Bird Surveys Within the Yadkin Project Area

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AVIAN INVENTORY REPORT
Yadkin Project (FERC No. 2197)

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The Center for Conservation Biology is an organization dedicated to discovering innovative solutions to environmental problems that are both scientifically sound and practical within today’s social context. Our philosophy has been to use a general systems approach to locate critical information needs and to plot a deliberate course of action to reach what we believe are essential information endpoints.
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SUMMARY

The Avian Inventory Report presents the results of a survey of migratory and breeding birds found within the Yadkin Project area. This study was conducted by the Center for Conservation Biology at the College of William and Mary as part of the FERC relicensing process for the Yadkin Project. The study was conducted in accordance with the Final Study Plan that was developed by Yadkin in consultation with the Wetlands, Wildlife and Botanical Issue Advisory Group (IAG). The primary objective identified in the Final Study Plan was to evaluate the current status of migratory and breeding bird use of the Yadkin Project.

The focus of this study was to survey priority habitats within the Project area for birds. Priority was given to documenting species of management interest or species already listed by state or federal authorities. Emphasis was also placed on documenting all bird species that breed in the area. The habitats surveyed were prioritized according to the Partners in Flight (PIF) Plan for the Southern Piedmont Region. The critical habitats found in the Yadkin Project that were the focus of surveys include:

1) Wetlands and riparian floodplain habitat;

2) Forest interior, including both pine and hardwood dominated stands; and

3) Shrub-scrub habitat associated with early successional timbered areas.

Birds were surveyed using a variety of methods including point counts, line transects, aerial surveys, and area searches. Priority habitats within the Yadkin Project area support a diverse array of species. Detections of over 7,000 birds consisting of 124 species were recorded in the Yadkin Project area using the aforementioned survey methods. Included in that total are nine species that PIF has designated as “watch” species or species of concern in the Southern Piedmont Region. These are Brown-headed Nuthatch, Prairie Warbler, Worm-eating Warbler, Chimney Swift, Field Sparrow, Wood Thrush, Kentucky Warbler, Prothonotary Warbler, and American Black Duck. Riparian floodplain habitats located along undeveloped portions of the reservoir shorelines, particularly in the upper end of High Rock Reservoir, were found to support the most diverse assemblages of Neotropical migratory birds.
BACKGROUND

As part of the relicensing process, APGI prepared and distributed, in September 2002, an Initial Consultation Document (ICD), which provides a general overview of the Project. Agencies, municipalities, non-governmental organizations and members of the public were given an opportunity to review the ICD and identify information and studies that were needed to address relicensing issues. To further assist in the identification of issues and study needs, APGI formed Issue Advisory Groups (IAG) to advise APGI on resource issues throughout the relicensing process. Through meetings, reviews, and comments, the IAGs assisted in developing the Study Plans for the various resource issues, and will further review and comment on the findings resulting from the implementation of the study plans. The Wetlands, Wildlife and Botanical IAG was interested in the current status of migratory and breeding birds at the Project. This report presents the findings of the avian inventory that was conducted to address this issue outlined in the Final Study Plan, dated June 2003.

INTRODUCTION

Alcoa Power Generating Inc. (APGI) is applying to the Federal Energy Regulatory Commission for a new license for the Yadkin Hydroelectric Project (FERC No. 2197). The Yadkin Project area comprises a series of four hydroelectric reservoirs located along the Yadkin River from near Salisbury, NC, to very near its confluence with the Uwharrie River just east of Albemarle, NC. From upstream to downstream, they are High Rock Reservoir (6143 hectare (ha); 15,180 acres), Tuckertown Reservoir (1036 ha; 2560 acres), Narrows Reservoir (2166 ha; 5352 acres), and Falls Reservoir (83 ha; 205 acres), comprising a total of 9428 ha (23,297 acres) and 895 kilometers (346 miles) in shoreline length. Within this reservoir complex there are some 40 islands ranging in size from less than half a ha (roughly 1 acre) to 40 ha (99 acres) with cover types ranging from bare sand to mature forest. The reservoirs span some 75 kilometers (29 miles) in linear distance and contain shoreline in 5 counties: Davie, Rowan, Davidson, Stanley, and Montgomery.

