interpres</i>
Snowy Egret <i>Egretta thula</i>	Red Knot Calidris canutus

¹Taxonomy conforms to the 56th Supplement to the American Ornithologist's Union Check-list of North American Birds, published in 2015.

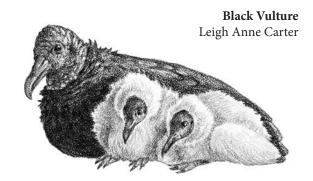
Stilt Sandpiper Calidris himantopus	Ruby-throated Hummingbird Archilochus colubris
Sanderling Calidris alba	Black-chinned Hummingbird Archilocus alexandri
Dunlin Calidris alpina	Anna's Hummingbird <i>Calypte anna</i>
Baird's Sandpiper <i>Calidris bairdii</i>	Calliope Hummingbird Selasphorus calliope
Least Sandpiper <i>Calidris minutilla</i>	Rufous Hummingbird Selasphorus rufus
White-rumped Sandpiper <i>Calidris fuscicollis</i>	Belted Kingfisher Megaceryle alcyon
Buff-breasted Sandpiper Calidris subruficollis	Red-headed Woodpecker Melanerpes erythrocephalus
Pectoral Sandpiper Calidri melanotos	Red-bellied Woodpecker Melanerpes carolinus
Semipalmated Sandpiper <i>Calidris pusilla</i>	Yellow-bellied Sapsucker <i>Sphyrapicus varius</i>
Western Sandpiper <i>Calidri mauri</i>	Downy Woodpecker Picoides pubescens
Short-billed Dowitcher <i>Limnodromus griseus</i>	Hairy Woodpecker Picoides villosus
Wilson's Snipe Gallinago delicata	Northern Flicker Colaptes auratus
American Woodcock Scolopax minor	Pileated Woodpecker Dryocopus pileatus
Wilson's Phalarope <i>Phalaropus tricolor</i>	American Kestrel Falco sparverius
Pomarine Jaeger Stercorarius pomarinus	Merlin Falco columbarius
Parasitic Jaeger Stercorarius parasiticus	Peregrine Falcon Falco peregrinus
Long-tailed Jaeger Stercorarius longicaudus	Carolina Parakeet (extinct) Conuropsis carolinensis
Sabine's Gull Xema sabini	Olive-sided Flycatcher Contopus cooperi
Bonaparte's Gull <i>Chroicocephalus philadelphia</i>	Eastern Wood-Pewee Contopus virens
Black-headed Gull Chroicocephalus ridibundus	Yellow-bellied Flycatcher Empidonax flaviventris
Laughing Gull Leucophaeus atricilla	Acadian Flycatcher Empidonax virescens
Franklin's Gull Leucophaeus pipixcan	Acadian Flycatcher Empidonax alnorum
Ring-billed Gull Larus delawarensis	Willow Flycatcher Empidonax traillii
Herring Gull Larus argentatus	Vinow Tycatcher Emphabhax trainii Least Flycatcher Empidonax minimus
Theyring Gull Larus thayeri	Eastern Phoebe Sayornis phoebe
Inayer's Gull Larus thuyert Iceland Gull Larus glaucoides	Great Crested Flycatcher Myiarchus crinitus
Lesser Black-backed Gull <i>Larus fuscus</i>	Western Kingbird <i>Tyrannus verticalis</i>
Great Black-backed Gull Larus marinus	,
	Eastern Kingbird Tyrannus tyrannus
Brown Noddy Anous stolidus	Loggerhead Shrike Lanius ludovicianus
Sooty Tern Onychoprion fuscatus	White-eyed Vireo Vireo griseus
Bridled Tern Onychoprion anaethetus	Yellow-throated Vireo Vireo flavifrons Blue-headed Vireo* Vireo solitarius
Caspian Tern Hydroprogne caspia	
Black Tern Chlidonias niger	Warbling Vireo Vireo gilvus
Common Tern Sterna hirundo	Philadelphia Vireo Vireo philadelphicus
Forster's Tern Sterna forsteri	Red-eyed Vireo Vireo olivaceus
Royal Tern Thalasseus maximus	Blue Jay Cyanocitta cristata
Black Skimmer Rynchops niger	American Crow Corvus brachyrhynchos
Rock Pigeon Columba livia	Fish Crow Corvus ossifragus
Band-tailed Pigeon Patagioenas fasciata	Common Raven Corvus corax
Eurasian Collared-Dove Stretopelia decaocto	Horned Lark Eremophila alpestris
Passenger Pigeon (extinct) Ectopistes migratorius	Purple Martin Progne subis
Common Ground-Dove Columbina passerina	Tree Swallow Tachycineta bicolor
White-winged Dove Zenaida asiatica	Violet-green Swallow Tachycineta thalassina
Mourning Dove Zenaida macroura	Northern Rough-winged Swallow Stelgidopteryx serripennis
Yellow-billed Cuckoo Coccyzus americanus	Bank Swallow Riparia riparia
Black-billed Cuckoo* Coccyzus erythropthalmus	Cliff Swallow Petrochelidon pyrrhonota
Barn Owl Tyto alba	Barn Swallow Hirundo rustica
Eastern Screech-Owl Megascops asio	Carolina Chickadee Poecile carolinensis
Great Horned Owl Bubo virginianus	Tufted Titmouse Baeolophus bicolor
Snowy Owl Bubo scandiacus	Red-breasted Nuthatch Sitta canadensis
Barred Owl Strix varia	White-breasted Nuthatch Sitta carolinensis
Short-eared Owl Asio flammeus	Brown-headed Nuthatch Sitta pusilla
Northern Saw-whet Owl Aegolius acadicus	Brown Creeper Certhia americana
Common Nighthawk Chordeiles minor	House Wren Troglodytes aedon
Chuck-will's-widow Antrostomus carolinensis	Winter Wren Troglodytes troglodytes
Eastern Whip-poor-will Antrostomus vociferus	Sedge Wren Cistothorus platensis
Chimney Swift Chaetura pelagica	Marsh Wren Cistothorus palustris

