

The Raven

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Activities undertaken by the Society include the following:

1. An annual meeting (usually in the spring), held in a different part of the state each year, featuring talks on ornithological subjects and field trips to nearby areas.
2. Other forays or field trips lasting a day or more and scheduled throughout the year so as to include all seasons and to cover the major physiographic regions of the state.
3. A journal, *The Raven*, published twice yearly, containing articles relevant to Virginia ornithology as well as news of the activities of the Society and its chapters.
4. A newsletter, the *VSO Newsletter*, published quarterly, containing current news items of interest to members and information about upcoming events and pertinent conservation issues.
5. Study projects (nesting studies, winter bird population surveys, etc.) aimed at making genuine contributions to ornithological knowledge.

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Communal Nesting and Probable Polygyny of Barn Owls (*Tyto alba*) in Virginia's Shenandoah Valley

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Key words: Barn Owl; *Tyto alba*; nest; silo; breeding behavior; polygyny; communal nesting.

ABSTRACT

On 21 May 2017, we documented two active Barn Owl (*Tyto alba*) nests in one silo within the Shenandoah Valley Raptor Study Area of Virginia. To our knowledge, this is the first report of communal, and presumed polygynous, nesting of this species in Virginia.

INTRODUCTION

Barn Owls (*Tyto alba*) are considered monogamous with pairs typically remaining together life-long (Bunn et al. 1982, Marti 1994). They are non-migratory throughout most of their cosmopolitan range and demonstrate fidelity to their nesting territory through repetitive breeding seasons (Bunn et al 1982, Marti 1999). Nest sites are separate but may be in close proximity, with reports of active nests as close as 800 m in northwest England (Bunn et al 1982) and 419 m in Rockingham County, Virginia (Morrow and Morrow 2018). Even same site, communal nesting with probable or documented polygyny has been reported (Callion 1973, Baudvin 1975, Schönfeld and Girbig 1975, Bunn et al. 1982, Taylor 1994, Post et al. 2004, Hadad et al. 2015). We report one such communal nesting of two females, with presumed polygyny, in Rockingham County, Virginia.

METHOD

In the course of surveying for the Virginia Breeding Bird Atlas 2 project (VABBA2) the authors examined several historic Barn Owl nest sites previously documented by Morrow et al (2009). The sites were within the Shenandoah Valley Raptor Study Area of Virginia (SVRSA), which encompasses approximately 38,300 hectares of northern Rockingham and southern Shenandoah Counties, as described by Morrow and Morrow (2015).

RESULTS

In the early afternoon of 21 May 2017, two active Barn Owl nests were discovered in one silo, site A9 within the

SVRSA, located 1654 m SW of the Timberville VA post office in Rockingham County. This cylindrical silo had an open chute tube at the top and an open side window approximately 2/3 of the distance to the top. Our access into the silo was through this side opening onto the abandoned silage.

Furthermore, there were two additional, but separate, active Barn Owl sites in nearby structures. One, in a nest box inside a retired hay dryer (site A10, 419 m ESE of site A9) and the other in a retired concrete silo (site A8, 579 m NNW of site A9) (Morrow and Morrow 2018).-

Upon entering the silo, an adult Barn Owl immediately rose up and flew out the top opening. This owl arose from an area where a clutch of four eggs was promptly found on the silage surface (Fig. 1). The eggs, of typical size and color for Barn Owls, were still warm, indicating active



Fig 1. Clutch of 4 Barn Owl eggs on silage surface, freshly vacated by an incubating female owl.

incubation. The second nest was located after hearing screeching calls of young owls. This nest was located at the end of a silage burrow approximately 3 m from the first nest. The burrow was approximately 0.5 m in diameter, nearly 2 m deep, and on a horizontal axis. At the mouth of this burrow, and partly covered in silage, was the decayed and desiccated body of an adult Barn Owl. At the terminus of the burrow were one adult Barn Owl and three young owls, all standing in a defensive posture, with wings partly spread, several of which were actively hissing and bill snapping. The adult owl was manually extracted from the burrow and banded with an aluminum USGS numbered band. This adult was large with considerable buffy tones on the breast, consistent with a female. Upon release, it flew out of the silo. The young owls were full-sized, with fully feathered head and body and some residual natal down ventrally and about the head, consistent with an age of at least 50 days (Marti 2005). The owlets were then extracted, one by one, banded and released back onto the abandoned silage. They did not attempt to fly.

DISCUSSION

The clutch of 4 Barn Owl eggs laid on top of abandoned silage (Fig. 1) may have been incomplete. Clutch size of Barn Owls is highly variable with recorded clutches as large as 11 (Bunn, et al. 1982). In multiple North American studies mean clutch size was between 5 and 7 eggs (Marti et al. 2005). Average clutch sizes in the SVRSA is 5.5, based on *n* of 35 clutches (Morrow and Morrow 2018).

The second nest, containing the adult and young owls, was in a silage burrow. Barn Owls do not construct nests, but are known to burrow into soft soil of arroyo walls in Colorado and Utah (Martin 1973, Millsap and Millsap 1987). We've encountered several Barn Owls nesting in burrows in abandoned silage within the SVRSA (Morrow et al. 2009). Burrows apparently offer concealment plus an insulated refuge from extreme temperatures. The Millsaps documented a mean 3° C difference in burrow vs. ambient temperature, as well as significantly reduced daily temperature fluctuations within burrows (Millsap and Millsap 1987). In July, their arroyo burrows were consistently cooler than ambient surroundings and in April, burrow nests were warmer. We assume that a similar microclimate existed in our burrow. Whether this insulated location contributed to the incubation success and survival of the chicks is unknown and highly speculative. Given the estimated age of at least 50 days of these young owls, plus an average Barn Owl incubation period of 30 days (Smith et al. 1974, Marshall et al. 1986), the burrow clutch must have been initiated in early March, about 11 weeks before the second clutch on the silage surface.

Our observations indicate that these nests were attended

by two different females. The owl that initially flew out of the silo must have been a female since it vacated a clutch of still warm eggs. Only female Barn Owls have a brood patch and incubate (Marti et al. 2005). The adult in the burrow was judged to be female by its size and plumage, and because it was roosting with the young.

Because of what we know about Barn Owl breeding and sexual behavior (Marti et al. 2005, Bunn et al. 1982), we think it highly unlikely that both females were paired with separate males. Although male Barn Owls are not territorial and readily share foraging areas with other males (Bunn et al. 1982), they will attack rival males that intrude into an active nest site of a female, an attack considered mate guarding rather than defense of a physical space (Marti et al. 2005, Ramsden 2012). We did not examine the desiccated Barn Owl carcass at the burrow entrance in any detail, but in retrospect wonder if this could have been a rival male that succumbed in a fight for one of the females. Of course, the carcass could also have been a totally unassociated mortality from a prior season. Nevertheless, at the time of our encounter, we presume that there was a single male attending to and provisioning both females, that is, a polygynous breeding arrangement. That we did not see a third, presumed male, is not unexpected. During the day, male Barn Owls commonly roost in a different, but nearby, location to their mated females on eggs or with nestlings (Marti et al. 2005, Morrow and Morrow personal observation).

That one male could provision an incubating female while simultaneously helping a second female feed a clutch of nestlings would require a local habitat with ample prey. We think that the local habitat was indeed supportive of the caloric demand of such an arrangement, especially since there were two other separate active Barn Owl nests within 419 m and 579 m (Morrow and Morrow 2018). This proximity of at least four active nests suggests loose colonial breeding, a phenomenon reported by others (Bunn et al. 1982, Bruce 1999).

In the multiple reports of communal (same site) nesting Barn Owls, polygyny was presumed by the circumstances (Baudvin 1975, Schönfeld and Girbig 1975, Post et al. 2004), while in a few it was established (Bunn 1982, Taylor 1994, Hadad et al. 2015). For example, Baudvin in Burgundy, France found two active nests in one church tower and three in another (Baudvin 1975). None of the adults were captured and banded, so the exact pairings were not known. However, Baudvin considered it improbable that such close communal nesting was by multiple pairs, and therefore, presumed polygyny. Confirmed polygyny was documented by Marti in Utah, where he observed and collected data from three separate trios (Marti 1990). Each trio was comprised of two females and one male,

individually identified through banding or plumage pattern. Each trio established active double nests within three separate nest boxes. In two cases the egg clutches were separated by only a few centimeters and the females were observed incubated side-by-side without conflict. In Israel, Hadad documented two females actually sharing one nest scrape and co-incubating a total of 20 eggs, of which 19 hatched and 16 young fledged (Hadad et al. 2015).

Polygyny in our case is presumptive, based on the presented circumstantial evidence. To conclusively document polygyny with genetic testing would require tissue DNA samples from all the nestlings, the parental females, and ideally the putative single male parent. We were not equipped to obtain such samples at the time of our single encounter with this communal nesting and additional visits and or captures would risk nest or young abandonment. However, portable field kits to obtain and preserve such samples are readily assembled and highly polymorphic microsatellite markers have been optimized for Barn Owls and shown to be useful in other owl species (Klein et al. 2009). With a modest sample of the local population, data from these markers would likely allow nestlings in two broods to be classified as full sibs, half sibs or unrelated, even in the absence of data from the putative parents. Thus, future researchers interested in this and related questions could go into the field prepared to obtain the requisite samples when the opportunity arises.

Monogamy is the default breeding strategy for all owls, with males the primary provisioner for incubating females and early nestlings. Polygyny is therefore rare and restricted to periods of abundant prey that allows one male to provide for more than one nesting female (del Hoyo et al. 1999, Lorpimäki 1988). Polygyny has been reported in owls other than Barn Owls, including Eurasian Scops Owl (*Otus scops*), Snowy Owl (*Bubo scandiaca*), Tawny Owl (*Strix aluco*), Ural Owl (*Strix uralensis*), Northern Hawk Owl (*Surnia ulula*), Long-eared Owl (*Asio otis*), Boreal Owl (*Aegolius funereus*), Northern Saw-whet Owl (*Aegolius acadicus*) (del Hoyo et al. 1999) and Eurasian Eagle Owl (*Bubo bubo*) (Martinez et al. 2005).

Outside North America, communal nesting by Barn Owls, with presumed or documented polygyny, has been reported from France (Baudvin 1975), Germany (Schönfeld, M. and G. Girbig 1975, Boenigk 2000), England (Bunn et al. 1982, Taylor 1994), Scotland (Callion 1983) and Israel (Hadad et al. 2015). In North America, the only reports that we are aware of are from Utah (Marti 1990) and South Carolina (Post et al. 2004). This report, therefore, represents the second from the eastern United States and the first in Virginia. Researchers, conservationists and birders who are monitoring or actively searching for Barn Owl nests should

be aware of this rarely documented breeding phenomenon.

PERMITS

Barn Owl research and banding was conducted under Federal banding permit 23137 and Virginia bird banding permit 58701.

ACKNOWLEDGEMENTS

First, we express our gratitude to landowners, who allowed multiple annual checks for Barn Owls. We thank USGS Bird Banding Laboratory. We also thank Stephen Rannels and John Rowlett for reviewing various drafts of this manuscript and Michael Braun for guidance regarding DNA test systems.

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2018 ANNUAL REPORT OF THE VIRGINIA AVIAN RECORDS COMMITTEE

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The members of the 2018 Virginia Avian Records Committee (VARCOM) were Mike Stinson (Chair), Ellison Orcutt (Vice Chair), Lewis Barnett (Secretary), Matt Anthony, Todd Day, Gerry Hawkins, Gerco Hoogeweg, John Rowlett, and Dave Youker.

The Committee held its annual meeting in Richmond on 24 March 2018. Among the topics discussed were:

- suggested refinements to the language defining acceptance categories;
- suggested enhancements to the DOVES online submission and review platform;
- adding *abieticola* to the list of Red-tailed Hawk taxa that will not be reviewed;
- adding Northern Goshawk to the list of review species; and
- adding Brewers Blackbird to the list of review species

While there was an official quorum, last minute obligations kept several voting members from attending the meeting, so decisions on these topics were tabled until arrangements could be made for the full committee to weigh in on them. Minutes of the discussion are available on request from the Secretary and will be made available on the VARCOM web page.