The Project reservoirs and surrounding habitats provide habitat for a variety of bird species. At least one federally listed species, the Bald Eagle, has been well documented and continues to be monitored in the project area. However, many more species are now under scrutiny with the formation of the Partners in Flight Bird Conservation Program (PIF) in 1990. This program is now international in scope and has the support of all 50 states. PIF has developed priority species lists for each physiographic region of the country. These lists are based on breeding distribution, habitat stability, population size and trends, threats to wintering sites, etc. (Carter et al., 2000). As a result, the lists have been adopted by most state and federal regulatory agencies as legitimate “watch” lists for species of management interest. This information, in conjunction with data on existing state and federally listed species, was used to prioritize survey effort within the project area.
Study Objectives

The primary objective of this study is to conduct an inventory of birds for the Yadkin Project area. Priority is given to documenting species of management interest or species already listed by state or federal authorities. Emphasis is also placed on documenting all species that breed in the area. Non-breeding season surveys provide insight into use of the Yadkin Project area by migratory birds. Habitats within the Yadkin Project area that received the most attention during surveys include the following:

1) Wetlands and riparian floodplain habitat;

2) Forest interior, including pine and hardwood dominated stands; and

3) Shrub-scrub habitat associated with early successional clear-cut areas.

METHODS

Study Area

The Yadkin Project area is located within portions of Davie, Stanley, Montgomery, Rowan, and Davidson Counties in North Carolina (Figure 1). The lands surrounding the Project are typically the relatively low, rolling terrain of the Southern Piedmont physiographic province. Elevations in the area range from approximately 100 to 300 meters above sea level.

All habitats within the Yadkin Project area were analyzed by aerial photos, aerial surveys, and ground-truthing. A study plan was then devised to sample all habitats within the Yadkin Project area as evenly as possible. The four main categories of habitat described in the Final Study Plan were mainland habitats, tributary headwaters and wetlands, islands, and open water. For surveying purposes, the habitat types were grouped into the following habitat categories:

1) Mainland habitats located along two transmission line corridors (an approximately 1 mile long corridor from Narrows dam, and an approximately 2 mile long corridor from Falls dam), and small areas of land around the 4 project dams and powerhouses. In addition, mainland habitats located within close proximity to the project reservoirs were also included in the survey. Equal numbers of hardwood and pine dominated stands were sampled.

2) Wetlands and riparian floodplain islands located in upper High Rock Reservoir and upper parts of Tuckertown Reservoir and Narrows Reservoir. Wetlands associated with Crane Creek cove were also surveyed.
Figure 1. Map of Yadkin Project study area.
3) Early successional shrub-scrub habitat associated with clearcuts.

4) Open water surveys were conducted on all four project reservoirs.

Islands were one of the habitats focused on in the Final Study Plan. Approximately 40 islands are located throughout the Yadkin Project reservoirs. Most of the islands are undeveloped. Approximately 28 points were distributed on islands throughout the Yadkin Project reservoirs. The islands offer no insularity or isolation between habitats and as such were grouped and analyzed within the three habitat types they are composed of; riparian floodplain, upland hardwood or pine dominated forest, and early successional shrub-scrub habitats.

The riparian floodplain habitat occurs in the upper stretches of High Rock Reservoir and also below the dams on the other reservoir systems. This habitat is characterized by having dense young willow (Salix spp.) stands on the edge of this habitat and older cottonwood (Populus deltoids), silver maple (Acer saccharinum), and sycamore (Platanus occidentalis) in the interior areas of the islands. This habitat also has numerous snags throughout. The upper High Rock Reservoir water level fluctuated greatly during the four survey rounds. At times, the willow habitat was dry and at other times it was inundated. The periodic fluctuation in water levels at the headwaters of the reservoirs provides large areas for seedling establishment of these species. This riparian floodplain habitat is quite extensive in the delta-like portions of upper High Rock Reservoir.