Carolina Wren Thryothorus ludovicianus	Prairie Warbler Setophaga discolor
Bewick's Wren (extirpated) Thryomanes bewickii	Black-throated Green Warbler Setophaga virens
Blue-gray Gnatcatcher Polioptila caerulea	Canada Warbler Cardellina canadensis
Golden-crowned Kinglet <i>Regulus satrapa</i>	Wilson's Warbler Cardellina pusilla
Ruby-crowned Kinglet <i>Regulus calendula</i>	Yellow-breasted Chat Icteria virens
Eastern Bluebird Sialia sialis	Eastern Towhee Pipilo erythrophthalmus
Veery Catharus fuscescens	Bachman's Sparrow* Peucaea aestivalis
Gray-cheeked Thrush Catharus minimus	Chipping Sparrow Spizella passerina
Swainson's Thrush Catharus ustulatus	Clay-colored Sparrow Spizella pallida
Hermit Thrush <i>Catharus guttatus</i>	Field Sparrow Spizella pusilla
Wood Thrush Hylocichla mustelina	Vesper Sparrow Pooecetes gramineus
American Robin Turdus migratorius	Lark Sparrow Chondestes grammacus
Gray Catbird Dumetella carolinensis	Savannah Sparrow Passerculus sandwichensis
Brown Thrasher Toxostoma rufum	Grasshopper Sparrow Ammodramus savannarum
Northern Mockingbird Mimus polyglottos	Henslow's Sparrow* Ammodramus henslowii
European Starling Sturnus vulgaris	Le Conte's Sparrow Ammodramus leconteii
American Pipit <i>Anthus rubescens</i>	Nelson's Sparrow Ammodramus nelsoni
Cedar Waxwing Bombycilla cedrorum	Fox Sparrow Passerella iliaca
Lapland Longspur Calcarius lapponicus	Song Sparrow Melospiza melodia
Ovenbird Seiurus aurocapilla	Lincoln's Sparrow Melospiza lincolnii
Worm-eating Warbler Helmitheros vermivorum	Swamp Sparrow Melospiza georgiana
Louisiana Waterthrush Parkesia motacilla	White-throated Sparrow Zonotrichia albicollis
Northern Waterthrush Parkesia noveboracensis	White-crowned Sparrow Zonotrichia leucophrys
Golden-winged Warbler Vermivora chrysoptera	Dark-eyed Junco Junco hyemalis
Blue-winged Warbler Vermivora cyanoptera	Summer Tanager Piranga rubra
Black-and-white Warbler Mniotilta varia	Scarlet Tanager Piranga olivacea
Prothonotary Warbler Protonotaria citrea	Western Tanager Piranga ludoviciana
Swainson's Warbler Limnothlypis swainsonii	Northern Cardinal Cardinalis cardinalis
Swainson's Warbler Limnothlypis swainsonii Tennessee Warbler Oreothlyis peregrina	Northern Cardinal Cardinalis cardinalis Rose-breasted Grosbeak Pheucticus ludovicianus
Swainson's Warbler Limnothlypis swainsonii Tennessee Warbler Oreothlyis peregrina Orange-crowned Warbler Oreothlyis celata	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caerulea
Swainson's Warbler Limnothlypis swainsonii Tennessee Warbler Oreothlyis peregrina Orange-crowned Warbler Oreothlyis celata Nashville Warbler Oreothlyis ruficapilla	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyanea
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina ciris
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americana
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosa	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichas	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichasHooded Warbler Setophaga citrina	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magna
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichasHooded Warbler Setophaga citrinaAmerican Redstart Setophaga ruticilla	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichasHooded Warbler Setophaga citrinaAmerican Redstart Setophaga ruticillaKirtland's Warbler Setophaga kirtlandii	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichasHooded Warbler Setophaga citrinaAmerican Redstart Setophaga ruticilla	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quiscula
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichasHooded Warbler Setophaga citrinaAmerican Redstart Setophaga ruticillaKirtland's Warbler Setophaga kirtlandiiCape May Warbler Setophaga tigrina	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus ater
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spurius
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilisKentucky Warbler Geothlypis formosaCommon Yellowthroat Geothlypis trichas	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockii
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus bullockiiBaltimore Oriole Icterus galbula
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus galbulaHouse Finch Haemorhous mexicanus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celata	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus galbulaHouse Finch Haemorhous mexicanusPurple Finch Haemorhous purpureus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockiiBaltimore Oriole Icterus galbulaHouse Finch Haemorhous mexicanusPurple Finch Haemorhous purpureusRed Crossbill Loxia curvirostra
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockiiBaltimore Oriole Icterus galbulaHouse Finch Haemorhous mexicanusPurple Finch Haemorhous purpureusRed Crossbill Loxia curvirostraCommon Redpoll Acanthis flammea
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockiiBaltimore Oriole Icterus galbulaHouse Finch Haemorhous mexicanusPurple Finch Haemorhous purpureusRed Crossbill Loxia curvirostraCommon Redpoll Acanthis flammeaPine Siskin Spinus pinus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockiiBaltimore Oriole Icterus galbulaHouse Finch Haemorhous mexicanus
Swainson's Warbler Limnothlypis swainsoniiTennessee Warbler Oreothlyis peregrinaOrange-crowned Warbler Oreothlyis celataNashville Warbler Oreothlyis ruficapillaConnecticut Warbler Oporornis agilisMourning Warbler Oporornis agilis	Northern Cardinal Cardinalis cardinalisRose-breasted Grosbeak Pheucticus ludovicianusBlue Grosbeak Passerina caeruleaIndigo Bunting Passerina cyaneaPainted Bunting Passerina cirisDickcissel Spiza americanaBobolink Dolichonyx oryzivorusRed-winged Blackbird Agelaius phoeniceusEastern Meadowlark Sturnella magnaRusty Blackbird Euphagus carolinusBrewer's Blackbird Euphagus cyanocephalusCommon Grackle Quiscalus quisculaBrown-headed Cowbird Molothrus aterOrchard Oriole Icterus spuriusHooded Oriole Icterus cucullatusBullock's Oriole Icterus bullockiiBaltimore Oriole Icterus galbulaHouse Finch Haemorhous mexicanusPurple Finch Haemorhous purpureusRed Crossbill Loxia curvirostraCommon Redpoll Acanthis flammeaPine Siskin Spinus pinus



Breeding Bird Voucher Photos

A total of 116 birds breed in Mecklenburg County. Below are the 84 voucher photos taken inside the county border. Thirty-two species do not have photographic evidence and are listed at the end. Any future voucher photos can be sent to: Natural Resources Coordinator, (704-566-9061), 9001 Plaza Road Extension, Charlotte, NC 28215.