The Virginia Official List was updated by Gerry Hawkins and Rob Bielawski to reflect changes in the American Ornithological Society's 59th Supplement to its Checklist of North and Middle American Birds (Chesser et al. 2018). These changes were restricted to some taxonomic ordering and naming changes but did not add or remove any birds from the Virginia Official List. The list can be seen at <http://www.virginiabirds.org/varcom/official-state-list/>.

The following decisions were made by VARCOM during calendar year 2018. 51 submissions were accepted, five were not accepted. Of the 51 accepted records, 33 were vetted through the eBird Expedited Review process and 18 went through the traditional review process. Accepted records fall into one of the six categories defined in VARCOM's bylaws, which can be found on the VARCOM website at <https://www.virginiabirds.org/varcom/bylaws/>.

Abbreviations: ph. – photographed; † - written documentation submitted; ar. – audio recording; vr. – video recording; * - specimen collected; CBC – Christmas Bird Count; eBird – accepted by expedited review; ML XXXXXXXX – Macaulay Library identification number

RECORDS ACCEPTED

Black-bellied Whistling Duck (*Dendrocygna autumnalis*): four records, as follows:

Two individuals, private location, Virginia Beach [ph. † Timothy Barry] 22 April 2017; accepted Category 1. 12th Coastal Plain record since 2004 Review List.

Flock of 18, Temple Lake, Colonial Heights. [ph. Jennifer Grundy] 15 May 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S45705668>. ML100323631. 13th Coastal Plain record since 2004 Review List.

Flock of 7, Lake Louisa, Louisa County. [ph. Renee Peters] 26 May 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S46054462>. ML102129351. Sixth Piedmont record.

Flock of 3, 33200-33242 Barnes Church Circle, Newsoms, Southampton County. [ph. Bill Reddinger] 30 May 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S46157875>. ML10260880. 14th Coastal Plain record since 2004 Review List.

Brant (*Branta bernicla*): two records, as follows:

One adult, Walmart Ponds, Colonial Heights, [ph. Lewis Barnett, ph. James Fox, m. obs.] First reported by Allen Bryan, 30 November – 6 December 2017; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S40879497>, ML77071361 ML77114901 ML77114911.

- One Adult, Piedmont Geriatric Hospital, Nottoway County. [ph. Evan Spears] 24 January 24 – 25 March 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S41893876>, ML81935041 ML81935051. Fourth Piedmont record.
- Eurasian Wigeon** (*Mareca penelope*): One adult male, Pohick Bay Regional Park, Fairfax County. [ph. Linda Chittum, m. obs.] 29 December 2017 – 18 February 2018; accepted Category 1 (eBird) <http://ebird.org/ebird/view/checklist/S41555964>, ML80389551. Fourth Western Coastal Plain record since 2012 Review List.
- Harlequin Duck** (*Histrionicus histrionicus*): One adult male, Grandview Nature Preserve, Hampton [ph. Tamara Conklin] First reported by Tamara Conklin and Eric Alton, 19 November 2017; accepted. Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S40606763>, ML75625161 ML75625171.
- Western Grebe** (*Aechmophorus occidentalis*): One individual, Horn Point Road, Virginia Beach. [ph. Karen & Tom Beatty, Kathy Louthan] 6 April 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S44299907>. ML93170701 ML93170731 ML93170761 ML93170811 ML93218511 ML93218561. Sixth Coastal Plain record since 2014 Review List.
- Whimbrel** (*Numenius phaeopus*): Flock of 57, Rockfish Gap, Augusta County [ph. † Dan Bieker, m. obs.] 20 May 2018; accepted Category 1. Second Mountains and Valleys record since 2004 Review List.
- Ruff** (*Caladris pugnax*): One individual, Hog Island WMA, Surry County. [ph. Andrew Baldelli, Tracy Tate] 20 July 2018 – 23 July 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47311716>. ML108054591 ML108054621 ML108054651. Fifth Coastal Plain record since 2004 Review List.
- Willet (Western)** (*Tringa semipalmata inornata*): One individual, King Family Vineyard, Albemarle County [† David Shoch, m. obs.] 1 August 2018; accepted Category 2. Third Piedmont record since 2004 Review List.
- Red-necked Phalarope** (*Phalaropus lobatus*): two records, as follows:
- Two individuals, Target Distribution Center Pond, Stuart's Draft, Augusta County [ph. † video Brenda Tekin] 14 September 2017; accepted Category 1. Eighth MV record since 2004 Review List.
- One individual, Old Farm Road, Rockbridge County [ph. † Richard Rowe, Kerry Kilday] 9 September 2018; accepted Category 1. Ninth MV record since 2004 Review List.
- Black-legged Kittiwake** (*Rissa tridactyla*): One first year bird, Stumpy Lake Natural Area, Virginia Beach [ph. Jonathan Snyder.] 4 December 2017 – 1 January 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S40911219>, ML77260701, ML77260831. Fourth inland Coastal Plain record. Fifth onshore Coastal Plain since 2004 review.
- Sabine's Gull** (*Xema sabini*): One individual, John H. Kerr Reservoir, Mecklenburg County [ph. † Jeff Blalock] 15-17 September 2018; accepted Category 1. Fourth Piedmont record.
- Black-headed Gull** (*Chroicocephalus ridibundus*): One immature individual. Gravelly Point Park, Arlington County. [ph. Russell Taylor, Phil Kenney] First reported in Virginia by Phil Shenot after being initially reported in DC by Gerry Hawkins. 23 September 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S48696156> ML115964101 ML115964111 ML115964121 ML115970401 ML115970411 ML115970421. Fourth inland Coastal Plain record.
- Little Gull** (*Hydrocoloeus minutus*): One individual, Loudoun Lowes Island ponds, Loudoun County. [ph. Dave Czaplak] First observed over Maryland waters, later reported in Virginia by Dave Czaplak and Mary Ann Todd. 19 April 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S44726602> ML95337841 ML95337851 ML95337871. Second Piedmont record.
- Franklin's Gull** (*Leucophaeus pipixcan*): One individual, Hunting Creek Bridge, Fairfax County. [ph. Dixie Sommers] First reported by Howard Youth. 4 August 2018 – 5 August 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47687998>. ML109910721 ML109910731 ML109910991. Fourth Piedmont record.
- Glaucous Gull** (*Larus hyperboreus*): One first year individual, Occoquan Regional Park, Fairfax County. [ph. Howard Wu, m. obs] First reported by Ft. Belvoir CBC counters Phil Silas, Quinn Emmering, Scott Priebe, Adam Glass, 31 December 2017 – 14 February 2018; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S41503661> ML80063061 ML80063081 ML80063101 ML80063141. Fourth Piedmont record.
- Sooty Tern** (*Onychoprion fuscatus*): One individual, John H. Kerr Reservoir, Mecklenburg County [† Adam D'Onofrio] 17 September 2018; accepted Category 2. Ninth Piedmont record.
- Gull-billed Tern** (*Gelochelidon nilotica*): One individual, Hog Island WMA, Surry County. [ph. Adam D'Onofrio] First reported by Eric Alton and Tamara Conklin. 28 July 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47506752>. ML108968321 ML108968381. Second Western Coastal Plain record.

Black Skimmer (*Rynchops niger*): One individual, John H. Kerr Reservoir, Mecklenburg County [† Jeffrey Blalock] 14 September 2018; accepted Category 2. Fifth Piedmont record.

Brown Booby (*Sula leucogaster*): two records, as follows:

One adult, John H. Kerr Reservoir – Tailrace Park, Mecklenburg County. [ph. Paul Glass, Adam D’Onofrio, Jeffrey Blalock] 31 March 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S44139017>, ML92254871 ML92280951 ML92280991 ML92296211 ML92296341 ML92296391. Second Piedmont record.

One adult, Jones Neck, Henrico County. [ph. Barbara Slatcher, m. obs.] 2 April 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S44241591>, ML92852371. Third Coastal Plain record since 2004 Review List.

Anhinga (*Anhinga anhinga*): Two records, as follows:

Two individuals, 287 Red Mill Lane, Augusta County [† Allen Wolf] 14 May 2018; accepted Category 2. Fourth Mountains and Valleys record.

One individual, near intersections of state routes 831, 652, and 654, Stuart’s Draft, Augusta County [ph. † Victor Laubach, Elaine Carwile, Allen Larner] 25 May 2018; accepted Category 1. Fifth Mountains and Valleys record.

American White Pelican (*Pelecanus erythrorhynchos*): Flock of 50. Piney River Trail, Nelson County [ph. † Howard Miller, Merle Nisly] 11 April 2018; accepted Category 1. Seventh Piedmont record.

Brown Pelican (*Pelecanus occidentalis*): One adult. Sandy River Reservoir – Dam and Boat Launch Area, Prince Edward County. [ph. m. obs.] Originally found by Warren Rofe. 20 September 2018 – 23 September 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S48630942> ML115595491. Sixth Piedmont record.

Snowy Egret (*Egretta thula*): two records as follows:

One individual, Fairy Stone State Park, Patrick County [ph. Matt Anthony, Erin Chapman] 16 April 2017; accepted Category 1 (eBird); <https://ebird.org/ebird/atlasva/view/checklist/S36020441>, ML54806551. Third Mountains and Valleys record since 2004 Review List.

One individual, Totier Creek Reservoir Park, Albemarle County [ph. † Baxter Beamer] 15 July 2017; accepted Category 2. Eight Piedmont record since 2004 Review List.

Little Blue Heron (*Egretta caerulea*): One individual, Cottage Hill Farm, Augusta County [† Herbert Larner] 22 July 2018; accepted Category 2. Not on Review List – courtesy review.

Tricolored Heron (*Egretta tricolor*): three records, as follows:

One individual, Blandy Experimental Farm/State Arboretum of Virginia, Clarke County [ph. David Carr, m. obs.] 2 August 2018 – 18 August 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47609908>. ML109480951. Third Mountains and Valleys record since 2004 Review List.

One individual, Ivy Creek Natural Area, Albemarle County. [ph. Connor Farrell] 20 August 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47967317>. ML111601301. Seventh Piedmont record since 2004 Review List.

One adult. Grundy Riverwalk Area, Buchanan County. [ph. Ellison Orcutt] 21 September 2018; accepted Category 1 (eBird); <https://ebird.org/va/view/checklist/S48660079> ML115758551 ML115758561. Fourth Mountains and Valleys record since 2004 Review List.

Roseate Spoonbill (*Platalea ajaja*): three records as follows:

One individual, Old Mill Park, Fredericksburg. [ph. † Jim Goehring] First observed by Sally Knight. 4 June 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S46304308> ML103259901 ML103259941. Third state record and second Coastal plain record.

One individual, Private property near Stonehouse Lake Park, Amherst County. [ph. Bob Epperson] Reported by “local boaters.” 9 June 2018; accepted Category 1 (eBird); <https://ebird.org/atlasva/view/checklist/S46424766> ML103820601 ML103820651. Fourth state record and first Piedmont record.

One individual, Hog Island WMA, Surry County [ph. Timothy Burnett, m. obs.] 25 July 2018 – 4 August 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47448254> ML108668921. Fifth state record and third Coastal Plain record.

Swallow-tailed Kite (*Elanoides forficatus*): two records, as follows:

One adult, Meadewood Dr., Hollins, Roanoke County [ph. Katherine James] 31 March 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S44123218>, ML92188001. Ninth Mountains and Valleys record.

One individual, Jennings Ordinary Rd., Burkeville, Nottoway County. [ph. Amanda Dymancek] 29 July 2018; accepted Category 1 (eBird); <https://ebird.org/view/checklist/S47518538> ML109049781 ML109049861. Eight Piedmont record since 2004 Review List.

Prairie Falcon (*Falco mexicanus*): One individual, Alexandria Power Plant, Alexandria [ph. † Sherman Suter, m. obs.] Originally reported by Greg Gough, 25 March 2017 – 18 April 2017; accepted Category 1. First state record.

Gyr Falcon (*Falco rusticolus*): One individual, Lowe's Island Golf Club, Loudon County [ph. † Dave Czaplak] 13 December 2017; accepted Category 1. Fourth state record, first Piedmont record.

Ash-throated Flycatcher (*Myiarchus cinerascens*): One individual, Back Bay NWR, Virginia Beach [ph. Rob Bielawski] 17 October 2017; originally found by David Hughes; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S39980408> ML72229431 ML72229441. Ninth Coastal Plain record since 2004 Review List.