By most accounts, Piedmont forests were dominated by hardwoods at the time of early European settlement, and the extent far exceeded what exists today (Demarest, Southern Piedmont PIF Plan, in progress). Hardwood forests are still an important component in and around the Yadkin Project area. Characteristic species of these hardwood tracts are oak (Quercus spp.) and hickory (Carya spp.). The most common oaks of the Southern Piedmont are northern red (Quercus rubra), southern red (Quercus falcata), chestnut (Quercus prinus), white (Quercus alba), post (Quercus stellata), and black (Quercus velutina). The most common hickory species are shagbark (Carya ovata), pignut (Carya glabra), and mockernut (Carya tomentosa). The hardwood tracts in the project area tend to be older than the dominant pine forest habitat, though they are often just a thin buffer surrounding pine plantations.

Probably the most striking feature of the Yadkin Project area is the overall age class of the timber (Bradshaw et al., 1995). The vast majority of forest stands appear to have been harvested in the late 1950’s through the 1960’s. The pine stands located within the Yadkin Project area are uniform in both age and species composition, with the dominant species being Virginia pine (Pinus virginiana) and loblolly pine (Pinus taeda). The development of modern silvicultural practices since the 1950's has resulted in a dramatic shift in
forest structure and composition in the last 40 years (Watts, Mid-Atlantic PIF Plan, 1999). Pine plantations have replaced much of the historical hardwood stands due to their fast growing nature. This shift in the major forest habitat surrounding the Yadkin Project reservoirs is reflected in the bird community found to be utilizing the reservoirs and Project lands.

The early successional habitat associated with recent clearcuts is also a major component of the habitat found within the Southern Piedmont region. The loss of stable, early successional habitats in the region has contributed to the decline in abundance of species that require such habitat for breeding (Demarest, Southern Piedmont PIF Plan, in progress). This regenerating habitat in the Yadkin Project area was found primarily along the reservoir shorelines. A section of early successional habitat was also found along one of the transmission line corridors located near Narrows Dam. These habitats typically had a large section of young shrubby growth surrounded by a thin buffer of older pine or hardwood trees.

Effort was made to sample each habitat evenly when possible. A total of 21 points were established in early successional habitat, 24 in hardwood forest, 20 in pine forest, and 15 in wetland and riparian floodplain areas.

**Survey Techniques**

Birds within targeted habitats were surveyed using a variety of methods, including point counts, line transects, aerial surveys, and area searches. All point counts were conducted 2 times during the spring (between 22 May 2004 and 6 June 2004) and 2 times during the summer (between 25 June 2004 and 18 July 2004). Line transects were conducted on 12 October 2003, 7 February 2004, and 2 times each during the spring period (between 22 May 2004 and 6 June 2004) and 2 times during the summer period (between 25 June 2004 and 18 July 2004). Area searches were conducted once during the fall period (13 October 2003), once during the winter period (7 February 2004), 3 times during the spring survey period (between 15 March 2004 and 6 June 2004), and 2 times during the summer period (between 25 June 2004 and 18 July 2004). Aerial surveys were conducted on 1 March 2004 and on 13 May 2004. Data from another aerial survey (flown on 4 January 2005) was used to further aid in analysis of waterfowl habitat use on the reservoir system. All ground surveys were conducted between 0.5 and 5 hours after sunrise, during days with no steady precipitation and wind speeds of less than 24 km/h (15 mph). Aerial surveys were conducted on calm days with no precipitation.

**Point Counts** A combination of fixed-radius and variable-radius point count techniques were used to measure bird density and frequency of occurrence. A total of 81 point counts were established within the study area, 19 along the shoreline of the upper portion of High Rock Reservoir, 19 along the shoreline of the lower portion of High Rock Reservoir, 20 along the Tuckertown Reservoir shoreline, 19 along the Narrows Reservoir
shoreline, and 4 on Peartree Island (Figures 2-6) (See Appendix I for list of points with coordinates and associated habitat). Bird surveys were conducted by a single observer standing at the point center and counting all birds seen or heard within a 7 minute period. Surveys at points located along shorelines were conducted from a boat with the point location recorded in a GPS unit, while surveys of points located inland were conducted by foot at point centers marked by wire flags. Birds detected were stratified according to time period and location; the count period was subdivided into 0-3 minute, 3-5 minute, and 5-7 minute time periods, and birds were recorded as either within or beyond a 50 meter radius from the point center. The order in which points were surveyed changed each round to reduce the impact of time-of-day effects.