Canada Goose Staff

Wood Duck Staff

Mallard Phil Fowler

Hooded Merganser (young) Will Stuart









Northern Bobwhite (nest)
Staff

Wild Turkey Staff

Pied-billed GrebeJeff Lemons

Great Blue HeronJarrett Wyant









Green HeronPhil Fowler

Yellow-crowned Night-Heron Jeff Lemons

Black Vulture Kevin Metcalf

Turkey Vulture Kevin Metcalf









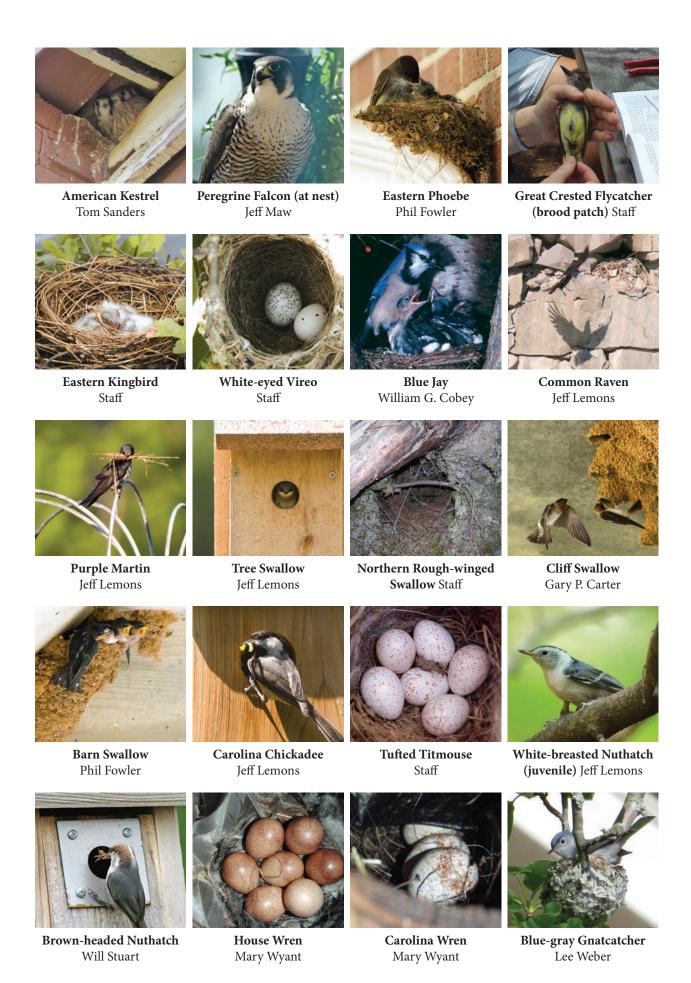
Osprey Bill Archer

Mississippi Kite Phil Fowler

Bald Eagle (at nest) Carole Buie-Jackson

Red-shouldered HawkJohn Scavetto









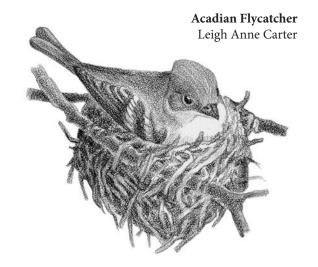
MISSING: Breeding Bird Voucher Photos

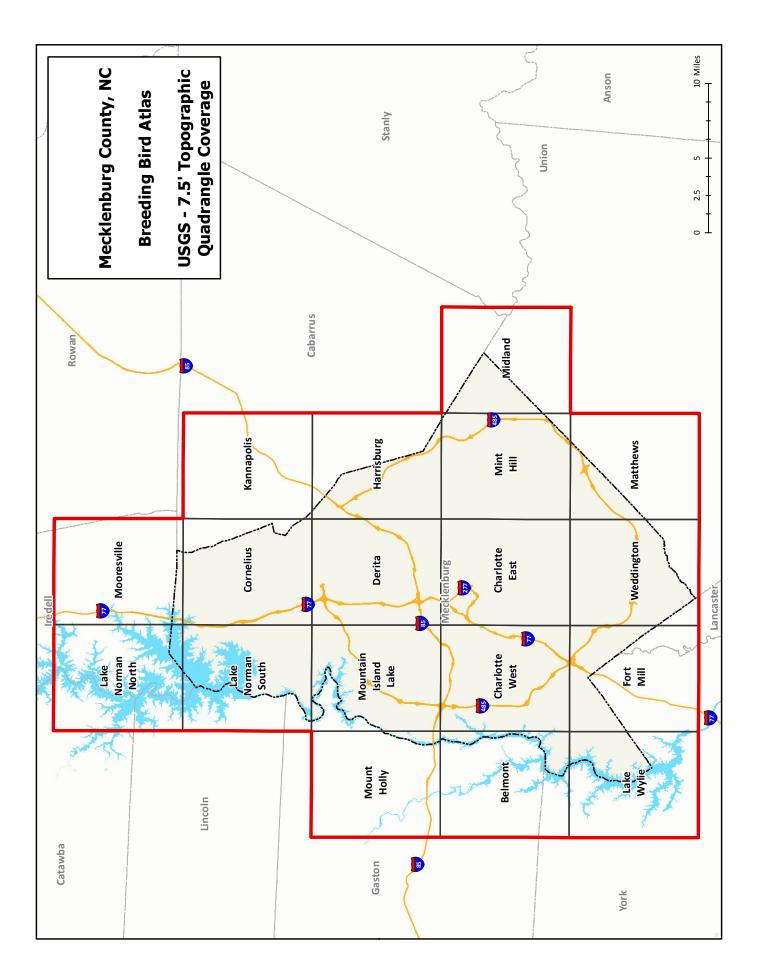
16. Horned Lark

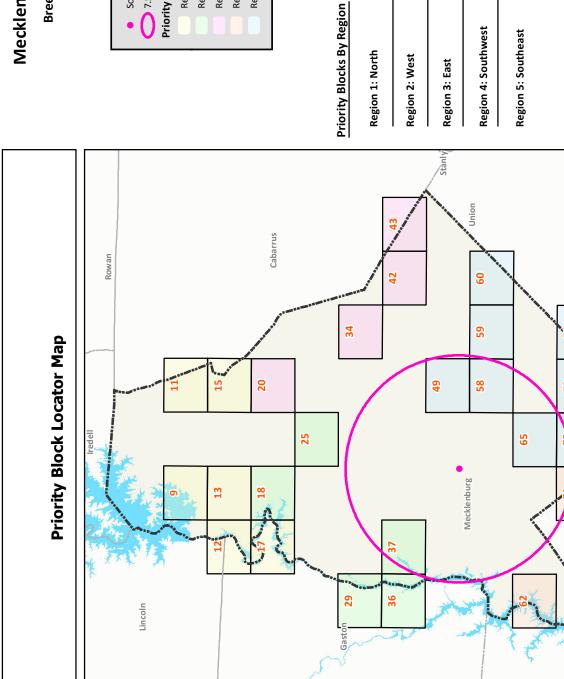
The following species are known breeding birds in Mecklenburg County, but no publishable voucher photo of breeding evidence are on file. Any future voucher photos can be sent to: Natural Resources Coordinator, (704-566-9061), 9001 Plaza Road Extension, Charlotte, NC 28215.

1. Sharp-shinned Hawk 17. Cedar Waxwing 2. Cooper's Hawk 18. Ovenbird 19. Swainson's Warbler 3. Red-tailed Hawk 20. Hooded Warbler 4. Spotted Sandpiper 21. American Redstart 5. Rock Pigeon 6. Common Nighthawk 22. Northern Parula 7. Chimney Swift 23. Yellow Warbler 8. Eastern Wood-Pewee 24. Yellow-throated Warbler 9. Acadian Flycatcher 25. Song Sparrow 10. Willow Flycatcher 26. Summer Tanager 11. Loggerhead Shrike 27. Scarlet Tanager 12. Yellow-throated Vireo 28. Dickcissel 13. Red-eyed Vireo 29. Common Grackle 30. Orchard Oriole 14. American Crow 15. Fish Crow 31. American Goldfinch

32. House Sparrow







Mecklenburg County, NC Breeding Bird Atlas

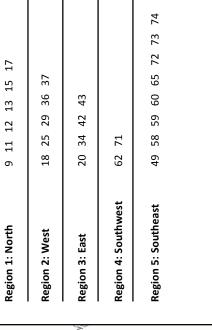
South Bv & Woodlawn Rd

Priority Block Region

Region 1: North Region 2: West Region 3: East

7.5 Mile Radius

Region 4: Southwest Region 5: Southeast



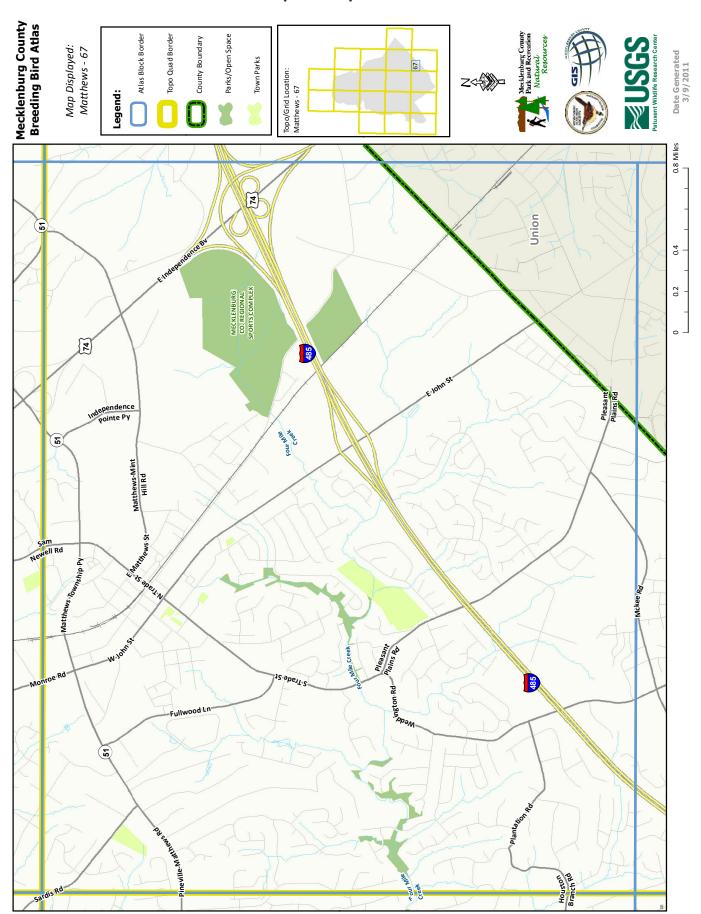
There are 25 priority blocks within the survey area.

10 Miles

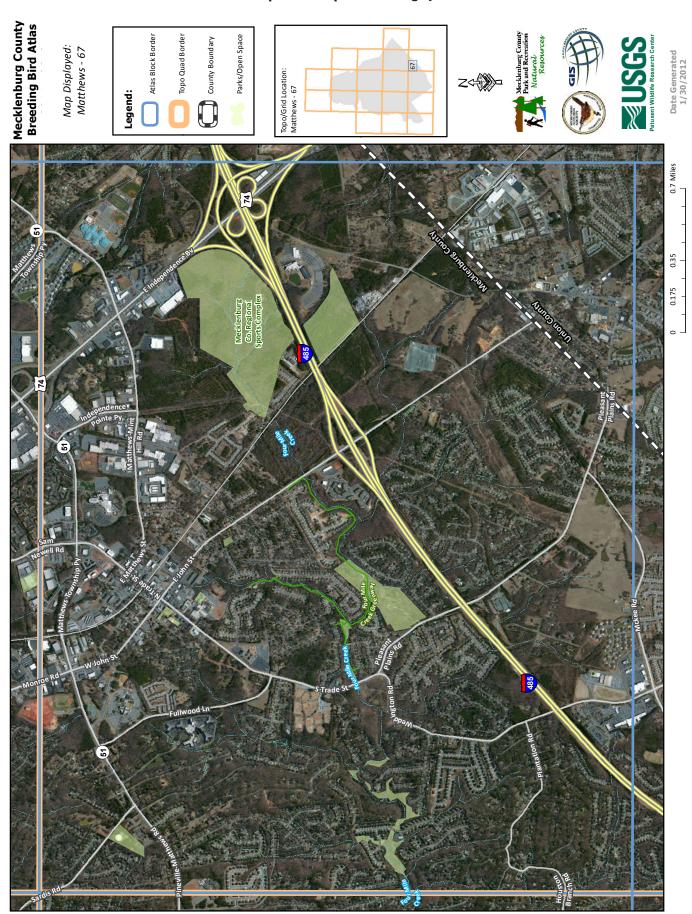
2.5

°]