Alder Flycatcher (*Empidonax alnorum*): One individual, Lickinghole Creek, Albemarle County [ph. † ar. Marshall Faintich] 11 September 2018; accepted Category 1. Second Piedmont record since 2004 Review List.

Say's Phoebe (*Sayornis saya*): One individual, Hybla Farm, King William County [ph. Arun Bose, Ellison Orcutt, Todd Day, m. obs.] Originally found by Nick Flanders, 31 December 2017 – 3 January 2018; ; accepted Category 1 (eBird); <http://ebird.org/ebird/va/view/checklist/S41477901>, ML79989011, <http://ebird.org/ebird/view/checklist/S41556791>, ML80312941 ML80312961. Fourth Coastal Plain record since 2004 Review List.

Northern Shrike (*Lanius borealis*): One individual, Sully Woodlands, Fairfax County [ph. Howard Wu, m. obs.] 4 November 2017 – 28 April 2018; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S40298145>, ML74095161 ML74095191 ML74095201 ML74095211 ML74095221. Third Piedmont record since 2004 Review List.

Nelson's Sparrow (*Ammospiza nelsoni*): One individual, Petersburg National Battlefield Park – Western Front Section [† Adam D'Onofrio] 15 October 2017; accepted Category 2. Second Piedmont record since 2012 Review List.

Harris's Sparrow (*Zonotrichia querula*): One first winter individual, White House Boat Ramp, Page County, [ph. James Fox, m. obs.] 3 December 2017- 14 February 2018; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S40885408> ML77110651 ML77110701. Ninth Mountains and Valleys record.

White-crowned Sparrow (Gambel's) (*Zonotrichia leucophrys gambelii*) One adult, private residence, Shenandoah County [ph. Ed Trelawny] 27 December 2017; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S41356212> ML79587401 ML79590121. This is the sixth state record for this subspecies of White-crowned Sparrow, and the fourth Mountains and Valleys record.

Yellow-headed Blackbird (*Xanthocephalus xanthocephalus*): One individual, Staunton View Public Use Area,

Mecklenburg County [† Paul Glass] 6 August 2017; accepted Category 2. Second Piedmont record since 2004 Review List.

Black-throated Gray Warbler (*Setophaga nigrescens*) One Adult Female/FY Male, private residence, James City County. [ph. Rob Bielawski, ph. Bill Williams, m. obs.] First reported by Brian Taber, 25 December 2017 – 2 January 2018; accepted Category 1 (eBird); <http://ebird.org/ebird/view/checklist/S41327652> ML79345561 ML79345721 ML79345751 ML79345801 <http://ebird.org/ebird/va/view/checklist/S41351406> ML79450801 ML79450861. Seventh Coastal Plain record.

Painted Bunting (*Passerina ciris*) One adult male, private residence, Prince William County. [ph., video, Julie Kensky] 5 January 2018 – 6 January 2018; accepted Category 1 (eBird); <http://ebird.org/ebird/va/view/checklist/S41670652>, ML80771061 ML80771111. Fourth Piedmont record since 2004 Review List.

RECORDS NOT ACCEPTED

Least Tern (*Sternula antillarum*): One individual, private location, Augusta County, 15 June 2017. Concern was expressed by reviewers regarding the distance and conditions under which the observation took place and the possibility of certain field marks perhaps being the result of incomplete or atypical molt of other species of terns.

Long-billed Curlew (*Numenius americanus*): One individual, Craney Island Disposal Area, Portsmouth, 24 August 2017. Although photos and expert commentary were helpful, the quality of the photos and certain details of the photos, such as a very short bill for even a hatch-year Long-billed Curlew, left room for doubt on this submission.

Magnificent Frigatebird (*Fregata magnificens*): One individual, Back Bay NWR (CSY06), Virginia Beach, 26 September 2017. While this submission clearly described a frigatebird, there was insufficient detail in the photos and description to rule out two other possible species, Great Frigatebird and Lesser Frigatebird.

Swallow-tailed Kite (*Elanoides forficatus*): One individual, McCormick's Mill, Augusta County, 5 May 2018. The provided description did not provide sufficient detail to rule out other species with similar morphology.

LITERATURE CITED

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Virginia-Washington DC Christmas Bird Counts: 2017-2018 Season

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Two Christmas Bird Counts were added to the Virginia-Washington DC region this year. Rappahannock was brand new to the roster, and Clifton Forge was resurrected after a 20-year hiatus. This brings the total number of active counts to 51. Five other winter bird counts were also conducted in the region, but are not included in this summary as they do not meet the requirements of Audubon-sponsored counts. [Editor's note: Additional information about the counts discussed here can be found on the National Audubon Society's Christmas Bird Count website at <http://netapp.audubon.org/cbcoobservation/>]

The new Rappahannock count is centered at the junction of state routes 627 and 626, about 2.5 miles south of Rose Hill in Rappahannock County. Even though coverage of the circle was very limited, and conducted all on foot, 32 observers, led by organizer/compiler Victoria Fortuna, did an admirable job in finding 58 species. Hopefully, coverage in the future will expand to include more of the count circle. It was gratifying to see the Clifton Forge count back in the line-up. The circle lies west of the Lexington count circle and encompasses parts of Bath, Alleghany, and Botetourt counties, along with a very small section of Rockbridge County. Running continuously from 1973 through 1996, observers in those years, led by compiler/organizer Dr. Allen LeHew, turned up some very interesting species, including Blue-winged Teal, Northern Shoveler, Canvasback, and one hummingbird sp., birds that are rarely found in that part of Virginia. The count is now compiled by Ed Haverlack, a long-time Virginia birder.

Weather leading up to the 2017-18 count season was reasonably mild in the region and birders were anticipating comfortable days in the field, but that was not to be. Quite a few counts experienced rainy, cloudy, and cold conditions. Only six counts registered temperatures above 50°. Last year more than 50% recorded temperatures above 50° F, several reporting temperatures as high as 70° F. This year's highest temperature recording was 63° F at Nokesville. Many observers were hampered by rain, and strong winds, especially in the eastern section of the region. There were several changes in the compiler roster: Jen Wright at Dismal Swamp replaced Laura Mae; William Boehn replaced Nancy Gruttman-Tyler at Newport News; Steven Hillburger replaced Odette James at Brooke, and Donna Finnegan replaced Michael Boatwright at Lake Anna. No species new to the region were found this year.

Nevertheless, birders found some unusual species and tallied several impressive all-time high counts.

Greater White-fronted Geese were found in various locations around the region, although none were spotted on the Coastal Plain. Augusta County birders chalked up 13 individuals, the largest flock ever recorded on a count. Other unusual occurrences of this species were three at Chatham, one at Warren, and five at Glade Spring, first sightings for all three sites. Waynesboro birders found their second count record of three individuals. In all, 26 White-fronteds on six counts far surpassed the previous high of nine set in 2016. Ross's Goose continues to appear in the region in good numbers. This year one bird at Little Creek was its first record; four were at Hopewell, where this species occur almost every year; one visited Northern Shenandoah Valley; and one was at Augusta County for that count's third record. Roanoke had its first record of a Cackling Goose. Augusta had 10, surpassing previous records there, and record highs were also set at Mathews County (five), Hopewell (23), and The Plains (12). Altogether, 63 individuals comprise the highest regional total, surpassing the previous record of 43 set in 2008.

Mute Swan numbers are creeping upwards again. Brooke birders found 29, Chancellorsville had 25, and seven other counts had a total of 21, bringing the overall total to 75, the most since 2007. Happily, Chincoteague has been successful in keeping this species at bay for 15 years or more.

The Trumpeter Swan is a far different story. A welcomed sight was the one that appeared on the Mathews County count, and Waynesboro observers also photographed three, first-time sightings for both counts. A couple other individuals appeared during the count season, but they were not in count circles or on count days. Nevertheless, these were stunning sights for many birders who rarely have the opportunity to see such rarities. Tundra Swans were present in higher numbers than usual. The regional total of more than 6,750 birds was the highest since 1998. Most showed up at their usual haunts on the Coastal Plain and in the Northern Virginia area. One individual each at Charlottesville and Blacksburg were nice finds for those counts. The 3,195 at Back Bay were the highest count there since 1980, and Fort Belvoir's tally of 1,432 individuals was the second highest number for that count.

Wood Duck numbers increased noticeably this year, especially in the mountain region where they were seen on 11 counts. On the Coastal Plain, Nansemond River and Williamsburg enjoyed record numbers with 21 and 43 respectively. Though their numbers do not begin to approach the totals of thousands that were routinely found in the late 1960s, this year's total of more than 900 Wood Ducks in 33 count circles added up to the most counted in 26 years. All three of the region's newest counts (Northumberland-Lancaster, Rappahannock, and Clifton Forge) contributed to that higher total. If it hadn't been for the 3000 Canvasbacks at Williamsburg, the total regional tally for this species would have been dismal. The only other count with any significant numbers was Fort Belvoir with 883. Hopefully, with the current attempts to restore health to the Chesapeake Bay, more Canvasbacks may again grace the shorelines of the states that border one of the world's greatest estuaries. Walkerton's 14 Redheads was an unusual find, and Augusta County broke its record high for the species with six individuals. As usual, Fort Belvoir surpassed all counts with 465, the third highest total for that count. A great gathering of Lesser Scaup (over 15,000) at Fort Belvoir helped augment rather lackluster numbers of this species found on other counts. No other circle comes close to the numbers of Lesser Scaup seen at Fort Belvoir every year.

A King Eider at Nassawaddox was a first for that count, and the only one recorded on any count for the past five years. The only Harlequin Ducks reported were two at Cape Charles. Even though Nassawaddox recorded a record high of 10 White-winged Scoters, this species continues to be present in very low numbers during the count period. From around 1951 through 1997 White-wings showed up on Southside Virginia and Eastern Shore counts by the hundreds, and even thousands sometimes, but since then, numbers have plummeted to double-digits almost every year. Black Scoter numbers dropped. Only 825 were found on eight counts, whereas they had been counted in the thousands the past five years.

Observers at Wachapreague, Nansemond River, Walkerton, Chancellorsville, Banister River, Chatham, and Lexington all saw record high numbers of Hooded Mergansers, contributing to the new regional total of nearly 5000 individuals. Record highs of 419 Buffleheads at Williamsburg, and four at Waynesboro were nice finds, but the 42 that appeared on the newly revived Clifton Forge count were especially noteworthy as that comprises a first for the count. Both Wachapreague and Nokesville had all-time high Ruddy Duck counts of 470 and 171, respectively.

There is still no good news concerning the Northern Bobwhite. Only five counts reported this species for a total of 56 birds. From 1966 thru 1989, bobwhite totals for the

Washington DC/Virginia region were in the thousands almost every year, with the all-time high of 2,119 attained in 1976. In the past 11 years, however, total numbers of bobwhites in the region have never risen above double digits. It has been a steady downhill slide, with this year's aggregate total of 25 birds found on only five of 52 counts. The Washington DC count mirrors those depressing totals. From 1959 through 1976, over 100 Northern Bobwhites were recorded almost every year. Starting in 1977, however, numbers began to decline, and from 2001 to the present, not a single bobwhite has been seen in that circle. Another depressing situation is that of the Ruffed Grouse. In 2017, that species reached the next to lowest number ever, with just one bird each at Big Flat Mountain, Tazewell, and Glade Spring. On the other end of the scale, Wild Turkeys continue to flourish, with a total of 875 individuals.

Red-throated Loons continue to increase along the East Coast and this year was no exception. Nassawaddox had a record 2,050 of the species. Remarkable numbers were also reported in other southeastern Virginia circles. Brown Pelican numbers were significantly lower this year, probably due to adverse weather conditions on the counts where this species is usually found. Still, it was surprising that birders saw only one pelican at Little Creek, whereas, in years past, this species has occurred in triple digit figures. One Double-crested Cormorant at Shenandoah-Luray was a first record for that count.