**Transect counts**-Transect counts were conducted along the two Yadkin Project transmission line (T-lines) corridors extending west from Narrows and Falls Dam. A total of 1,500 meters of transects were established along the access roads associated with the T-lines (Figure 7). Transect counts were conducted by a single observer walking slowly from a transect start to transect end, recording all species heard or seen on either side of the transect. Birds were recorded as occurring less than or greater than 50 meters from the transect line. All birds detected from the Falls Dam transect utilizing the dam or the open water were recorded as being greater than 50 meters away.

**Area Searches**-The 13 October 2003 survey was conducted in the T-line corridor near the town of Badin (Figure 7). The 15 March 2004 area search was conducted from public boat ramps (Figure 6a). The 7 February 2004 and the later spring and summer area searches were conducted in an approximately 8 ha area around the Narrows Dam and within an approximately 0.53 ha block of mixed-age habitat along the Falls T-line just north of the town of Badin (Figure 7). For the survey area around the Narrows Dam the observer stood on the western shore at the dam and record numbers and species detected above and below the dam, as well as on the dam and in the surrounding upland habitat. The area search near the town of Badin was conducted while slowly walking around the survey area recording numbers and species detected.

**Waterfowl Survey**-Waterfowl surveys were conducted along all major waterways to determine use of the project area by wintering waterfowl and cormorants. Aerial surveys were conducted on 1 March 2004 and on 13 May 2004. A high-wing Cessna 172 aircraft was used to systematically fly over the reservoir system in search of waterfowl. All waterfowl detected were counted and identified to species and plotted on 7.5 minute topographic maps. Data from another aerial flight flown on 4 January 2005 was used to verify habitat use within the reservoir system (Ken Knight, personal communication).

**Shoreline Survey**-Shoreline surveys were conducted throughout all survey periods in an effort to determine numbers and locations of Belted Kingfisher, Barn Swallow and Cliff Swallow nests. This survey was conducted while slowly motoring along the shoreline.
Figure 2. Location of point counts conducted within the upper portions of High Rock Reservoir.
Figure 3. Location of point counts conducted within the lower portions of High Rock Reservoir.
Figure 4. Location of point counts conducted within the Tuckertown Reservoir.
Figure 5. Location of point counts conducted within the Narrows Reservoir.
Figure 6. Location of point counts conducted on Peartree Island.
Figure 6a. Location of area searches conducted on 15 March 2004 from accessible boat ramps.
Figure 7. Location of line transects and area searches located along the Falls and Narrows transmission line corridors.
Incidental Sightings

In addition to the numerous surveys conducted within defined study areas, incidental sightings of species seen within and near the Yadkin Project area were also noted. Incidental sightings included species that had not been detected at survey points or species that had been detected at low numbers and were noteworthy. Incidental sightings generally occurred traveling between survey points. These sightings were included in the total species list but were not used for analysis purposes.

Data Summary and Analysis

Summer point count survey data were summarized to determine species richness and abundance for selected habitat types. Spring point count survey data were analyzed to determine density of migrants in selected habitat types. Neotropical migrant and species of concern (PIF “watch” species) densities were calculated by using mean number of individuals detected within 50 m at each point during the two summer surveys. Differences in densities among habitat types were analyzed using nonparametric Kruskal-Wallace ANOVA tests. Tukey honest significant difference tests were used in post-hoc analysis to determine which habitats contained significantly different densities. The line transect and area search data were summarized to determine frequencies of species detected during the winter, spring and fall migration, and the breeding seasons.

RESULTS

Over 7,000 detections were made of 124 species within the Yadkin Project study area during all surveys (See Appendix II for list of birds detected by each survey method and Appendix III for list of all species detected with scientific name and migration status).