Example Block Map: Planimetric



Example Block Map: Satellite Imagery



	-				
Species	Ö	afe	Safe Dates	tes Habitat	Status
Canada Goose	3	156		30 Parks, golf courses, lawns, ponds, lakes, rivers	ပ
Wood Duck	4	15 6		30 Wooded swamps, marshes, streams, rivers	7
Mallard	က	15	9	30 All wetlands and adjacent yards, etc.	ပ
Hooded Merganser	2	1	9	30 Wooded swamps, marshes, streams, rivers	
Wild Turkey	က	15	6	30 Mature deciduous woods, edge	
Northern Bobwhite	က	15	6	30 Open fields, pastures, scrub	~
Great Blue Heron	7	15	9	30 Wooded swamps, beaver ponds, river islands	
Green Heron	2	15	9	[30]Woody growth near marshes or open water	_
Yellow-crowned Night-Heron	4	15		30 Pine trees in older neighborhoods with adjacent streams	2
Black Vulture	4	156		[30]Woods, rocky outcrops, abandoned buildings	_
Turkey Vulture	4	156		[30]Woods, rocky outcrops, abandoned buildings	Γ
Osprey	4	15	7	31 Tall trees or towers along river edges	
Mississippi Kite	2	15		30 Tall trees along stream bottomland	5
Bald Eagle	1	156		[30] Tall trees along large lake and river margins	5
Sharp-shinned Hawk	2	15		30 Conifers in mature woodlands	2
Cooper's Hawk	2	156		[30]Mixed woodlands, groves, copses	Ω
Red-shouldered Hawk	3	15	6	[30]Wet mixed pine-hardwood forests, swamps	ပ
Broad-winged Hawk	2	15		30 Mature mixed woodlands	Ω
Red-tailed Hawk	4	156		30 Mature woodlands often near edges	Ω
American Kestrel	2	156		[30] Open country, scattered trees, edge, nest boxes	Ж
King Rail	2	156		[30] Reedy ponds, or marshes	*
Killdeer	က	156		[30]Open, sparsely vegetated areas; flat rooftops	ပ
American Woodcock	_	1	9	30 Forest edges, wet fields	Ω
Rock Pigeon	7	1		31 Buildings, bridges, towers in urban areas, farms	ပ
Eurasian Collared-Dove	7	1	12	31	خ
Mourning Dove	3	15	6	30 Suburbs, woodlots, farmlands	ပ
Yellow-billed Cuckoo	2	156		30 Forested habitats, edge	Я
Black-billed Cuckoo	2	156		30 Forested habitats, edge	*
Barn Owl	_	1	12	31 Farm barns, silos, out buildings near large open habitats	2
Eastern Screech-Owl	12	1		30 Cavities in open deciduous forests, woodlots, residential areas	⊃
Great Horned Owl	12	1	9	30 Wide variety of habitats from forest to farmland	Ω
Barred Owl	12	1	9	[30] Moist woods, wooded swamps, bottomlands	ပ
Common Nighthawk	2	15	6	30 Tops of buildings	Γ
Chuck-will's-widow	2	15	9	30 Open oak woodlands	2
Eastern Whip-poor-will	2	15	9	[30] Secondary forest, copses, scrub pine-oak, edge	2
Chimney Swift	2	15	6	30 Urban chimneys	Ω
Ruby-throated Hummingbird	2	1			ပ
Belted Kingfisher	4	1			⊃
Red-headed Woodpecker	2	156		[30] Open country with scattered trees	<u>~</u>

				-	
Species	Š	ate	Sate Dates	Habitat	Status
Red-bellied Woodpecker	3	1	9 3(Older-growth forests and wood lots	ပ
Downy Woodpecker	3	1	9	Forests, copses, suburbs	ပ
Hairy Woodpecker	လ	1	9 30	Forests	ပ
Northern Flicker	2	15	9	Forest, park lands	n
Pileated Woodpecker	3	1	08 9	Mature forest, especially bottomlands	2
Eastern Wood-Pewee	2	15	9 30	Mature forest	N
Acadian Flycatcher	2	15	08 9	0 Bottomland forested floodplain and stream edges	n
Willow Flycatcher	2	15	9	Willow shrub swamps	Ж
Eastern Phoebe	4	1		Ledges, bridges, porch sills, etc. usually near water	C
Great Crested Flycatcher	2	15	08 9	Mature forest edge, nest boxes	ပ
Eastern Kingbird	2	15	9	Open habitats, including edge, copses, often near water	င
Loggerhead Shrike	2	15	08 9	Farmland and other open habitats	2
White-eyed Vireo	2	15	9	Moist area thickets, tangles of vines, or briers	ပ
Yellow-throated Vireo	2	15	9	Open deciduous and mixed forest and riparian woodlands	n
Blue-headed Vireo	2	15	9		*
Warbling Vireo	2	15	9	Open groves of deciduous trees often adjacent to rivers	5
Red-eyed Vireo	2	15	6	Mixed and deciduous forests	C
Blue Jay	2	15	7	15 Varied; most forest types, thickets, yards, parks	C
American Crow	4	1)ຍ 9	Conifers in forested areas, woodlots, yards, parks	ပ
Fish Crow	4	15	9 30	Mixed woods, woodlots, yards, parks	n
Common Raven	လ	1	9 30	DRock ledges in local rock quarry sites	Γ
Horned Lark	4	15		Abandoned agricultural fields, sparsely vegetated areas, airports	*
Purple Martin	2	156	9 30	Farms, large yards, and golf courses in artificial nest boxes	n
Tree Swallow	2	15	6	Open areas near wetlands, in nest boxes	
Northern Rough-winged Swallow	2	15	6	Often near water, in cavity, pipe, or excavated burrow	n
Cliff Swallow	2	15	9	DEves and sides of bridges	
Barn Swallow	2	15	9 30	Structures - eves of barns, garages, sheds, bridges	N
Carolina Chickadee	လ	1) 9	Woodlands, orchards, shade trees, yards, and city parks	C
Tufted Titmouse	က	1		Deciduous oak forests, riparian woodlands, and residential areas	C
White-breasted Nuthatch	လ	1		Deciduous forest	C
Brown-headed Nuthatch	3	1	9 30	Natural or artificial nest cavities in open pine woods	S
Carolina Wren	က	1	6	Wet woods, stream edges, thickets, brush piles suburban yards	ပ
House Wren	2	15	6	Open forests, wood edges, farms, suburbs, parks	ပ
Blue-gray Gnatcatcher	2	15	6	Wooded edges along ponds, rivers, streams, swamps	C
Eastern Bluebird	4	1		Natural or artificial nest cavities in fields with scattered trees	ပ
Wood Thrush	2	15		Mature forest	N
American Robin	2	15	6	Almost anywhere except the most open habitats	C
Gray Catbird	2	15	6	Dense tangles and thickets	S
Northern Mockingbird	4	1	9	Suburban or semi-rural habitats with thickets, brushy edges	ပ
Brown Thrasher	2	7		DDry second-growth; powerlines, overgrown pastures, thickets	S