Only two American Bitterns appeared this year, one at Back Bay where they are present almost every year, and the other on the Newport News count. That count reported them almost every year in the 1970s, but the bird spotted this year was the first since 1995. Only two counts reported Snowy Egrets. Three were at Chincoteague, and six were spotted at Back Bay. Usually recorded in double digits, the cold, windy weather probably had a great deal to do with their absence. Little Blue Herons were also scarce. One at Chincoteague and one at Cape Charles were the only ones seen this year. On the other hand, Tricolored Herons were much more in evidence with three southeastern counts reporting a total of 53 birds. That is the highest statewide total since 2001. In the early 1970s, this species was much more plentiful, when up to 200 Tricoloreds were often reported. Cattle Egrets were completely absent on the 2016-17 counts, but 12 showed up at Back Bay this year. That is the most seen on Christmas counts since the early 1990s. Green Herons were absent except for one individual spotted during Count Week in the Northern Shenandoah Valley circle. Black-crowned Night-Herons made a good showing in the southeastern corner of the state. The only sighting away from the coast was of two birds at Waynesboro where they have been reported every year since 2010. Surprisingly,

none were seen on the Shenandoah-Luray count where they are usually found every year. After six years of triple-digit totals, Back Bay had only 79 White Ibises and Cape Charles one, making the state total of 80 a low number compared to the previous five years when numbers ranged from 155 to more than 700 individuals.

Washington DC, Williamsburg, and Chancellorsville all had record numbers of Black Vultures, while Wachapreague racked up an all-time high of 897 Turkey Vultures, almost doubling last year's total. Of the 13 Ospreys reported, the only unusual sighting was one at Central Loudoun, a first for that count. Usually Blackford chalks up the most Golden Eagles, but this year Tazewell took the prize when birders found three in that circle. None were seen on any of the Coastal Plain counts. Bald Eagle numbers continue to soar, breaking records everywhere. Washington DC's 53 individuals equaled their record high set in 2002, and Breaks Interstate Park had its first count-day record. A real surprise was a well-described Broad-winged Hawk reported by experienced birders on the Augusta count. Observers carefully noted all essential field marks. *[Editor's note: This report has not been reviewed by the state records committee or accepted by eBird reviewers.]* Manassas-Bull Run had its first sighting of a Rough-legged Hawk since 1993. Other circles where this species was found were Tazewell, where it occurs fairly regularly, Warren, and the usual stronghold of Shenandoah NP-Luray, where there were three this year.

Numbers of all rail species were down, probably due to weather and tides. The one unusual report was of a Sora at Washington's Birthplace. It was that count's second record. American Coot totals were also down considerably, compared to those of the past three years. Even Fort Belvoir birders experienced a dramatic drop in numbers, but birders on the resurrected Clifton Forge count tallied a single coot, their fourth record. Sandhill Cranes were back again this year. Gordonsville observers found three birds and Nassawaddox had its first record of two birds.

The 230 Black-bellied Plovers at Chincoteague were that count's highest number since 1994. From 1969 to 1986, this species gathered by the hundreds at the refuge, but in 1987 the count suddenly dropped to double digits, and there it has remained until this year. The all-time high for Chincoteague was attained in 1977 with a total of 1,479. Back Bay, Nansemond River, and Walkerton observers cornered the market on Killdeer. Back Bay's 639 individuals was an all-time high count there, and Nansemond River followed with 208 birds. Walkerton reported 149. The only Spotted Sandpipers reported were individual birds at Wachapreague and Little Creek. Sanderlings were scarce, but Dunlin were not.

Northumberland-Lancaster and Washington's Birthplace counts on the western side of the Bay helped add to the state total of almost 20,000 birds. American Woodcocks appeared on three counts that were rather unusual. One was at Danville, where woodcocks haven't been recorded since 2001; one at Gordonsville was that count's ninth record in its 42-year history; and one was present on the newly reestablished Clifton Forge count.

In the past few years, Banister River birders have been finding rather high numbers of Bonaparte's Gulls. This year was no exception as their tally of 325 broke the previous record of 256 birds set in 2012. In the unusual gull department, Little Creek had its first Black-legged Kittiwake in 11 years. Two Iceland Gulls were a first for Central Loudoun and one was in the Fort Belvoir circle during count week but not on count day. The only Glaucous Gull found was at Fort Belvoir.

Lexington birders found one Barn Owl, the first record there since 2005. Eleven Great Horned Owls were present on the Wachapreague count, equaling their all-time high set in 1982. Ten Barred Owls were found on the Washington's Birthplace count, doubling their previous record high. One Long-eared Owl was seen at Wachapreague, the only record there since 1998. Short-eared Owl numbers were considerably higher than usual. Augusta County had a record-high of nine; The Plains also had a record high of six. These along with reports from four other circles added up to 27 individuals, the highest state total since 1990.

An unprecedented five Ruby-throated Hummingbirds appeared on five different counts. Cape Charles, Little Creek and Nansemond River had reported sightings of this species in previous years, but the individuals at Williamsburg and Waynesboro represented a first-time occurrence for those counts. Surprisingly, no other hummingbirds were detected except for an individual at Nansemond River that was listed as "hummingbird sp."

Yellow-bellied Sapsuckers were present on every count, resulting in the highest total ever for that species. On the other hand, Northern Flickers have shown little fluctuation in numbers over the years. The average regional total for the past 13 years has been 2,800 birds. Another woodpecker species that has been found in rather stable numbers is the Pileated Woodpecker. Regional totals have dropped below 1,000 only five times in the last 25 years. For the second year in a row, a Red-cockaded Woodpecker was recorded during the Dismal Swamp count. Biologists are monitoring birds that were transplanted into the Swamp about three years ago.

Peregrine Falcons topped all expectations when a record 41 individuals were recorded on 17 counts. The second

highest total, 32, was attained in 2013. For Lexington, Waynesboro, and Chancellorsville, the appearance of a Peregrine on count day was a first.

Although it wasn't the highest total ever, this year's 400+ Eastern Phoebes were the second highest number recorded for Virginia. The number was augmented by the inexplicable total of 87 individuals recorded on the Walkerton count. Walkerton seems to have a strange attraction for flycatchers. Along with a Vermillion Flycatcher in 2013, and the extremely high count of Eastern Phoebes this year, birders also found, and photographed, a Say's Phoebe. The only other sightings of this species on Christmas counts in this region were one seen at Little Creek in 1956 and another on the Blackford count in 2015.

On the other side of the coin is the dismal total of seven Loggerhead Shrikes region-wide. This marks the third time the Loggerhead has been tallied in single digits on Virginia Christmas counts since 1946! It's hard to imagine birders in 1974 finding 170 loggerheads on 25 of the 33 counts conducted that year. For the third year in a row, Northern Shrikes were around, one at Manassas-Bull Run and another on the Washington's Birthplace count. Good photographs were obtained of both birds. Northern Shrikes have scantily dotted the Christmas Count map over the years. The first record was one individual at Lynchburg in 1950; then one appeared at Danville in 1970; a count-week bird was verified in the Shenandoah NP-Luray circle in 1975; one was recorded at Calmes Neck in 1997; one was at Cape Charles in 2004; in 2006 an individual was photographed on the Rockingham County count; and, as mentioned above, there were two sightings this year. Interestingly enough, there is a report on the books of a Northern Shrike recorded on a count conducted at Culpeper in 1915. No written details are available to allow assessment of its authenticity.

Blue-headed Vireos were spotted on three counts around the Chesapeake Bay and on three other counts further inland. The one in Rockingham County was their third record. Previous sightings there were in 1977 and 1998.

This year the record for a first-time occurrence of Common Ravens goes to Hopewell, where two birds were observed. Three other counts had record highs: 8 for Fort Belvoir; 4 for Chancellorsville, and 21 for Lynchburg. This year's total count equals the all-time high of 390 individuals set in 2011.

Fort Belvoir's 692 Carolina Chickadees were the lowest for that count since 1977. Black-capped Chickadee numbers were about average, with a nice count of 16 at Clifton Forge for the highest count of the season. Roanoke's 12 were a high count there. This didn't seem to be the year

for a Red-breasted Nuthatch invasion. Only 30 were seen on 13 counts, the lowest regional total since 1984. Except for six at Mathews and one at Williamsburg, the Coastal Plain region seemed to be completely devoid of Red-breasteds. Another Brown-headed Nuthatch showed up at Blacksburg this year, the sixth occurrence in 12 years.

The tally of Sedge Wrens sinks lower as the years go by. This year only 11 were spotted. The same can be said about the Marsh Wren, with a total count of 22 region-wide. The Carolina Wren is a different story. From year to year, its total count hovers between 4000 and 6000 birds annually. Unlike other wrens, numbers of this species have slowly increased over the past two decades.

The only Blue-gray Gnatcatcher recorded was one individual photographed on the Washington DC count. A Swainson's Thrush was identified at Cape Charles. The bird was observed by several experienced birders and a good photograph was obtained. This is the first verified sighting since 1982. Waynesboro was the only count that missed Hermit Thrush. That is unusual because Waynesboro birders have recorded Hermit Thrushes every year that count has been conducted except 1983. Another species of thrush that was much in evidence was the American Robin. Several counts around the region chalked up numbers in the thousands.

The most Gray Catbirds (274) were seen in the region since 2002. Brown Thrasher numbers were also much higher than usual. The total of 302 individuals broke the previous regional high of 280 recorded in 2010. Nansemond River, Central Loudoun and Charlottesville all registered record-breaking highs.

Washington's Birthplace was the only count reporting Lapland Longspurs, with three there this year. Only four counts reported Snow Buntings.

There are always a few unusual warblers around, and this year was no exception. Two Black-and-white Warblers were recorded, one at Newport News for the second year in a row, and one at Hopewell, its third record in four years. Orange-crowned Warblers were more common, with nine counts racking up 45 individuals, one more than last year's (previous) record high. Both Little Creek (10) and Cape Charles (11) found record high totals. A Nashville Warbler was at Cape Charles for the second year in a row. A Yellow Warbler was at Fort Belvoir for their first record. Palm Warblers were downright abundant. Both Wachapreague and Cape Charles counted over 100 birds, and birders on several other counts posted high numbers. A Yellow-throated Warbler was at Little Creek, its third record of that species, and Chincoteague birders found a Yellow-breasted Chat for the second year in a row.

Nelson's Sparrows were scarce. Only five were found, all at Chincoteague. No Saltmarsh Sparrows were found anywhere. Seaside Sparrow numbers were also down, with only four found at Cape Charles. American Tree Sparrows continue to fade from the region. This year only 27 were reported, the lowest regional total since 1932. An unprecedented six Clay-colored Sparrows showed up this year. Although no photographs were obtained, three well-described birds comprised Charlottesville's first count record. Other single individuals were present at Walkerton, Fort Belvoir and Calmes Neck. In the past several years, this species has been turning up on counts more frequently. Washington DC had its first Lark Sparrow record, the only one in the region this year. A good photograph was obtained. The first Harris's Sparrow seen on any DC/VA count in 14 years was photographed on the Shenandoah NP-Luray count. There are only three other count records in the region. Vesper Sparrows were present in higher-than-usual numbers, thanks to the 21 individuals at Cape Charles and one other at Chincoteague. Single Lincoln's Sparrows were spotted at Fort Belvoir, The Plains, and Waynesboro. Chincoteague birders photographed a banded Savannah (Ipswich) Sparrow.

A Western Tanager arrived at the same feeder in Williamsburg for the seventh year in a row, and another Western Tanager appeared during count week in the Little Creek circle. Painted Buntings were back again this year, one at Back Bay for its third record, and one at Williamsburg for their second record. Back Bay had a high count of eight Baltimore Orioles, seven were at Williamsburg, and Lynchburg chalked up its second record of this species. The third occurrence of a Rusty Blackbird at Nokesville was a nice sighting for that count.

Fewer and fewer Purple Finches appear in Virginia as the years go by. This year's 86 individuals is the fourth-lowest count in the past decade. Pine Siskin numbers wax and wane, but a downward trend of this species seems evident. This year only 91 birds were seen. The Piedmont was completely devoid of siskins.

House Sparrow populations seem to have stabilized somewhat with regional totals hovering between 2000 and 5000 birds each year. In the more rural American landscape of past decades, the House Sparrow's favorite habitats were farms, feedlots, and other undeveloped country haunts, where they could be found in abundance. Now, however, their favorite places appear to be the parking lots of fast-food joints, department stores, and in the rafters of urban home improvement centers.