Point Counts

A total of 4,634 detections were made of 97 species during the four survey rounds (the first two rounds were conducted between 22 May 2004 and 6 June 2004, the second two rounds were conducted between 25 June 2004 and 18 July 2004). Of these, 48 species were Neotropical migrants, 20 were temperate migrants, and 29 were non-migratory resident species. Carolina Chickadee, Red-eyed Vireo, Prothonotary Warbler, Common Grackle, Carolina Wren, Northern Cardinal, and Blue-gray Gnatcatcher accounted for 43% of all detections during the breeding season (See Appendix IV for list of birds detected by point and survey round). Species richness values were found to be the greatest at points associated with the early successional shrub-scrub habitat, followed by hardwood, pine, and willow/cottonwood island habitats (Figure 8).
A significant difference was noted in the densities of Neotropical migrants among habitat types (Kruskal-Wallace ANOVA H=14.95, p<.01). Post-hoc analysis showed significantly greater densities of birds within the willow/cottonwood island habitat than densities found within both the pine and hardwood habitat. Neotropical bird densities were highest within the willow/cottonwood island habitat (N=15 points, 9.09 birds/ha +/- 4.96 SD) and lowest within the pine habitat (N= 17 points, 4.04 birds/ha +/- 2.22 SD) (Figure 9). A significant difference was also noted in the densities of PIF “watch” species among habitat types (Kruskal-Wallace ANOVA H=13.35, p<.01). Post-hoc analysis indicated significantly greater densities of “watch” species within the willow/cottonwood island habitat than densities found within the hardwood habitat. Species of concern or “watch” species densities were observed to be the highest within the willow/cottonwood habitat (N=15 points, 4.41 birds/ha +/- 3.43 SD) and the lowest within the pine habitat (N=3 points, 1.69 birds/ha +/- .75 SD) (Figure 10).

Figure 8. Species richness values for habitats within the Yadkin Project area. Values are based on the accumulated totals of species detected at point counts over the four survey rounds (between 22 May 2004 and 18 July 2004).
**Figure 9.** Total density values for Neotropical migratory birds within the four main habitat categories on Yadkin Project lands. Values are based on the mean densities for birds detected within 50 m of the point count center over the four survey rounds (between 22 May 2004 and 18 July 2004).

**Figure 10.** Total density values for species of concern within the four main habitat categories on Yadkin Project lands. Values are based on the mean densities for birds detected during all four survey rounds (between 22 May 2004 and 18 July 2004) and within 50 m of the point count center.
**Line Transect:**

A total of 1,827 detections were made of 68 species along transects during all four survey seasons. Of the 68 species 29 were Neotropical migrants, 19 were temperate migrants, and 20 were non-migratory resident birds. On surveys conducted during the breeding season 290 detections were made of 46 species. The 46 species detected during the breeding season were comprised of 21 Neotropical species, 7 temperate migrants, and 18 resident species (See Appendix V for list of all birds detected along transects by season).

**Area Search:**

A total of 394 detections were made of 41 species in area searches during all four survey seasons. The five most frequently detected birds (Palm Warbler, Double-crested Cormorant, American Goldfinch, Cliff Swallow, and Carolina Chickadee) accounted for 53% of all birds detected. The most common bird detected during the spring and summer survey periods (Cliff Swallow) was found to be breeding on both Narrows and Falls Dams (See Appendix VI for list of all bird detected on area searches by season).

**Shoreline Survey:**

A total of 27 Belted Kingfisher recently active nest cavities were located in the Yadkin Project area (Figure 11). The vast majority of those nests were found on Badin Lake (14 nests) and High Rock Lake (11 nests) with Tuckertown Reservoir having only two nests. Both Badin and High Rock Lake have high sand banks that are considered better kingfisher nest substrate, while Tuckertown Reservoir has a much higher percentage of rocky banks (See Appendix VII for list of kingfisher nests and coordinates).

Cliff and Barn Swallows were found to be nesting at numerous locations throughout the Yadkin Project area. Approximately 150 Cliff Swallow and 20 Barn Swallow nests were located under I-85 bridge near Spencer, N.C. Approximately 200 Cliff Swallow and 40 Barn Swallow nests were found under the Tuckertown Reservoir bridge. Finally, approximately 50 Cliff Swallow and 20 Barn Swallow nests were located under the bridge between points 15 and 16 on lower High Rock Lake.