				_	
Species	Sa	Safe Dates	ate	Habitat	Status
European Starling		15 (30 Everywhere except remote rural areas	C
Cedar Waxwing	5	15 6		30 Second-growth forests, parks, margins of waterways	خ
Northern Parula	2	12	9	30 Woodlands with <i>Usnea</i> lichen	\supset
Yellow Warbler	2	12	9	30 Marsh margins, wet brushy areas, farmlands	*
Yellow-throated Warbler	5			30 Pine woods, or swamps and bottomlands -esp. in conifers	D
Pine Warbler	5				C
Prairie Warbler	2	12	9	30 Brushy fields, powerline cuts, edges	Ω.
Black-and-white Warbler	2	12	9	30 Primarily deciduous forest	نے
American Redstart	2	15 (9		ن
Prothonotary Warbler	2	15 (Wooded swamps, nest cavities over water	α.
Worm-eating Warbler	2	15		Brushy undergrowth of rocky wooded hillsides and ravines	2
Swainson's Warbler	2	15 (9	30 Dense shrub thickets, vine tangles, privet hedges in forest wetlands	~
Ovenbird	2	15 (9	itter	<u>د</u>
Louisiana Waterthrush	2	12 (9	30 Rocky streams in forest areas	
Kentucky Warbler	2			30 Wet thickets, dense understory in moist or wet deciduous forest bottomlands	R
Common Yellowthroat	5	12 (9	30 Brushy areas, thickets, powerline cuts, preferably wet	S
Hooded Warbler	5	12	9	30 Moist thickets in woodlands	2
Yellow-breasted Chat	5	12	9	30 Thickets in fields, pastures, utility corridors	n
Summer Tanager	5	12	9	30 Variety of forests - most often in open pines	C
Scarlet Tanager	5	12	9	30 Mature deciduous forests	
Eastern Towhee	4	15 (9	30 Dry, open forest, edge, brushy habitats including thickets and utility corridors	C
Bachman's Sparrow	5			30 Open, park-like pine stands with grassy ground cover maintained by fire	بد
Chipping Sparrow	4	12	9	30 Open mixed forest, suburbs, parks, cemeteries	C
Field Sparrow	4				Z.
Grasshopper Sparrow	4	12 (9	30 Grasslands, hayfields, possibly airport areas	22
Henslow's Sparrow	2	12	9	30 Weedy fields, wet meadows	*
Song Sparrow	4	15 (9	30 Forest edge, brushy areas, marsh edges, suburbs	S
Northern Cardinal	4	1		Suburban or semi-rural areas; forest edge, woodlots, thickets, parks, gardens	C
Blue Grosbeak	5			Brushy habitats, woodland edge, fields, pastures, overgrown fields, utility corridors	Ω
Indigo Bunting	5	15 (9	30 Brushy habitats including forest edge, overgrown fields, utility corridors	ပ
Red-winged Blackbird	5	1		Wide variety of densely vegetated wet habitats	Ω
Eastern Meadowlark	5	1 (Extensive grasslands, hayfields, possibly airport areas	Z.
Common Grackle	4	15 (30 Wide variety of urban and rural habitats	ပ
Brown-headed Cowbird	4	15 (Virtually all habitats	C
Orchard Oriole	5	156		Open patchy forest, copses, often near river, stream, or pond	n
House Finch	4	15 (Scattered trees, especially conifers - usually in residential areas	ပ
American Goldfinch	9	-		Forest edge, copses, brushy areas, residential areas	ပ
House Sparrow	_	_	12	31 Residential areas, farms	S

Dates and Hours of Atlas Trips: Please record all trips.

Date	Hours	Date	Hours	Date	Hours

Breeding Codes

OBServed: Use during Safe Dates for species known to breed in Mecklenburg County, but only seen "passing through" your block. Record date in column. Examples; vultures or raptors seen in transit through block, late migrants out of habitat, or colonial nesting birds not at a nesting colony.

POSSible: Use during Safe Dates for male or female seen or heard in suitable nesting habitat but no further evidence of breeding was uncovered. Record date in column

PROBable: Only use during Safe Dates, except for the "C" code. Record date & code.

- A pair (male and female, together, not fighting) seen in suitable nesting habitat.
- Permanent territory presumed through song (or drumming), heard at same location on Permanent territory presumed through defense. Most birds will not tolerate another Birds are quite aggressive when breeding, and some territory squabbles are intense. at least two occasions, 7 days (or more) apart, both singing dates during safe dates. bird of the same species, other than their mate or young, near them while nesting.
 - Agitated behavior or anxiety calls from adult.
 - but not out of Safe Dates for ducks). Consult birding reference for breeding displays. Visiting probable nest site, no nest seen (e.g. the tops of trees, nest boxes, chimneys). Courtship and/or reproductive behavior seen or heard. (OK to use out of Safe Dates, **4** 0

Z

Building a nest by a wren, or excavation of holes by single woodpeckers.

CONFirmed: (can be used outside of Safe Dates) Record date & code.

- Occupied nest: adult seen sitting on nest and likely incubating eggs or brooding. NO N
 - Carrying nesting material, such as hair, sticks, grass, bark, etc.
 - Nest building at the actual nest-site. S
- Physiologic evidence of breeding (e.g. brood patch or egg in oviduct.) Distraction display or injury feigning. DD PE
 - Precocial young (downy, capable of walking think duck hatchling) Used nest or eggshells found. <u>Z</u>

Recently fledged young (either precocial or altricial) incapable of sustained flight.

- Carrying food: adult carrying food for the young. Adult feeding recently fledged young. FL
 - Adult carrying fecal sac.
 - Nest with egg(s).
 - Nest with young seen or heard. NE ES

Mecklenburg County Breeding Bird Atlas - Field Checklist

(office use only) Block #	SNTAL (circle one) Special Area:	X	rear		page, 1 nank 1 ou:		SGS? please send this card to:
D0c. 1D#:	ASSIGNED BLOCK or INCIDENTAL (circle one)	Atlaser Name(s)	Phone	Email	Do you live in the block?	Have you reported all bold species?	Have you entered all data into USGS?

Enter data on-line via USGS data entry link.

Report species with * /? / R to Regional Coordinator. R = Rare breeder—species of local conservation concern ? = Breeding status uncertain—get photo/exact location * = Formerly nested—get photo/exact location

U = Uncommon (see list in handbook) L = LOCAL breeder

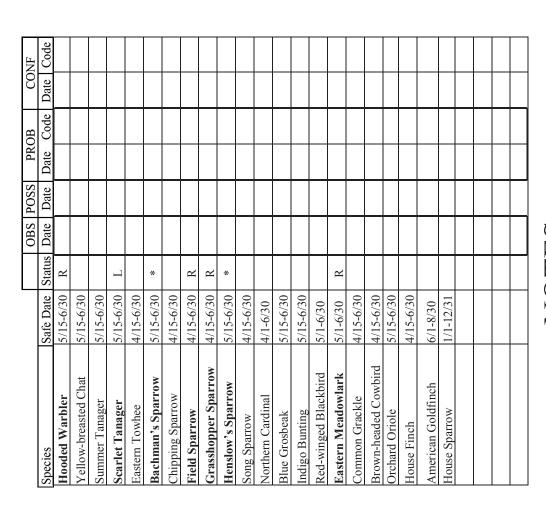
C = Common (see list in handbook)

Mecklenburg County Park and Recreation Charlotte, N.C. 28215 9001 Plaza Road Ext. Breeding Bird Atlas

			OBS	POSS	PR	PROB	00	CONF
Species	Safe Date	Status Date	Date	Date	Date	Date Code	Date Code	Code
Canada Goose	3/15-6/30							
Wood Duck	4/15-6/30	L						
Mallard	3/15-6/30							
Hooded Merganser	5/1-6/30	Γ						
Wild Turkey	3/15-9/30	Γ						
Northern Bobwhite	3/15-9/30	R						
Great Blue Heron	1/15-6/30	Г						
Green Heron	5/15-6/30	Г						
Yellow-crowned NHeron	4/15-6/30	R						
Black Vulture	4/15-6/30	Γ						
Turkey Vulture	4/15-6/30	Γ						
Osprey	4/15-7/31	Γ						
Mississippi Kite	5/15-6/30	Ċ						
Bald Eagle	1/15-6/30	?						
Sharp-shinned Hawk	5/15-6/30	R						
Cooper's Hawk	5/15-6/30	Г						
Red-shouldered Hawk	3/15-6/30	L						
Broad-winged Hawk	5/15-6/30							
Red-tailed Hawk	4/15-6/30							
American Kestrel	5/15-6/30	R						
King Rail	5/15-6/30	*						