The completion of this summary marks the author's final report as editor of the Virginia-Washington DC region

Christmas Bird Counts report. In 1990, I was immensely honored to be asked to assume the editorship from Claudia Wilds. It was a daunting task to take up a job that was so ably accomplished by a world-renowned birder, researcher, author, photographer, and world traveler. With her guiding hand and gentle encouragement, I slowly learned the ropes and began to understand the complexities of the winter bird populations in the region.

These 27 years have been a fascinating and rewarding experience, and have, honestly, taken up quite a chunk of my life each year. Some moments have been long, hard, frustrating, and grueling, but the rewards, the contact with so many people, and the opportunity to experience the changes and advances in the world of birding have enriched my life beyond measure. I would like to thank my anonymous "vetting committee" of three who for the past 10 years have helped me make some very tough decisions involving rarities and other situations involving the editing process.

It has been a hard job, but the rewards have been many and I shall always be grateful that I had the opportunity to be involved in the very heart of Virginia-Washington DC Audubon Christmas Bird Counts.

Count Conditions 2017. Page 1 of 3.

	Count date	Number of observers	Minimum No. of parties	Maximum No. of parties	No. of feeder observers	Hours at feeders	Hours owling	Miles owling	Hours on foot	Hours by car
1. Chincoteague	Dec 29	45	12	18	...	...	2.00	5.00	52.00	56.00
2. Wachapreague	Dec 16	22	1	10	1	4	2.00	1.00	44.00	83.00
3. Nassawadox	Dec 17	27	8	11	...	...	...	...	56.00	21.00
4. Cape Charles	Dec 30	35	8	8	...	...	0.25	0.00	99.25	24.50
5. Chesapeake Bay	Dec 26	3	1	1	...	...	...	...	9.00	0.30
6. Little Creek	Dec 31	24	13	13	4	7.50	0.75	0.00	52.60	37.20
7. Back Bay	Dec 29	20	10	14	...	...	2.00	4.00	67.00	12.00
8. Nansemond River	Jan 02	23	12	12	1	1.00	3.30	12.50	54.10	40.80
9. Dismal Swamp	Dec 15	17	7	7	...	...	1.00	5.00	48.75	2.00
10. Newport News	Dec 16	46	13	13	4	17.50	...	...	57.60	29.70
11. Mathews	Dec 31	43	17	17	2	11.00	3.25	0.00	41.75	70.50
12. Williamsburg	Dec 17	71	14	21	60	103.00	5.00	23.00	93.00	35.00
13. Hopewell	Dec 17	26	12	12	...	...	1.75	19.00	67.75	16.50
14. Walkerton	Dec 31	22	3	9	...	...	12.25	33.80	34.50	35.00
15. Northumberland-Lancaster	Dec 19	39	9	12	...	...	4.10	0.00	34.50	60.10
16. Washington's Birthplace	Dec 17	24	5	7	...	...	4.00	21.00	38.00	20.25
17. Brooke	Dec 14	31	10	17	...	...	...	...	66.11	41.59
18. Fort Belvoir	Dec 31	152	65	66	12	4.81	16.12	42.00	279.40	60.35
19. Central Loudon	Dec 28	94	22	28	3	1.50	5.25	12.70	107.40	57.00
20. The Plains	Dec 17	53	11	16	...	...	3.50	23.25	80.50	40.50
21. Manassas-Bull Run	Dec 17	116	35	36	1	3.00	4.00	0.00	145.00	35.00
22. Nokesville	Dec 23	37	10	12	...	...	...	...	34.00	23.00
23. Chancellorsville	Dec 30	30	9	9	1	0.50	0.75	3.00	37.80	16.50
24. Lake Anna	Dec 30	13	4	4	1	2.00	...	...	9.00	10.00
25. Gordonsville	Dec 17	24	6	7	5	2.00	0.50	0.25	18.00	33.00
26. Charlottesville	Dec 17	41	16	17	1	7.00	1.00	10.00	88.00	27.00
27. Warren	Jan 01	17	9	17	...	...	...	...	38.75	15.00
28. Darlington Heights	Jan 07	18	5	5	2	1.00	4.00	20.00	20.80	24.00
29. Banister River W.M.A	Dec 17	9	6	6	...	...	6.00	19.50	35.50	12.50
30. Lynchburg	Dec 16	36	13	13	4	12.50	6.50	19.65	35.25	36.50
31. Chatham	Dec 27	3	2	2	1	1.00	0.50	0.00	2.00	7.50
32. Danville	Dec 30	12	4	8	3	2.00	2.20	31.00	6.50	22.00
33. Calmes Neck	Dec 23	45	15	18	4	6.00	3.00	15.00	49.50	70.50
34. Northern Shenandoah Valley	Dec 16	57	10	18	1	5.00	9.92	42.70	60.50	82.50
35. Rappahannock	Dec 16	32	4	4	...	...	...	...	16.00	...
36. Shenandoah N.P.-Luray	Dec 17	26	6	8	3	12.00	3.25	7.50	29.75	34.75
37. Big Flat Mountain	Dec 31	6	3	3	...	...	...	...	15.00	1.00
38. Rockingham County	Dec 16	37	3	12	2	1.25	1.50	18.00	17.75	48.75
39. Augusta County	Dec 17	22	9	9	5	5.00	5.00	20.00	3.00	62.00
40. Waynesboro	Dec 30	31	12	12	4	3.00	1.75	14.00	14.50	47.25
41. Lexington	Dec 17	43	2	21	5	3.50	1.00	13.00	42.50	36.00
42. Peaks of Otter	Dec 19	11	5	5	...	...	...	...	5.00	10.00
43. Clifton Forge	Dec 16	14	10	10	2	6.50	1.00	1.50	0.00	32.00
44. Fincastle	Dec 17	29	11	11	...	...	...	...	30.00	27.00
45. Roanoke	Dec 16	17	1	9	...	...	...	...	24.00	18.00
46. Blacksburg	Dec 16	50	19	22	10	25.00	5.00	17.00	66.50	46.00
47. Giles County	Dec 30	23	5	6	1	4.00	1.00	1.00	16.00	22.00
48. Tazewell	Dec 28	5	3	3	...	...	...	...	3.00	6.00
49. Mt. Rogers-White Top Mt.	Dec 30	12	4	9	...	...	...	...	2.25	13.00
50. Glade Spring	Dec 27	22	7	7	4	1.00	3.75	0.00	17.50	47.00
51. Blackford	Dec 30	7	4	4	...	...	...	...	3.00	5.00
52. Bristol	Dec 31	13	5	5	1	3.00	3.00	0.00	24.00	20.00
53. Buchanan	Dec 23	7	7	7	...	...	1.00	1.00	3.00	38.00
54. Breaks Interstate Park	Dec 16	9	5	5	2	2.50	1.50	0.00	20.00	35.00
55. Wise County	Dec 16	13	8	8	2	8.00	1.50	2.00	31.00	25.50
Totals:	...	1,704	530	664	152	267.06	135.14	458.35	2,347.56	1,732.54

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	Hours by golf cart	Hours by motorboat	Hours by non-motorized boat	Total party hours	Miles on foot	Miles by car	Miles by golf cart	Miles by motorboat	Miles by non-motorized boat	Total party miles
1. Chincoteague	108.00	44.00	204.00	...	...	...	248.00
2. Wachapreague	...	6.00	...	133.00	38.00	486.50	...	12.00	...	536.50
3. Nassawadox	...	3.00	3.25	83.25	25.00	130.00	...	20.00	5.00	180.00
4. Cape Charles	123.75	60.50	163.50	...	...	...	224.00
5. Chesapeake Bay	9.30	0.30	...	...	...	...	0.30
6. Little Creek	89.80	28.00	226.50	...	...	...	254.50
7. Back Bay	79.00	33.00	285.00	...	...	...	318.00
8. Nansemond River	...	4.00	...	98.90	26.10	336.20	...	13.50	...	375.80
9. Dismal Swamp	50.75	42.20	102.25	...	...	...	144.45
10. Newport News	87.30	34.60	213.00	...	...	...	247.60
11. Mathews	112.25	28.50	402.00	...	...	...	430.50
12. Williamsburg	1.00	129.00	80.00	238.00	...	...	2.00	320.00
13. Hopewell	...	1.00	...	85.25	29.75	89.50	...	1.00	...	120.25
14. Walkerton	69.50	33.00	422.50	...	...	...	455.50
15. Northumberland-Lancaster	2.50	...	...	97.10	27.60	310.40	7.30	...	...	345.30
16. Washington's Birthplace	58.25	20.50	178.00	...	...	...	198.50
17. Brooke	107.70	47.20	185.00	...	...	...	232.20
18. Fort Belvoir	339.75	210.80	271.50	...	...	...	482.30
19. Central Loudon	164.40	88.00	479.40	...	...	...	567.40
20. The Plains	121.00	66.00	366.60	...	...	...	432.60
21. Manassas-Bull Run	180.00	113.00	294.50	...	...	...	407.50
22. Nokesville	57.00	28.00	198.00	...	...	...	226.00
23. Chancellorsville	54.30	53.00	238.50	...	...	...	291.50
24. Lake Anna	19.00	5.00	75.00	...	...	...	80.00
25. Gordonsville	51.00	13.85	406.00	...	...	...	419.85
26. Charlottesville	115.00	63.00	133.00	...	...	...	196.00
27. Warren	53.75	32.50	170.00	...	...	...	202.50
28. Darlington Heights	44.80	9.00	190.00	...	...	...	199.00
29. Banister River W.M.A	48.00	19.00	128.50	...	...	...	147.50
30. Lynchburg	71.75	24.65	261.15	...	...	...	285.80
31. Chatham	9.50	1.50	125.00	...	...	...	126.50
32. Danville	28.50	9.00	201.00	...	...	...	210.00
33. Calmes Neck	120.00	49.00	561.00	...	...	...	610.00
34. Northern Shenandoah Valley	5.00	148.00	47.60	541.40	...	...	4.00	593.00
35. Rappahannock	16.00	16.00	...	...	...	...	16.00
36. Shenandoah N.P.-Luray	64.50	31.50	243.00	...	...	...	274.50
37. Big Flat Mountain	16.00	23.80	2.00	...	...	...	25.80
38. Rockingham County	66.50	17.50	387.50	...	...	...	405.00
39. Augusta County	65.00	9.00	478.00	...	...	...	487.00
40. Waynesboro	61.75	11.50	333.00	...	...	...	344.50
41. Lexington	78.50	33.50	279.00	...	...	...	312.50
42. Peaks of Otter	15.00	4.00	18.00	...	...	...	22.00
43. Clifton Forge	32.00	...	223.50	...	...	...	223.50
44. Fincastle	57.00	11.00	144.00	...	...	...	155.00
45. Roanoke	42.00	14.00	158.00	...	...	...	172.00
46. Blacksburg	112.50	72.00	272.60	...	...	...	344.60
47. Giles County	38.00	12.00	231.00	...	...	...	243.00
48. Tazewell	9.00	8.00	165.00	...	...	...	173.00
49. Mt. Rogers-White Top Mt.	15.25	5.05	142.00	...	...	...	147.05
50. Glade Spring	64.50	13.50	449.50	...	...	...	463.00
51. Blackford	8.00	2.75	188.30	...	...	...	191.05
52. Bristol	44.00	10.00	339.00	...	...	...	349.00
53. Buchanan	41.00	4.00	22.00	...	...	...	26.00
54. Breaks Interstate Park	55.00	15.00	247.00	...	...	...	262.00
55. Wise County	56.50	24.50	166.50	191.00
Totals:	2.50	14.00	9.25	4,105.85	1,770.00	13,102.00	7.00	47.00	11.00	14,936.35