In addition to the kingfisher and swallow nests found, approximately 16 different Spotted Sandpipers were flushed while conducting the shoreline survey. However, no sandpiper nests were detected.
Aerial Waterfowl Survey

The aerial waterfowl survey conducted on 1 March 2004 resulted in the detection of 1,261 birds of 9 species at 44 locations (See Figure 12 and 13 for maps of flock locations and ID and Appendix VIII for flock composition data associated with flock ID). The two most common species detected, Ring-necked Duck and Mallard, accounted for 58% of detections. The 13 May 2004 aerial survey found small concentrations of two species, Mallard and Canada Goose. The 4 January 2005 survey found waterfowl in both low abundance and low species diversity (Ken Knight, pers. comm.). A total of 293 ducks comprised of 6 species and 233 geese were detected on the project reservoirs during this survey.

Incidental Sightings

A number of species were detected in or near the project area that were not detected on surveys elsewhere, and are worthy of note (Table 1). These species were recorded as incidental sightings and added to the total species list (Appendix III).

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Date Detected</th>
<th>Where Detected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peregrine Falcon</td>
<td>6/29/2004</td>
<td>Just west of Spencer, N.C.</td>
</tr>
<tr>
<td>Black Tern</td>
<td>5/31/2004</td>
<td>Narrows Reservoir</td>
</tr>
<tr>
<td>Common Tern</td>
<td>5/31/2004</td>
<td>Narrows Reservoir</td>
</tr>
<tr>
<td>Cooper’s Hawk</td>
<td>5/27/2004</td>
<td>Near Albemarle, N.C.</td>
</tr>
<tr>
<td>Laughing Gull</td>
<td>6/1/2004</td>
<td>Tuckertown Reservoir</td>
</tr>
<tr>
<td>Little Blue Heron</td>
<td>Multiple dates</td>
<td>Upper High Rock Reservoir</td>
</tr>
<tr>
<td>Cattle Egret</td>
<td>6/25/2004</td>
<td>Near Tuckertown Reservoir</td>
</tr>
<tr>
<td>Greater Yellowlegs</td>
<td>7/14/2004</td>
<td>Narrows Reservoir</td>
</tr>
</tbody>
</table>
Figure 11. Location of Belted Kingfisher nests (blue dots) located during shoreline surveys within the Yadkin Project area. Shoreline surveys were conducted between 22 May 2004 and 18 July 2004.
Figure 12. Locations of waterfowl flocks (red dots) detected during the 1 March 2004 aerial survey of the northern portion of the Yadkin Project area (data associated with each numbered flock located in Appendix VIII).
Figure 13. Locations of waterfowl flocks (red dots) detected during the 1 March 2003 aerial surveys of the southern portion of the Yadkin Project area (data associated with each numbered flock located in Appendix VIII).
DISCUSSION

Habitats within the Yadkin Project area support a diverse array of species. The various survey methods used to catalog species within the project area resulted in over 7000 detections of 124 species. Included in that total are nine species that PIF has designated as “watch” species, or species of concern, in the Southern Piedmont region. These include Brown-headed Nuthatch, Prairie Warbler, Worm-eating Warbler, Chimney Swift, Field Sparrow, Wood Thrush, Kentucky Warbler, Prothonotary Warbler, and American Black Duck. Prothonotary Warbler and Brown-headed Nuthatch accounted for 88% of total detections of “watch” species during the spring and summer point count surveys.

Brown-headed Cowbirds were the fifth most common bird detected on T-line surveys (which were roughly 10 to 20-meter wide corridors) during the spring and summer survey periods. In previous studies of similar width T-line corridors, Brown-headed Cowbirds were shown to have elevated abundances associated with the presence of mowed grass in the T-line corridors (Barber et al, 2001). Neotropical migrant species did not avoid the forest margins along narrow-width corridors (between 8-23 meters wide), but these corridors attract disproportionate numbers of predators and cowbirds (Barber et al, 2001). Forest-interior Neotropical migrant birds nesting near these narrow-width corridors are predated and parasitized at much higher rates than birds nesting in forest interiors (Mayfield, 1965; Gates and Gysel, 1978; Chasko and Gates, 1982; Brittingham and Temple, 1983; Barber et al, 2001). The effects of cowbird parasitism increase dramatically in mowed corridors, as the grass provides food for the cowbirds and the T-lines provide an area for males to display (Barber et al 2001). The effects of nest parasitism and predation could be reduced by allowing the mowed T-line corridors to develop into shrub-scrub type habitat rather than the grass dominated habitat that is present now. However, the poor, rocky soil may not allow for this management recommendation.