CONF	Code																																					
8	Date																																					
OB	Date Code																																					
PROB	Date																																					
POSS	Date																																					
OBS	Date																																					
	Status	Γ	*		T		Г																ċ		*			R	*	*	R	R	R	R	Г	R		
	Safe Date	3/1-6/30	4/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	3/1-6/30	3/1-6/30	3/1-6/30	3/1-6/30	3/1-6/30	5/15-6/30	5/15-6/30	4/1-6/30	5/15-6/30	5/15-6/30	5/15-6/30	4/1-6/30	5/1-6/30	4/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	5/15-6/30	
	Species	Raven	Horned Lark	Purple Martin	Tree Swallow	nged Swallow	Cliff Swallow		Carolina Chickadee	Tufted Titmouse	uthatch	Brown-headed Nuthatch	Carolina Wren	House Wren	Blue-Gray Gnatcatcher	Eastern Bluebird	Wood Thrush	American Robin		ckingbird		European Starling			Yellow Warbler	Yellow-throated Warbler	Pine Warbler	Prairie Warbler	Black-and-white Warbler	American Redstart	Prothonotary Warbler	Worm-eating Warbler	Swainson's Warbler		Waterthrush	Kentucky Warbler	Common Yellowthroat	
																					-:	(ple	йрI	oʻu	Tarī	nre,	າງຮອງ	191	вw	'ədA	(1 1s:	Pioi)]	છ	ļį	qı	3F	- I -
											_	(.oi	e' e <u>ı</u>	zis	11.66	'pı	roui	වේ ග	o 'ə	ort u	ıi ,t	ouno	ng e	ολοφ	ht al	કિંાઇ	ر (۱	ļU	(a)	u	19))	r 	d	[]	.SG) N	Ī
																																						_
									-:	es)	iss.	bsi.	ʻsui	ews	ı po	oj ,	;8u	noƙ	Jo 3	# '¿s	5883) Jo	# '¿!	rials	əjei	u)	U	Oİ	[](di	J)S	(2)	D	[]	S	N	Ī
																								_ :	ə 2	je	p	/	U	O į	[]1	30	0	7	[]	.S	ÞΝ	I
										S	ə 1	\mathbb{C}	ə	de	ζ-	:(T	K).) [1)	1	T	S	ਜ ਜ	N	Ţ	<u>C</u>	$\overline{\forall}$	7	T	$\overline{\mathbf{V}}$	7 (T	K	18	Ī

NOTES



NOTES



Mecklenburg County
Park and Recreation

ATLAS SPONSORS



Species Breeding in Four or Fewer Atlas Regions: only CO and PR codes

Block Code	Block Name	Best Evidence	Region
67	Matthews - 1	CO	5: Southeast
27	Harrisburg - 3	СО	3: East
40	Charlotte East - 2	CO	3: East
48	Charlotte East - 3	CO	4: Southwest
7	Cornelius - 2	PR	1: North
11	Cornelius - 4	PR	1: North
12	Lake Norman South - 5	PR	1: North
17	Mountain Island Lake -1	PR	1: North
18	Mountain Island Lake -2	CO	2: West
39	Charlotee East - 1	PR	2: West
59	Mint Hill - 5	PR	5: Southeast
9	Lake Norman South - 4	PR	1: North
11	Cornelius - 4	CO	1: North
41	Mint Hill - 1	PR	3: East
18	Mountain Island Lake - 2	CO	2: West
34	Harrisburg - 5	PR	3: East
51	Mint Hill - 4	PR	3: East
52	Midland - 3	CO	3: East
60	Mint Hill - 6	CO	5: Southeast
19	Derita - 1	CO	2: East
18	Mountain Island Lake - 2	СО	2: West
47	Charlotte West - 4	СО	4: Southwest
27	Harrisburg - 3	PR	3: East
29	Mount Holly - 6	CO	2: West
40	Charlotte East - 2	CO	3: East
64	Fort Mill -2	PR	4: Southwest
62	Lake Wylie - 2	CO	4: Southwest
10	Cornelius - 3	PR	1: North
12	Lake Norman South - 5	CO	1: North
64	Fort Mill - 2	CO	4: Southwest
12	Lake Norman South - 5	CO	1: North
17	Mountain Island Lake - 1	PR	1: North
18	Mountain Island Lake - 2	PR	2: West
62	Lake Wylie - 2	СО	4: Southwest
2	Mooresville - 5	СО	1: North
6	Cornelius - 1	CO	1: North
11	Cornelius - 3	CO	1: North
12	Laka Marman Couth E	CO	1: North
	67 27 40 48 7 11 12 17 18 39 59 9 11 41 18 34 51 52 60 19 18 47 27 29 40 64 62 10 12 64 12 17 18 62 2 6 11	27	67 Matthews - 1 CO 27 Harrisburg - 3 CO 40 Charlotte East - 2 CO 48 Charlotte East - 2 CO 48 Charlotte East - 2 CO 7 Cornelius - 2 PR 11 Cornelius - 4 PR 12 Lake Norman South - 5 PR 18 Mountain Island Lake - 2 CO 39 Charlotee East - 1 PR 59 Mint Hill - 5 PR 9 Lake Norman South - 4 PR 11 Cornelius - 4 CO 41 Mint Hill - 1 PR 18 Mountain Island Lake - 2 CO 34 Harrisburg - 5 PR 51 Mint Hill - 4 PR 52 Midland - 3 CO 60 Mint Hill - 6 CO 19 Derita - 1 CO 47 Charlotte West - 4 CO 47 Charlotte East - 2 CO

Species	Block Code	Block Name	Best Evidence	Region
Mississippi Kite	66 73	Weddington - 2 Weddington - 4	CO PR	5: Southeast 5: Southeast
Common Raven	2	Mooresville - 5	PR	1: North
Common Raven	25	Derita - 3	PR	2: West
	59	Mint Hill - 5	PR	5: Southeast
	64	Fort Mill - 2	CO	4: Southwest
Tree Swallow	7	Cornelius - 2	СО	1: North
	8	Lake Norman South - 3	CO	1: North
	11	Cornelius - 4	CO	1: North
Peregrine Falcon	39	Charlotte East - 1	СО	2: West
Baltimore Oriole	15	Cornelius - 6	CO	1: North
Dickcissel	64	Fort Mill - 2	CO	4: Southwest
Pied-billed Grebe	29	Mount Holly - 6	СО	2: West
Spotted Sandpiper	19	Derita - 1	СО	2: West
Willow Flycatcher	15	Cornelius - 6	PR	1: North
Swainson's Warbler	59	Mint Hill - 5	PO	5: Southeast
	76	Weddington - 5	CO	5: Southeast
Cedar Waxwing	9	Lake Norman South - 4	PR	1: North
ū	47	Charlotte West - 4	PR	4: Southwest
Cliff Swallow	9	Lake Norman South - 4	СО	1: North
	29	Mount Holly - 6	CO	2: West
	36	Belmont - 2	CO	2: West
	37	Charlotte West - 1	CO	2: West
	54	Belmont - 6	CO	4: Southwest
	62	Lake Wylie - 2	СО	4: Southwest
Red-headed Woodpecker	18	Mountain Island Lake - 2	CO	2: West
	34	Harrisburg - 5	CO	3: East
	40	Charlotte East - 2	CO	3: East
	64	Fort Mill - 2	CO	4: Southwest
	69 72	Lake Wylie - 4 Weddington - 3	PR CO	4: Southwest 5: Southeast
Broad-winged Hawk	18	Mountain Island Lake - 2	PR	2: West
Dioua wingou Hawk	24	Mountain Island Lake - 4	PR	2: West
	34	Harrisburg - 5	CO	3: East
	49	Charlotte East - 4	CO	5: Southeast
	58	Charlotte East - 6	CO	5: Southeast
Purple Martin	6	Cornelius - 1	PR	1: North
	9	Lake Norman South - 4	CO	1: North
	10	Cornelius - 3	CO	1: North
	12	Lake Norman South - 5	PR	1: North
	15	Cornelius - 6	CO	1: North
	21	Harrisburg - 1	CO	3: East
	60	Mint Hill - 6	CO	5: Southeast
	67	Matthews - 1	CO	5: Southeast