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	Greater White-fronted Goose	Snow Goose	Ross's Goose	Brant	Cackling Goose	Canada Goose	Mute Swan	Trumpeter Swan	Tundra Swan	Wood Duck
1. Chincoteague	...	7451	...	35	2	1605	...	...	238	7
2. Wachapreague	...	3171	...	334	1	6165	...	...	7	24
3. Nassawadox	2400	1	1134	...	...	45	6
4. Cape Charles	...	4120	...	837	...	2060	...	...	83	15
5. Chesapeake Bay
6. Little Creek	1	...	...	902	...	...	14	29
7. Back Bay	...	986	...	...	2	2767	1	...	3195	15
8. Nansemond River	...	1	...	...	...	3887	...	...	8	21
9. Dismal Swamp	...	10	...	...	...	313	...	...	394	62
10. Newport News	16	...	586	...	...	...	...
11. Mathews	5	1396	...	1	237	...
12. Williamsburg	1	3370	7	...	81	43
13. Hopewell	...	3112	4	...	23	20734	...	...	3	538
14. Walkerton	...	4	...	...	...	7887	...	...	124	38
15. Northumberland-Lancaster	2062	...	...	95	8
16. Washington's Birthplace	...	2	...	...	2	13116	...	...	220	8
17. Brooke	...	1	...	...	...	1610	29	...	528	5
18. Fort Belvoir	1	13008	...	...	1432	6
19. Central Loudon	1	3	CW	...	...	11831	3	...	21	2
20. The Plains	12	8502	2	...	26	7
21. Manassas-Bull Run	3635	2	...	1	3
22. Nokesville	2167	...	...	...	6
23. Chancellorsville	1760	25	...	...	3
24. Lake Anna	165	...	...	...	...
25. Gordonsville	2772	...	...	...	8
26. Charlottesville	706	...	...	1	...
27. Warren	1	...	...	...	...	573	1	...	...	3
28. Darlington Heights	551	...	...	...	...
29. Banister River W.M.A	331	...	...	...	21
30. Lynchburg	993	...	...	...	...
31. Chatham	3	4	...	...	...	220	...	...	...	...
32. Danville	427	...	...	...	...
33. Calmes Neck	1	3831	...	...	2	2
34. Northern Shenandoah Valley	...	1	1	...	...	1986	...	...	...	13
35. Rappahannock	169	...	...	...	1
36. Shenandoah N.P.-Luray	...	1	...	...	...	355	...	...	...	1
37. Big Flat Mountain	6	...	...	...	...
38. Rockingham County	499	5	...	...	...	...
39. Augusta County	13	CW	1	...	10	797	...	...	...	...
40. Waynesboro	3	1	...	...	1	1496	...	1	...	...
41. Lexington	352	...	...	...	...
42. Peaks of Otter	1	...	...	...	...
43. Clifton Forge	336	...	...	...	8
44. Fincastle	289	...	...	...	...
45. Roanoke	1	228	...	...	...	...
46. Blacksburg	601	...	...	1	2
47. Giles County	347	...	2	...	...
48. Tazewell	...	2	...	...	...	309	...	...	...	2
49. Mt. Rogers-White Top Mt.
50. Glade Spring	5	...	...	...	...	352	...	...	...	1
51. Blackford	252	...	...	...	1
52. Bristol	...	6	6	...	...	568	...	...	11	1
53. Buchanan	1
54. Breaks Interstate Park	53
55. Wise County
Totals:	26	18876	13	3622	63	130062	75	4	6767	911

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	Gadwall	Eurasian Wigeon	American Wigeon	American Black Duck	Mallard	American Black Duck x Mallard (hybrid)	Blue-winged Teal	Northern Shoveler	Northern Pintail	Green-winged Teal (American)
1. Chincoteague	556	5	168	2616	744	...	...	409	374	33
2. Wachapreague	164	...	...	395	151	...	...	...	...	59
3. Nassawadox	73	...	...	268	117	2	...	...	...	...
4. Cape Charles	507	1	273	496	313	9	1	29	31	216
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	166	...	128	21	515	...	...	73	4	52
7. Back Bay	587	...	29	679	1080	...	9	24	41	60
8. Nansemond River	179	1	151	124	296	...	...	398	3	20
9. Dismal Swamp	...	...	...	9	2	...	...	...	...	...
10. Newport News	129	...	34	15	458	...	...	8	...	...
11. Mathews	...	...	...	15	52	...	...	...	...	...
12. Williamsburg	347	...	14	19	660	...	...	12	15	67
13. Hopewell	534	...	31	65	354	...	1	167	9	415
14. Walkerton	194	...	17	344	1372	2	...	38	288	28
15. Northumberland-Lancaster	6	...	8	4	136	...	...	2	2	...
16. Washington's Birthplace	228	...	...	192	964	...	...	2	3	120
17. Brooke	1583	...	38	47	875	...	...	15	7	3
18. Fort Belvoir	2254	1	138	1254	4280	...	...	177	383	10
19. Central Loudon	35	...	27	84	545	...	CW	2	...	14
20. The Plains	89	...	95	119	466	...	...	...	...	41
21. Manassas-Bull Run	50	...	...	2	181	...	...	2	...	34
22. Nokesville	49	...	2	18	377	...	...	11	1	...
23. Chancellorsville	...	...	...	9	261	...	...	...	...	2
24. Lake Anna	...	...	...	...	51	...	...	...	...	...
25. Gordonsville	4	...	...	6	122	...	...	3	...	7
26. Charlottesville	...	...	...	2	49	...	...	...	...	...
27. Warren	...	...	...	12	57	...	...	...	...	...
28. Darlington Heights	...	...	...	...	...	...	...	...	...	...
29. Banister River W.M.A	...	...	...	...	36	...	...	1	...	...
30. Lynchburg	10	...	4	14	181	...	...	...	...	...
31. Chatham	...	...	...	...	4	...	...	...	...	...
32. Danville	8	...	...	...	72	...	...	...	1	...
33. Calmes Neck	...	...	...	32	140	...	...	4	...	4
34. Northern Shenandoah Valley	16	...	2	20	363	...	...	4	6	21
35. Rappahannock	3	...	...	17	63	...	...	...	...	...
36. Shenandoah N.P.-Luray	8	...	...	45	264	...	...	1	...	...
37. Big Flat Mountain	...	...	...	...	...	...	...	...	...	...
38. Rockingham County	3	...	1	...	295	...	...	12	1	...
39. Augusta County	166	...	2	16	325	...	...	...	2	4
40. Waynesboro	46	...	16	9	198	...	...	3	12	5
41. Lexington	...	...	58	24	207	...	...	1	...	10
42. Peaks of Otter	...	...	...	...	...	...	...	...	...	...
43. Clifton Forge	...	...	...	2	...	...	...	...	...	...
44. Fincastle	85	...	...	1	89	...	...	...	...	28
45. Roanoke	77	...	...	...	84	...	...	...	...	5
46. Blacksburg	2	...	8	15	345	...	...	CW	...	5
47. Giles County	2	...	1	12	192	...	...	...	...	1
48. Tazewell	5	...	...	2	59	...	...	...	...	21
49. Mt. Rogers-White Top Mt.	...	...	...	...	44	...	...	...	...	...
50. Glade Spring	51	...	...	...	244	...	...	...	...	...
51. Blackford	...	...	...	37	35	...	...	...	...	...
52. Bristol	60	...	56	...	259	...	...	1	4	8
53. Buchanan	...	...	...	...	4	...	...	...	...	...
54. Breaks Interstate Park	23
55. Wise County	13
Totals:	8276	8	1301	7061	18017	13	11	1399	1187	1293

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	dabbling duck sp. (Anas sp.)	Canvasback	Redhead	Ring-necked Duck	Greater Scaup	Lesser Scaup	scaup sp.	King Eider	Harlequin Duck	Surf Scoter
1. Chincoteague	4	...	...	37	...	...	1234
2. Wachapreague	45	...	...	...	...	...	167
3. Nassawadox	14	...	...	...	1	...	155
4. Cape Charles	...	1	5	116	8	20	...	...	2	584
5. Chesapeake Bay	2	...	...	1	988
6. Little Creek	2	20	1	4	4	...	...	72
7. Back Bay	...	2	32	16	1	3	...	...	...	54
8. Nansemond River	...	348	28	207	1	10	15	...	...	...
9. Dismal Swamp	36	...	...	...	...
10. Newport News	5	157	1	...	...	...	...	248
11. Mathews	1	...	...	...	...	6	...	...	...	11
12. Williamsburg	...	3000	...	493	...	5	...	...	...	...
13. Hopewell	...	8	1	913	...	30	...	...	...	...
14. Walkerton	14	515	...	5	...	...	...	...
15. Northumberland-Lancaster	...	2	...	...	...	55	...	...	...	52
16. Washington's Birthplace	...	17	...	22	...	894	...	...	...	489
17. Brooke	...	75	21	61	...	15	...	...	...	...
18. Fort Belvoir	...	883	465	1227	18	15114	21	...	...	...
19. Central Loudon	5	146	...	7	...	...	...	...
20. The Plains	...	3	12	494	...	32	...	...	...	...
21. Manassas-Bull Run	26	...	...	...	...	...	...
22. Nokesville	6	...	...	...	...	...	...
23. Chancellorsville	306	...	24	...	...	...	...
24. Lake Anna	1	...	6	...	...	...	...
25. Gordonsville	20	...	...	...	...	...	...
26. Charlottesville	2	...	...	...	...	...	...
27. Warren	2	20	...	...	...	...	...	...
28. Darlington Heights
29. Banister River W.M.A
30. Lynchburg	71	...	...	...	...	...	...
31. Chatham
32. Danville	31	...	...	...	...	...	...
33. Calmes Neck	138	...	...	...	...	...	...
34. Northern Shenandoah Valley	4	...	CW	...	...	...	CW
35. Rappahannock	153	...	...	...	...	...	...
36. Shenandoah N.P.-Luray	CW
37. Big Flat Mountain
38. Rockingham County	3	...	...	1	...	...	...	...
39. Augusta County	6	30	...	2	...	...	...	...
40. Waynesboro	7	40	...	6	...	...	...	...
41. Lexington	4	...	...	...	...	...	...
42. Peaks of Otter
43. Clifton Forge
44. Fincastle	31	...	1	...	...	...	...
45. Roanoke	1	...	...	...	...	...	...
46. Blacksburg	CW	...	...	...	...	...	...
47. Giles County	2	...	...	...	...	...	...
48. Tazewell
49. Mt. Rogers-White Top Mt.
50. Glade Spring	1	...	...	...	...	...	...	...
51. Blackford
52. Bristol	6	50	...	1	...	...	...	1
53. Buchanan
54. Breaks Interstate Park
55. Wise County
Totals:	1 4339	615	5386	30	16279	77	1	3	4055	

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	White-winged Scoter	Black Scoter	scoter sp.	Long-tailed Duck	Bufflehead	Common Goldeneye	Hooded Merganser	Common Merganser	Red-breasted Merganser	merganser sp.
1. Chincoteague	...	225	126	47	1639	6	163	...	200	...
2. Wachapreague	...	4	1	22	2431	5	470	...	22	...
3. Nassawadox	10	120	365	6	743	...	167	...	23	...
4. Cape Charles	17	92	444	59	1715	18	361	...	444	...
5. Chesapeake Bay	5	263	8245	10	9	...	...	...	367	...
6. Little Creek	3	86	83	...	484	1	440	3	614	...
7. Back Bay	12	20	89	1	33	4	50	3	141	...
8. Nansemond River	666	5	453	6	91	...
9. Dismal Swamp	8	...	14	1	...	...
10. Newport News	...	11	...	8	758	6	216	...	10	...
11. Mathews	1224	25	99	7	118	...
12. Williamsburg	419	7	286	1	11	...
13. Hopewell	458	...	94	24	1	...
14. Walkerton	73	3	117	18	14	...
15. Northumberland-Lancaster	...	4	...	4	786	2	90	...	11	...
16. Washington's Birthplace	8	327	40	66	25	32	...
17. Brooke	188	2	108	12	11	...
18. Fort Belvoir	1	430	4	447	1066	42	...
19. Central Loudon	45	3	51	138	14	...
20. The Plains	137	...	344	37	...	...
21. Manassas-Bull Run	2	1	144	40	...	...
22. Nokesville	7	...	63	...	...	...
23. Chancellorsville	120	...	82	21	...	...
24. Lake Anna	31	...	12	...	...	...
25. Gordonsville	18	...	130	...	...	...
26. Charlottesville	11	...	...	...
27. Warren	41	...	...	...
28. Darlington Heights
29. Banister River W.M.A	36	...	90	4	...	...
30. Lynchburg	12	...	58	7	...	...
31. Chatham	17	...	...	...
32. Danville	25	...	...	...
33. Calmes Neck	25	...	16	76	...	...
34. Northern Shenandoah Valley	4	...	4	36	4	...
35. Rappahannock
36. Shenandoah N.P.-Luray	10	11	...	...
37. Big Flat Mountain
38. Rockingham County	1	...	...	1	...	...	...
39. Augusta County	21	...	...	...
40. Waynesboro	4	...	8	...	...	...
41. Lexington	1	262	172	...	...
42. Peaks of Otter
43. Clifton Forge	42	...	1	...	...	30
44. Fincastle	6	...	12	2	...	...
45. Roanoke	6	...	...	...
46. Blacksburg	18	...	48	...	...	...
47. Giles County	4	...	42	48	...	...
48. Tazewell
49. Mt. Rogers-White Top Mt.
50. Glade Spring	10	1	...	...
51. Blackford
52. Bristol	4	...	...	1	127	1	46	3	...	...
53. Buchanan
54. Breaks Interstate Park
55. Wise County
Totals:	51	825	9353	168	13029	134	5196	1762	2170	30