Hardwood habitats located within the Yadkin Project area support at least three PIF “watch” species (Wood Thrush, Worm-eating Warbler, and Kentucky Warbler). This habitat is also important for Neotropical migratory birds passing through. Management recommendations for this habitat type are to allow the hardwood stands to reach a late successional stage. Late successional hardwood habitats provide the largest species richness and abundance of hardwood habitat types.

The pine islands of the reservoir chain offer some insularity from tree climbing predators. This is probably the reason that the majority of Great-blue Heron rookeries in the Yadkin Project area are located on islands within the reservoir complex. Great Egrets were also found to be nesting in these rookeries (Watts and Bradshaw, 2004). The islands containing rookeries should be kept free of disturbance during the May through June
breeding season. These islands were not surveyed because of potential disturbance issues.

The highest densities of breeding and migrating Neotropical migrants were found to occur within the riparian floodplain habitat. These floodplain habitats are unique in the physiographic province and provide habitat for a variety of birds. The riparian floodplain habitat housed a diverse assemblage of Neotropical migratory birds, including high concentrations of the Prothonotary Warbler, a PIF “watch list” species. Another particularly interesting species detected during point count surveys within this habitat is the Willow Flycatcher. While most of the Willow Flycatcher detections occurred during the spring surveys, at least two defensive pairs were recorded during the summer surveys. These represent some of southeastern most breeders in the population. The Willow Flycatcher typically needs moist, shrubby areas to breed in. The delta-like floodplain islands in the upper reaches of High Rock Reservoir provide such habitat. The light, windblown seeds of willow and cottonwood need moist bare soil to germinate (Everitt, 1968; Eyre, 1980). The easiest way to manage for this crucial habitat within the Yadkin Project area is to allow for periodic fluctuations in water levels, though not during the breeding season (mid-May through mid-July).

Another interesting species detected during point count surveys and shoreline surveys was the Spotted Sandpiper. A few Spotted Sandpipers were recorded during the breeding season (mid June through early July). The sandpipers have a non-breeding segment of their population that makes it very difficult to confirm breeding. The only way to prove breeding is by finding a nest or an adult feeding downy young (Ringler, 1996). No nests were found during the Yadkin Project study, but the possibility remains that these sandpipers could be breeding in the area. This species (and low nesting Prothonotary Warblers and possibly other low nesting birds in the willow habitat) are the only species found within the Yadkin Project area that could be affected by rising water levels during the breeding season. Flooding of these species nests could be avoided by maintaining a relatively constant level of water during the breeding season (mid-May through mid-July).

The high species richness and density of Neotropical migrants observed in the early successional shrub-scrub habitat can be explained by several factors. Clear-cut areas surveyed were bordered by a thin section of pine or hardwood, creating an edge effect between two separate habitats. This edge effect can concentrate species between two habitat types, thereby increasing species richness within the shrub-scrub habitat (Marini et al, 1995). Density of birds has also been shown to be higher in edge habitat (Hansson, 1983). The ecological-trap hypothesis first proposed by Gates and Gysel (1978) suggested that passerines are attracted to the vegetative diversity of edge habitats but experience greater predator activity at the edge. The Prairie Warbler and Field Sparrow, PIF “watch” species, use shrub-scrub habitat for breeding (Wilson and Watts, 2001). Management considerations (taken from Melchiors, in press) for this type of habitat in the Yadkin Project area include:
-Reducing intensive mechanical disturbance during site preparation to maintain rootstocks of woody shrubs and broadleaf trees.

-Reducing planting density and increasing row spacing to extend the time to canopy closure.

-Reducing or delaying hardwood control in early successional pines.

-Retaining scattered mature hardwoods in or near early successional pines for Orchard Orioles.

-Reducing this habitat type early to promote shrub and hardwood development under an open pine canopy.