Species	Block Code	Block Name	Best Evidence	Region
Prothonotary Warbler	12	Lake Norman South - 5	PR [CO]	1: North
	18	Mountain Island Lake - 2	PR	2: West
	29	Mount Holly - 6	PR	2: West
	36	Belmont - 2	PR	2: West
	59	Mint Hill - 5	CO	5: Southeast
	62	Lake Wylie - 2	CO	4: Southwest
	72	Weddington - 3	CO	5: Southeast
Northern Flicker	32	Derita - 5	PR	2: West
	40	Charlotte East - 2	CO	3: East
	59	Mint Hill - 5	CO	5: Southeast
	66	Weddington - 2	CO	5: Southeast
	72	Weddington - 3	CO	5: Southeast
	74	Matthews - 3	PR	5: Southeast
Pileated Woodpecker	14	Cornelius - 5	CO	1: North
•	18	Mountain Island Lake - 2	PR	2: West
	34	Harrisburg - 5	PR	3: East
	58	Charlotte East - 6	CO	5: Southeast
	65	Weddington - 1	PR	5: Southeast
	66	Weddington - 2	CO	5: Southeast
	72	Weddington - 3	CO	5: Southeast
	74	Matthews - 3	PR	5: Southeast
Wild Turkey	7	Cornelius - 2	CO	1: North
wha rancy	12	Lake Norman South - 5	CO	1: North
	13	Lake Norman South - 6	PR	1: North
	14	Cornelius - 5	PR	1: North
	15	Cornelius - 6	PR	1: North
	17	Mountain Island Lake - 1	PR	1: North
	29	Mount Holly - 6	PR	2: West
	34	Harrisburg - 5	CO	3: East
	62	Lake Wylie	CO	4: Southwest
	64	Fort Mill - 2	СО	4: Southwest
Great Blue Heron	5	Lake Norman South - 2	CO	1: North
	36	Belmont - 2	CO	2: West
	57	Charlotte East - 5	CO	4: Southwest
	58	Charlotte East - 6	CO	5: Southeast
	62	Lake Wylie - 2	CO	4: Southwest
	66	Weddington - 2	CO	5: Southeast
	72	Weddington - 3	CO	5: Southeast
Turkey Vulture	9	Lake Norman South - 4	CO	1: North
	12	Lake Norman South - 5	PR	1: North
	18	Mountain Island Lake - 2	CO	2: West
	26	Derita - 4	PR	3: East
	72	Weddington - 3	PR	5: Southeast
Black Vulture	12	Lake Norman South - 5	CO	1: North
	19	Derita - 1	CO	1: North
	34	Harrisburg - 5	CO	3: East
	62	Lake Wylie - 2	CO	4: Southwest
	72	Weddington - 3	PR	5: Southeast
Eurasian Collared-Dove	64	Fort Mill - 2	СО	4: Southwest

Species	Block Code	Block Name	Best Evidence	Region
Osprey	2	Mooresville - 5	CO	1: North
	5	Lake Norman South - 2	CO	1: North
	6	Cornelius - 1	CO	1: North
	8	Lake Norman South - 3	CO	1: North
	9	Lake Norman South - 4	CO	1: North
	10	Cornelius - 3	CO	1: North
	12	Lake Norman South - 5	CO	1: North
	17	Mountain Island Lake - 1	CO	1: North
	18	Mountain Island Lake - 2	CO	2: West
	19	Derita - 1	CO	2: West
	24	Mountain Island Lake - 4	CO	2: West
	29	Mount Holly - 6	CO	2: West
	36	Belmont - 2	CO	2: West
	37	Charlotte West - 1	CO	2: West
	46	Charlotte West - 3	CO	4: Southwest
	54	Belmont - 6	CO	4: Southwest
	73	Weddington - 4	CO	5: Southeast
Chimney Swift	2	Mooresville - 5	PR	1: North
	6	Cornelius - 1	PR	1: North
	7	Cornelius - 2	PR	1: North
	9	Lake Norman South - 4	PR	1: North
	10	Cornelius - 3	PR	1: North
	14	Cornelius - 5	PR	1: North
	15	Cornelius - 6	PR	1: North
	21	Harrisburg - 1	PR	3: East
	26	Derita - 4	PR	3: East
	27	Harrisburg - 3	CO	3: East
	33	Derita - 6	PR	3: East
	40	Charlotte East - 2	PR	3: East
	41	Mint Hill - 1	PR	3: East
	50	Mint Hill - 3	PR	5: Southeast
	57	Charlotte East - 5	CO	4: Southwest
	58	Charlotte East - 6	PR	5: Southeast
	63	Fort Mill - 1	PR	4: Southwest
	66	Weddington - 2	PR	5: Southeast
	72	Weddington - 3	PR	5: Southeast
	74	Matthews - 3	PR	5: Southeast

Lost Birds

Of Mecklenburg County, NC



Extinct

The Passenger Pigeon was last seen in Charlotte in October 1875, and the Carolina Parakeet was last reported in North Carolina in 1782.

Populations of these unique birds are believed to have once numbered in the millions.



Passenger Pigeon

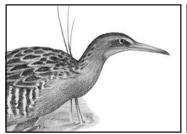


Carolina Parakeet

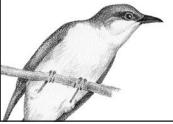
Lost

Seven of these species

It was a rare migrant The last county sighting was June 6, 1990. This anywhere in North Carolina.



King Rail June 1945 nest



Black-billed Cuckoo June 1943 nest



Blue-headed Vireo June 1939 nest



Bewick's Wren June 6, 1990 sighting May 1990 family group



Least Bittern



Bachman's Sparrow May 1947 nest



Henslow's Sparrow June 1943 nest



Lost?

These species recently current evidence of their breeding was found during the 2011-2015 Mecklenburg County **Breeding Bird Atlas** Survey.



Chuck-will's-widow



Loggerhead Shrike



Yellow-throated Warbler

Imperiled Breeding Birds Of Mecklenburg County, NC





Imperiled

Breeding Bird Atlas survey results indicate a breeding code of either confirmed or probable in five or fewer survey blocks in Mecklenburg County, and the local breeding population is not known to be increasing. Only species with established populations are included. These birds are especially vulnerable to extirpation.

* - Indicates the species has historically nested here in relatively low numbers



ALL PHOTOS ARE TAKEN IN MECKLENBURG COUNTY. PHOTO CREDITS 1st row: all Jeff Lemons. 2nd row: Phil Fowler, Phil Fowler, Jim Guyton, Will Stuart. 3rd row: Will Stuart, Will Stuart, Chris Talkington, Phil Fowler. 4th row: Jeff Lemons, Jim Guyton, Jim Guyton, John Scavetto.

Vulnerable Breeding Birds

of Mecklenburg County, NC

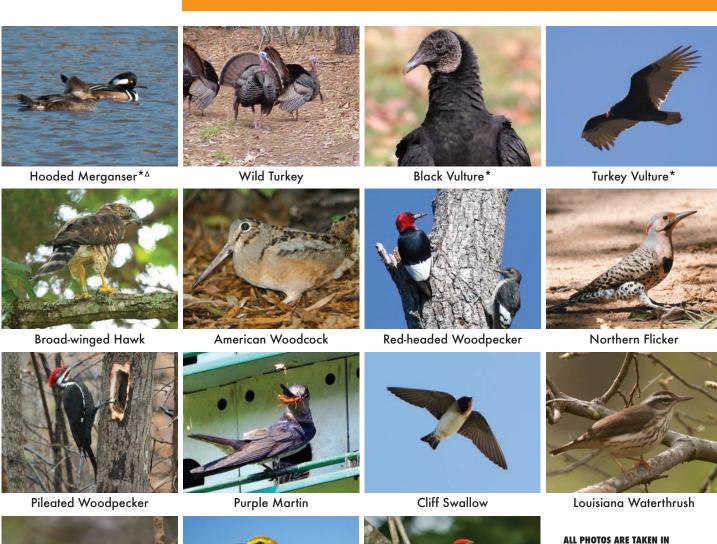




Vulnerable

Breeding Bird Atlas survey results indicate a breeding code of either confirmed or probable in **six to ten** survey blocks in Mecklenburg County, and the local breeding population is not known to be increasing. These birds are rare or uncommon breeders, restricted to a few locations, or because of some other factor, are vulnerable to extirpation.

- * Indicates that a species is difficult to survey
- △ Included here based on Ducks Unlimited nest box data



Prothonotary Warbler

Prairie Warbler

Scarlet Tanager

MECKLENBURG COUNTY. PHOTO
CREDITS 1st row: Jeff Lemons,
Donald Seriff, Will Stuart, Jeff
Lemons. 2nd row: Phil Fowler,
Jarrett Wyant, John Scavetto, Jeff
Lemons. 3rd row: Debbie Foster,
Phil Fowler, Jeff Lemons, Jeff
Lemons. 4th row: Jeff Lemons,
John Scavetto, Jarrett Wyant.