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	Ruddy Duck	duck sp.	Northern Bobwhite	Ruffed Grouse	Wild Turkey	Red-throated Loon	Common Loon	loon sp.	Pied-billed Grebe	Horned Grebe
1. Chincoteague	3	665	...	...	5	88	93	...	8	43
2. Wachapreague	490	...	...	...	...	9	19	...	6	38
3. Nassawadox	50	...	1	...	...	2050	52	...	5	41
4. Cape Charles	198	...	...	...	6	249	80	...	14	59
5. Chesapeake Bay	...	...	...	...	...	143	17	...	...	1
6. Little Creek	116	...	...	...	...	24	15	...	48	1
7. Back Bay	32	...	...	...	18	207	30	30	80	...
8. Nansemond River	2320	...	...	...	51	27	4	...	46	259
9. Dismal Swamp	20	...	...	...	...	...	...	...	6	...
10. Newport News	1262	...	...	...	11	3	25	...	29	39
11. Mathews	635	...	...	...	21	2	30	...	2	3
12. Williamsburg	2077	...	...	...	16	9	20	...	40	6
13. Hopewell	205	...	...	...	...	...	2	...	19	...
14. Walkerton	32	...	21	...	8	...	...	...	8	...
15. Northumberland-Lancaster	1770	...	...	...	20	...	21	...	2	14
16. Washington's Birthplace	1607	...	15	...	1	1	10	...	2	3
17. Brooke	451	...	...	...	35	...	2	...	34	4
18. Fort Belvoir	765	...	...	...	51	...	3	...	89	9
19. Central Loudon	8	...	...	...	27	...	...	...	2	...
20. The Plains	13	...	...	...	43	...	1	...	14	1
21. Manassas-Bull Run	...	...	...	...	12	...	...	...	6	...
22. Nokesville	171	...	...	...	50	...	3	...	12	2
23. Chancellorsville	153	...	...	...	...	...	...	...	26	1
24. Lake Anna	...	...	...	...	CW	...	11	...	8	7
25. Gordonsville	29	...	...	...	27	...	...	...	2	...
26. Charlottesville	1	...	...	...	11	...	...	...	17	...
27. Warren	...	...	...	...	6	...	...	...	2	...
28. Darlington Heights	...	...	12	...	19	...	...	...	...	...
29. Banister River W.M.A	...	30	...	...	7	...	...	...	...	...
30. Lynchburg	15	...	...	...	10	...	...	...	32	...
31. Chatham	...	...	...	...	10	...	...	...	1	...
32. Danville	...	...	...	...	...	...	...	...	4	...
33. Calmes Neck	2	...	...	...	105	...	...	...	5	...
34. Northern Shenandoah Valley	7	...	...	...	48	...	3	...	4	CW
35. Rappahannock	...	...	...	...	...	...	...	...	...	...
36. Shenandoah N.P.-Luray	6	...	...	CW	...	...	...	...	2	CW
37. Big Flat Mountain	...	...	...	1	...	...	...	...	...	...
38. Rockingham County	...	...	...	...	...	...	...	...	3	...
39. Augusta County	7	...	...	...	CW	...	...	...	1	...
40. Waynesboro	3	...	...	...	...	...	...	...	1	...
41. Lexington	1	...	...	...	2	...	...	...	18	...
42. Peaks of Otter	...	...	...	...	4	...	...	...	...	...
43. Clifton Forge	...	...	...	...	2	...	...	...	...	...
44. Fincastle	...	...	...	...	7	...	...	...	4	...
45. Roanoke	...	...	...	...	...	...	...	...	2	...
46. Blacksburg	...	...	...	...	55	...	...	...	CW	...
47. Giles County	...	...	...	...	29	...	...	...	6	...
48. Tazewell	...	...	...	1	8	...	...	...	2	...
49. Mt. Rogers-White Top Mt.	...	...	...	...	...	...	...	...	...	...
50. Glade Spring	...	...	...	1	51	...	...	...	2	...
51. Blackford	...	...	...	...	41	...	...	...	1	...
52. Bristol	3	...	...	...	55	...	...	...	42	4
53. Buchanan	...	...	...	...	2	...	...	...	...	...
54. Breaks Interstate Park	7	3	...
55. Wise County	1
Totals:	12452	695	56	3	875	2812	441	30	660	535

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	Eared Grebe	Northern Gannet	Double-crested Cormorant	Great Cormorant	Brown Pelican	American Bittern	Great Blue Heron (Blue form)	Great Egret	Snowy Egret	Little Blue Heron
1. Chincoteague	...	15	11	...	...	...	91	31	3	1
2. Wachapreague	46	...	...	...	35	...	...	...
3. Nassawadox	...	3	13	...	...	...	26	1	...	...
4. Cape Charles	...	248	92	9	26	...	47	10	...	1
5. Chesapeake Bay	...	688	2752	24	11	...	2	...	...	...
6. Little Creek	...	4029	5799	1	7	...	85	68	...	...
7. Back Bay	...	84	234	...	13	1	59	42	6	...
8. Nansemond River	2422	...	...	...	74	1	...	...
9. Dismal Swamp	1	...	...	...	4	...	...	...
10. Newport News	...	2	381	...	27	1	92	3	...	...
11. Mathews	4	...	1	...	54	1	...	...
12. Williamsburg	1434	...	19	...	101	8	...	...
13. Hopewell	351	...	...	...	68	...	...	...
14. Walkerton	13	...	...	...	16	...	...	...
15. Northumberland-Lancaster	...	2	25	...	5	...	32	...	...	...
16. Washington's Birthplace	93	...	...	...	17	...	...	...
17. Brooke	311	...	...	...	50	...	...	...
18. Fort Belvoir	CW	...	166	...	...	...	170	1	...	...
19. Central Loudon	23	...	...	...
20. The Plains	10	...	...	...	35	...	...	...
21. Manassas-Bull Run	28	...	...	...
22. Nokesville	12	...	...	...
23. Chancellorsville	5	...	...	...
24. Lake Anna	13	...	...	...
25. Gordonsville	6	...	...	...	...
26. Charlottesville	11	...	...	...
27. Warren	6	...	...	...
28. Darlington Heights	1	...	...	...
29. Banister River W.M.A	1	...	...	...	18	...	...	...
30. Lynchburg	10	...	...	...
31. Chatham	1	...	...	...
32. Danville	2	...	...	...
33. Calmes Neck	1	...	...	...	45	...	...	...
34. Northern Shenandoah Valley	3	...	...	...	22	...	...	...
35. Rappahannock
36. Shenandoah N.P.-Luray	1	...	...	...	12	...	...	...
37. Big Flat Mountain
38. Rockingham County	10	...	...	...
39. Augusta County	15	...	...	...
40. Waynesboro	12	...	...	...
41. Lexington	15	...	...	...
42. Peaks of Otter
43. Clifton Forge	8	...	...	...
44. Fincastle	10	...	...	...
45. Roanoke	11	...	...	...
46. Blacksburg	19	...	...	...
47. Giles County	13	...	...	...
48. Tazewell	5	...	...	...
49. Mt. Rogers-White Top Mt.	5	...	...	...
50. Glade Spring	26	...	...	...
51. Blackford	15	...	...	...
52. Bristol	1	...	...	...	30	...	...	...
53. Buchanan	4	...	...	...
54. Breaks Interstate Park	9
55. Wise County	3
Totals:	CW	5071	14165	34	109	2	1483	166	9	2

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	Tricolored Heron	Cattle Egret	Green Heron	Black-crowned Night-Heron	White Ibis	Black Vulture	Turkey Vulture	Osprey	Golden Eagle	Northern Harrier
1. Chincoteague	31	...	...	2	...	30	307	...	...	26
2. Wachapreague	1	...	63	897	1	...	11
3. Nassawadox	1	...	105	107	...	...	6
4. Cape Charles	17	...	...	5	1	181	220	...	...	24
5. Chesapeake Bay	16	...	...	...
6. Little Creek	1	...	9	23	4	...	2
7. Back Bay	3	12	...	...	79	30	98	...	...	26
8. Nansemond River	95	128	3	...	10
9. Dismal Swamp	11	75	...	...	2
10. Newport News	1	...	46	52	1	...	6
11. Mathews	104	205	...	...	2
12. Williamsburg	1	...	248	249	...	...	2
13. Hopewell	26	51	3	...	2
14. Walkerton	136	447	...	...	9
15. Northumberland-Lancaster	91	161	...	...	4
16. Washington's Birthplace	88	100	...	...	9
17. Brooke	326	216	...	...	3
18. Fort Belvoir	170	153	...	...	3
19. Central Loudon	437	369	1	...	8
20. The Plains	218	163	...	...	8
21. Manassas-Bull Run	183	95	...	...	2
22. Nokesville	73	157	...	...	7
23. Chancellorsville	73	116	...	...	...
24. Lake Anna	18	19	...	...	...
25. Gordonsville	56	76	...	...	4
26. Charlottesville	115	91	...	...	3
27. Warren	46	94	...	...	4
28. Darlington Heights	76	105	...	...	5
29. Banister River W.M.A	16	78	...	...	...
30. Lynchburg	190	178	...	...	...
31. Chatham	CW	21	...	...	3
32. Danville	161	55	...	...	...
33. Calmes Neck	249	141	...	...	3
34. Northern Shenandoah Valley	CW	...	...	177	326	...	...	6
35. Rappahannock	13	34	...	...	...
36. Shenandoah N.P.-Luray	14	...	1	...
37. Big Flat Mountain
38. Rockingham County	30	302	...	2	3
39. Augusta County	267	483	...	...	11
40. Waynesboro	2	...	25	133	...	...	4
41. Lexington	48	89	...	...	4
42. Peaks of Otter	6	...	...	...
43. Clifton Forge	27	46	...	1	...
44. Fincastle	16	41	...	...	...
45. Roanoke	62	66	...	...	...
46. Blacksburg	712	...	...	...	1
47. Giles County	46	30	...	...	2
48. Tazewell	1	...	3	1
49. Mt. Rogers-White Top Mt.	1	1	...	...	...
50. Glade Spring	288	50	...	...	...
51. Blackford	65	1	...	1	1
52. Bristol	15	36	...	...	...
53. Buchanan
54. Breaks Interstate Park	6	10	2
55. Wise County	1
Totals:	51	12	CW	14	80	5468	6933	13	8	229