The habitat with the lowest observed bird densities was the monoculture pine plantations located near the project reservoirs. While both young (1-5 years) and old (>100 years) pine forests support large communities of birds, intermediate aged pine forests support very few species, migratory or resident (Freemark et al, 1995). At least one important PIF “watch” species, the Brown-headed Nuthatch, is a southeastern pine ecosystem obligate. It is a species found in pine plantations 1-2 years after thinning (Wilson and Watts, 2000). The large canopy openings created during thinning allow for understory regeneration and have a positive influence on species richness and diversity. Occurrence of the Brown-headed Nuthatch is negatively influenced by hardwood tree density which is lower in stands one year after thinning (Wilson and Watts, 1999). Thinning is an effective management strategy in pine plantations located in the Yadkin Project area because it benefits nuthatches in the short term and species richness and diversity in the long term.

The fall and winter Narrows and Falls T-line corridor surveys detected low diversity and numbers of migrant and wintering birds. The patchy, grassy habitat along the T-line corridors provides poor habitat for migrant or wintering birds. Much of the T-line corridor habitat is exposed rock. The T-line is too narrow to provide any substantial habitat for wintering birds. The T-line corridor is not currently an important migratory bird use area.

Overall, the Yadkin Project area provides little suitable habitat for waterfowl. The aerial waterfowl survey conducted on 1 March 2004 found waterfowl congregating mainly on the Duke Power settling ponds. There were small rafts of ducks elsewhere, but not in any large groups. This pattern of use has been confirmed by other waterfowl surveys (Ken Knight, pers. comm.). The lack of shallow water and emergent vegetation in the reservoir system deters waterfowl use.
ACKNOWLEDGMENTS

This project would not have been possible without the help of many people. Wendy Bley provided assistance through all aspects of the field project. Marshall Olson and Bob Smet provided training and onsite logistical support. Lydia Whitaker, Carlton Adams, Renee Peace, Anne Womack, Gloria Sciole, Mark Roberts, and Cheryl Pope provided important administrative support from the College of William and Mary. This project was funded by ALCOA Power Generating, Inc.

LITERATURE CITED


Watts, B. D. Partners in Flight Atlantic Coast Plan. PIF document.


Appendix I. List of points with coordinates and associated habitat.

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Appendix II (continued). List of species detected by survey method.

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### Appendix III. List of all species detected with scientific name, AOU alpha code, and migratory status.

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### Appendix III (continued)

List of all species detected with scientific name, AOU alpha code, and migratory status.

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### Appendix III (continued). List of all species detected with scientific name, AOU alpha code, and migratory status.

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Appendix IV. List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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### Appendix IV (continued)

List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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Appendix IV (continued). List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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| BLJA    | HRL-15| 0       | 1       | 0       | 0       | 1      |
| BLJA    | HRL-16| 0       | 1       | 0       | 0       | 1      |
### Appendix IV (continued)

List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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Appendix IV (continued). List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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**Appendix IV (continued).** List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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Appendix IV (continued). List of birds detected within 50 meters of point count center by point and survey round. Survey rounds 1 and 2 were conducted between 22 May 2004 and 6 June 2004. Survey rounds 3 and 4 were conducted between 25 June 2004 and 18 July 2004.

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Appendix V. List of birds detected along transects by season. One fall transect took place on 12 October 2003. One winter transect was surveyed on 7 February 2004. The three spring transects were conducted between 15 March 2004 and 6 June 2004. The two summer transects were conducted between 25 June 2004 and 18 July 2004.

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Appendix V (continued). List of birds detected along transects by season. One fall transect took place on 12 October 2003. One winter transect was surveyed on 7 February 2004. The three spring transects were conducted between 15 March 2004 and 6 June 2004. The two summer transects were conducted between 25 June 2004 and 18 July 2004.

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<th>Summer</th>
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Appendix VI. List of birds detected on area search surveys by season. The one fall survey took place on 13 October 2003. The one winter survey took place on 7 February 2004. The three spring surveys were conducted between 15 March 2004 and 6 June 2004. The two summer surveys were conducted between 25 June 2004 and 18 July 2004.

<table>
<thead>
<tr>
<th>Common Name</th>
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<th>Summer</th>
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Appendix VII. List of belted kingfisher nests with coordinates and location. Nest surveys took place throughout the spring and summer survey seasons.

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Appendix VIII. List of waterfowl flock IDs with topographic quadrangle name and species composition. Data collected during the 1 March 2004 aerial survey.

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