New Breeding Birds Of Mecklenburg County, NC



Newly Discovered

Eleven of the twelve species listed below were not confirmed breeding in Mecklenburg County prior to the turn of the twenty-first century. As indicated by footnote, several of these species have already established, or may possibly establish, regular breeding populations in the county. There are two confirmed nest records for Baltimore Oriole here. They were recorded 87 years apart. The first was found in May 1926, and the second was discovered in May 2013.

- * Observations indicate these species may (or have) become local established breeders
- △ Sporadic breeder not expected to establish a local breeding population



Pied-billed Grebe[△] April 2015



Mississippi Kite* June 2014



Bald Eagle* February 2009



Spotted Sandpiper[△] July 2010



Eurasian Collared-Dove* April 2011



Peregrine Falcon* April 2013



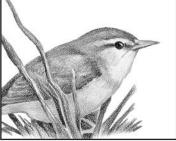
Willow Flycatcher[△] June 2004



Common Raven* March 2010



Tree Swallow* June 2003



Swainson's Warbler[△] May 2006



Dickcissel^a May 2011



Baltimore Oriole[△] May 2013

Credits

Our sincerest thanks go out to the following people who provided information, support, photographs, etc. for the Mecklenburg County Breeding Bird Atlas:

Roy Alexander, George Andrews, Bill Archer, Kimberly Balcos, Alexandra Ball, Larry Barden, Louise Barden, Burt Bell, Dan Belongia, Rob Bierregaard, Scott Black, Bill Blakesley, Laura Blakesley, Mike Blanton, John Bonestell, Marshall Brooks, Carol Buie-Jackson, Sheila Bumgarner, Bob Butt, Pat Butt, Susan Campbell, David Carroll, Becky Carter, Gary Carter, Leigh Anne Carter, Valerie Castano, Jeff Catlin, Adriana Cerbin, Jose Chavez, Ron Clark, Staci Clark, Flo Cobey, William Cobey, John DeKemper, Stephen J. Dinsmore, Laura Domingo, Bernadette Durkin, Melissa Elder, Susan Ellerman, Chuck Elyea, Mathias Engleman, Nancy Favor, Steve Fields, Linn Finger, Debbie Foster, Jan Fowler, Phil Fowler, Sharon Freedman, Susan Freedman, Karyl Gabriel, Lisa Gaffney, Sara Gagne, Carl Ganser, Sue Gardner, Kim Garrett, John Gerwin, Martha Geyer, Greg Greer, Rob Gilson, Dexter Greene, Lenore Greenwald, Jim Griffith, Cynthia Griffith, Marja Grillo, Mary Grizzard, Jim Guyton, John Haire, John Hanna, Chris Hanna, Kirk Hargis, Ann Harlan, Matthew Harrell, Bob Haussler, Greg Hays, Christy Hill, Heather Hovde, Carol Hull, Sherrie Ingram, Matt Janson, Andy Kane, Chris Kelly, Kerry Kenner, Dennis Kent, Don Klinger, Alan Kneidel, Ken Kneidel, Brad Kuntz, Lenny Lampel, Amy Landers, Howard Landers, Sherry Lane, Dennis Lankford, Tom Ledford, Carla Ledford, Barbara Lembo, Jeff Lemons, Spring Ligi, Vivian Lord, Carol Lostbom, Carol Lovett, Dave Lovett, Bob Lyberopoulos, Christy Lynch, Chris Martin, Ann Marsh, Gary Marshal, Dwayne Martin, Jeff Maw, Tori McCasland, Karyl McClusky, Rob McHenry, Ben McIlwaine, Ernie McLaney, Jack Meckler, Kevin Metcalf, Jamie Metz, Todd Mustard, Martina Nordstrand, Chris North, Georgia Oakes, Ann Olsen, John Orchard, Jill Palmer, Deb Park, Charles Payne, Nancy Pelligrini, Travis Phifer, Lorraine Piephoff, Taylor Piephoff, Amber Plantz, Ellen Plyler, Elaine Powell, Eli Pressley, Lucy Quintilliano, Nancy Rash, Fred Reddel, Heather Reed, Ronny Roberts, Christa Rogers, Kristin Rothrock, Barry Rowan, Linda Safir, Amy Sanders, Tammy Sanders, Tom Sanders, Terry Scaia, Marcia Scaia, John Scavetto, James Schaffernoth, Lauren Schexnider, Sandy Schoonover, Frank Schultz, Geoffrey Schott, Dave Scott, Don Seriff, Liam Seriff, Suzannah Seriff, Anthony Shaheen, Paulette Shaw, Josh Sims, Jessica Smedley, George Smith, Nancy Smith, Penny Soares, Debara Splendorio, Dean Sprehe, Vivian Sprehe, Mark Stanback, Will Stuart, Allison Sussman, Vicki Sutton, Danny Swicegood, Cheryl Talkington, Chris Talkington, Simon Tan, Peter Taylor, Mike Teague, Steve Thomas, Abbey Thornton, Robin Tingley, Carol Tomko, Steve Tracy, Mike Trescott, Ron Underwood, Rob Van Epps, Amber Ververka, Stase Vonsiatsky, Judy Walker, Joan Walsh, Lee Weber, Evelyn Weddle, Kathy Weiss, Daniel West, Pam Whistler, Melody Wilkes, Mark Wimer, David Wright, Marcia Wright, Jarrett Wyant, Mary Wyant, Jay Wylie, Ron Zick.

Image Credits

Bill Archer 30

Gary P. Carter 18, 41, 57, 81, 85, 86, 88, 92, 131, 133

Leigh Anne Carter 23, 26, 45, 49, 50, 64, 65, 75, 77, 101, 103,

Ron Clark 70

William G. Cobey 95

Debbie Foster 60

Phil Fowler 20, 31, 35, 36, 47, 51, 66, 78, 82, 104, 119, 130

Jim Guyton 54, 61, 94, 97, 107, 108, 109, 111, 121, 123, 127, 128, 132

Jeff Lemons 21, 22, 24, 27, 32, 34, 37, 38, 42, 46, 52, 58, 59, 63, 67, 68, 69, 74, 80, 99, 100, 102, 106, 113, 118, 124, 125, 126

Jeff Maw 62, 122

Kevin Metcalf 28, 105, 115

John Scavetto 29, 76, 112, 117

Mecklenburg County Park and Recreation Department Staff 33

Will Stuart 19, 25, 43, 44, 53, 55, 56, 71, 72, 73, 83, 84, 87, 90, 91, 93, 96, 98, 110, 114, 116, 120

Chris Talkington 39, 129

Lee Weber 79, 89

Jarrett Wyant 40, 48



Voucher Specimen Record: A specimen of this species was collected in the region and deposited in a curated collection.



Specimen Examined: A specimen of this species was examined in the region in hand by a competent authority and released, discarded, or lost.



Banded Bird Record: A specimen of this species was captured, banded, and released in the region.



Photographic Record: A photograph of this species was taken in Mecklenburg County.



Outlined Photographic Record: A photograph of this species has been taken in the region, but not in Mecklenburg County.



Sight Record: A dated sight record exists for this species in the Central Carolina region.



Red Sight Record: The only evidence of this species in the Central Carolina region is a sight record.



Christmas Bird Count Record: Species has been recorded on a Christmas Bird Count in the region.



Spring Bird Count Record: Species has been recorded on a Spring Bird Count in the region.



Nest Record: This species has been recorded nesting in the region.



Orange Nest Record: Mecklenburg County Breeding Bird Atlas designated Vulnerable. See page 554.



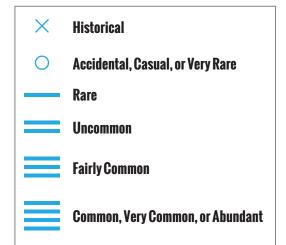
Red Nest Record: Mecklenburg County Breeding Bird Atlas designated Imperiled. See page 553.



Outlined Nest Record: This species has been recorded nesting in the region, but not in Mecklenburg County.



Blue Nest Record: Former Breeder. Mecklenburg County BBA designated Lost. See page 552.



- ND No Data
- OB Observed
- PO-Possible
- PR-Probable
 - CO Confirmed



Natural Resources Coordinator 9001 Plaza Road Extension Charlotte, NC 28215 704-566-9061