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	Sharp-shinned Hawk	Cooper's Hawk	Accipiter sp.	Bald Eagle	Red-shouldered Hawk	Broad-winged Hawk	Red-tailed Hawk	Rough-legged Hawk	Buteo sp.	King Rail
1. Chincoteague	5	4	...	68	5	...	15	...	...	...
2. Wachapreague	...	1	...	55	4	...	17	...	...	...
3. Nassawadox	7	4	...	23	4	...	9	...	...	...
4. Cape Charles	8	11	...	73	5	...	18	...	...	...
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	2	1	...	...	2	...	10	...	...	...
7. Back Bay	2	6	...	31	10	...	24	...	...	7
8. Nansemond River	1	3	...	37	6	...	34	...	...	...
9. Dismal Swamp	2	...	...	2	9	...	3	...	...	...
10. Newport News	3	7	...	25	3	...	15	...	...	...
11. Mathews	3	5	...	35	15	...	11	...	...	...
12. Williamsburg	7	5	1	107	31	...	23	...	...	...
13. Hopewell	1	2	...	71	13	...	8	...	...	2
14. Walkerton	2	3	...	58	11	...	17	...	...	...
15. Northumberland-Lancaster	3	...	...	29	14	...	18	...	...	...
16. Washington's Birthplace	...	2	...	100	9	...	9	...	...	...
17. Brooke	4	11	...	259	26	...	9	...	...	...
18. Fort Belvoir	9	13	2	188	47	...	44	...	1	...
19. Central Loudon	12	15	8	32	115	...	71	...	...	...
20. The Plains	3	2	1	29	66	...	43	...	...	...
21. Manassas-Bull Run	6	13	2	10	97	...	36	1	...	...
22. Nokesville	...	2	...	25	17	...	13	...	...	...
23. Chancellorsville	1	...	...	11	29	...	2	...	...	...
24. Lake Anna	...	...	...	11	2	...	12	...	...	...
25. Gordonsville	...	3	...	18	19	...	10	...	1	...
26. Charlottesville	7	3	...	12	36	...	13	...	...	...
27. Warren	1	3	...	3	11	...	32	1	...	...
28. Darlington Heights	1	3	...	1	13	...	24	...	...	...
29. Banister River W.M.A	2	2	...	3	8	...	10	...	...	...
30. Lynchburg	1	1	...	4	13	...	25	...	...	...
31. Chatham	...	1	...	...	3	...	2	...	...	...
32. Danville	2	1	...	...	17	...	11	...	...	...
33. Calmes Neck	2	7	...	29	42	...	48	...	1	...
34. Northern Shenandoah Valley	6	14	...	16	34	...	60	...	...	...
35. Rappahannock	1	1	...	4	5	...	4	...	...	...
36. Shenandoah N.P.-Luray	5	6	...	21	17	...	19	3	...	...
37. Big Flat Mountain	...	...	...	1	...	...	1	...	...	...
38. Rockingham County	4	6	...	11	1	...	56	...	1	...
39. Augusta County	3	4	...	CW	13	1	66	...	...	...
40. Waynesboro	2	5	...	1	9	...	21	...	...	...
41. Lexington	4	...	...	16	9	...	32	...	...	...
42. Peaks of Otter	...	...	...	...	...	...	2	...	...	...
43. Clifton Forge	1	...	...	1	1	...	18	...	...	...
44. Fincastle	2	5	...	4	7	...	17	...	...	...
45. Roanoke	2	4	...	...	3	...	9	...	...	...
46. Blacksburg	4	6	...	1	5	...	36	...	...	...
47. Giles County	...	...	...	1	...	...	10	...	...	...
48. Tazewell	2	1	...	3	1	...	13	1	...	...
49. Mt. Rogers-White Top Mt.	...	...	...	2	...	...	5	...	...	...
50. Glade Spring	3	4	...	5	...	...	39	...	...	...
51. Blackford	2	...	...	3	6	...	10	...	...	...
52. Bristol	2	3	...	3	...	...	18	...	...	...
53. Buchanan	CW	...	...	...	CW	...	1	...	...	...
54. Breaks Interstate Park	1	1	...	1	4	...	7
55. Wise County	1	1	4	...	8
Totals:	142	195	14	1443	821	1	1088	6	4	9

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	Clapper Rail	Virginia Rail	Sora	Common Gallinule	American Coot	Sandhill Crane	American Oystercatcher	Black-bellied Plover	Semipalmated Plover	Piping Plover
1. Chincoteague	3	...	1	...	...	...	230	45	2	...
2. Wachapreague	4	1	...	...	...	...	92	354	3	...
3. Nassawadox	1	2	...	...	1	2	426	526	12	...
4. Cape Charles	30	4	...	1	11	...	264	619	32	1
5. Chesapeake Bay
6. Little Creek	2	...	...	...	38	...	15	...	...	...
7. Back Bay	...	6	1	CW	28	...	...	...	...	...
8. Nansemond River	6	...	...	...	9	...	...	2	1	...
9. Dismal Swamp
10. Newport News	3	...	...	...	108	...	...	17	...	...
11. Mathews	3	...	...	...	...	...	...	9	1	...
12. Williamsburg	6	3	...	...	13	...	...	...	...	...
13. Hopewell	54	...	...	...	...	...
14. Walkerton	1	...	...	...	...	...
15. Northumberland-Lancaster	1	...	...	...	...	...	...	...	...	...
16. Washington's Birthplace	1	...	...	...	...	...	...	...
17. Brooke	606	...	...	...	...	...
18. Fort Belvoir	2825	...	...	...	...	...
19. Central Loudon
20. The Plains
21. Manassas-Bull Run
22. Nokesville
23. Chancellorsville	32	...	...	...	...	...
24. Lake Anna
25. Gordonsville	3	...	...	...	...
26. Charlottesville
27. Warren
28. Darlington Heights
29. Banister River W.M.A
30. Lynchburg	3	...	...	...	...	...
31. Chatham
32. Danville	1	...	...	...	...	...
33. Calmes Neck	4	...	...	...	...	...
34. Northern Shenandoah Valley	...	1	...	...	...	...	...	...	...	...
35. Rappahannock	1	...	...	...	...	...
36. Shenandoah N.P.-Luray
37. Big Flat Mountain
38. Rockingham County	1	...	...	...	...	...
39. Augusta County	7	...	...	...	...	...
40. Waynesboro	10	...	...	...	...	...
41. Lexington	1	...	...	...	...	...
42. Peaks of Otter
43. Clifton Forge	1	...	...	...	...	...
44. Fincastle	10	...	...	...	...	...
45. Roanoke
46. Blacksburg
47. Giles County
48. Tazewell
49. Mt. Rogers-White Top Mt.
50. Glade Spring	18	...	...	...	...	...
51. Blackford
52. Bristol	18	...	...	...	...	...
53. Buchanan
54. Breaks Interstate Park
55. Wise County
Totals:	59	17	3	1	3801	5	1027	1572	51	1

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	Killdeer	Spotted Sandpiper	Greater Yellowlegs	Willet	Lesser Yellowlegs	yellowlegs sp.	Whimbrel	Marbled Godwit	Ruddy Turnstone	Red Knot
1. Chincoteague	20	...	130	93	34	10	...	44	3	2
2. Wachapreague	60	1	81	70	13	...	1	...	3	4
3. Nassawadox	70	...	25	85	...	...	...	...	34	...
4. Cape Charles	76	...	171	286	3	...	4	9	80	36
5. Chesapeake Bay	...	...	...	...	...	...	...	6	...	...
6. Little Creek	3	1	6	...	1	...	...	...	...	...
7. Back Bay	639	...	...	...	...	...	...	...	...	...
8. Nansemond River	208	...	13	...	...	6	...	...	6	...
9. Dismal Swamp	17	...	...	...	...	...	...	...	...	...
10. Newport News	60	...	5	...	...	...	...	...	27	...
11. Mathews	42	...	1	...	5	1	...	...	3	...
12. Williamsburg	61	...	...	...	...	...	...	...	...	...
13. Hopewell	98	...	...	...	...	...	...	...	...	...
14. Walkerton	149	...	1	...	...	...	...	...	...	...
15. Northumberland-Lancaster	5	...	...	...	...	...	...	...	...	...
16. Washington's Birthplace	68	...	...	...	...	...	...	...	...	...
17. Brooke	13	...	...	...	...	...	...	...	...	...
18. Fort Belvoir	61	...	7	...	2	...	...	...	...	...
19. Central Loudon	1	...	...	...	...	...	...	...	...	...
20. The Plains	5	...	...	...	...	...	...	...	...	...
21. Manassas-Bull Run	16	...	...	...	...	...	...	...	...	...
22. Nokesville	...	...	...	...	...	...	...	...	...	...
23. Chancellorsville	11	...	...	...	...	...	...	...	...	...
24. Lake Anna	8	...	...	...	...	...	...	...	...	...
25. Gordonsville	2	...	...	...	...	...	...	...	...	...
26. Charlottesville	...	...	...	...	...	...	...	...	...	...
27. Warren	3	...	...	...	...	...	...	...	...	...
28. Darlington Heights	1	...	...	...	...	...	...	...	...	...
29. Banister River W.M.A	31	...	...	...	...	...	...	...	...	...
30. Lynchburg	10	...	...	...	...	...	...	...	...	...
31. Chatham	...	...	...	...	...	...	...	...	...	...
32. Danville	12	...	...	...	...	...	...	...	...	...
33. Calmes Neck	11	...	...	...	...	...	...	...	...	...
34. Northern Shenandoah Valley	21	...	...	...	...	...	...	...	...	...
35. Rappahannock	...	...	...	...	...	...	...	...	...	...
36. Shenandoah N.P.-Luray	3	...	...	...	...	...	...	...	...	...
37. Big Flat Mountain	...	...	...	...	...	...	...	...	...	...
38. Rockingham County	14	...	...	...	...	...	...	...	...	...
39. Augusta County	1	...	...	...	...	...	...	...	...	...
40. Waynesboro	2	...	...	...	...	...	...	...	...	...
41. Lexington	6	...	...	...	...	...	...	...	...	...
42. Peaks of Otter	...	...	...	...	...	...	...	...	...	...
43. Clifton Forge	2	...	...	...	...	...	...	...	...	...
44. Fincastle	...	...	...	...	...	...	...	...	...	...
45. Roanoke	33	...	...	...	...	...	...	...	...	...
46. Blacksburg	7	...	...	...	...	...	...	...	...	...
47. Giles County	2	...	...	...	...	...	...	...	...	...
48. Tazewell	3	...	...	...	...	...	...	...	...	...
49. Mt. Rogers-White Top Mt.	...	...	...	...	...	...	...	...	...	...
50. Glade Spring	82	...	...	...	...	...	...	...	...	...
51. Blackford	...	...	...	...	...	...	...	...	...	...
52. Bristol	5	...	...	...	...	...	...	...	...	...
53. Buchanan	2	...	...	...	...	...	...	...	...	...
54. Breaks Interstate Park
55. Wise County	7
Totals:	1951	2	440	534	58	17	5	59	156	42

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	Sanderling	Dunlin	Purple Sandpiper	Least Sandpiper	Western Sandpiper	peep sp.	Short-billed Dowitcher	Long-billed Dowitcher	dowitcher sp.	Wilson's Snipe
1. Chincoteague	166	1690	...	...	10	1400	1	100	14	5
2. Wachapreague	24	1195	...	...	...	7000	...	...	...	...
3. Nassawadox	18	10521	...	...	4	...	35	...	...	3
4. Cape Charles	186	4717	13	4	224	...	144	...	...	1
5. Chesapeake Bay	6	...	7	...	...	...	...	...	...	...
6. Little Creek	79 35	...	...	...	...	...	...	...	...	...
7. Back Bay	1	40	...	...	...	...	...	...	...	37
8. Nansemond River	71	49	...	1	...	4	...	...	...	17
9. Dismal Swamp	...	...	...	...	...	...	...	...	...	...
10. Newport News	146	948	...	...	2	...	...	...	...	...
11. Mathews	75	267	...	...	...	...	...	...	...	...
12. Williamsburg	...	31	...	...	...	...	...	...	...	...
13. Hopewell	...	35	...	...	...	...	...	...	...	29
14. Walkerton	...	...	...	...	...	...	...	...	...	4
15. Northumberland-Lancaster	43	29	...	...	...	...	...	...	...	...
16. Washington's Birthplace	...	19	...	...	...	...	...	...	...	3
17. Brooke	...	...	...	...	...	...	...	...	...	1
18. Fort Belvoir	...	...	...	...	...	...	...	...	...	7
19. Central Loudon	...	...	...	...	...	...	...	...	...	...
20. The Plains	...	...	...	...	...	...	...	...	...	CW
21. Manassas-Bull Run	...	...	...	...	...	...	...	...	...	...
22. Nokesville	...	...	...	...	...	...	...	...	...	2
23. Chancellorsville	...	...	...	...	...	...	...	...	...	...
24. Lake Anna	...	...	...	...	...	...	...	...	...	...
25. Gordonsville	...	...	...	...	...	...	...	...	...	...
26. Charlottesville	...	...	...	...	...	...	...	...	...	...
27. Warren	...	...	...	...	...	...	...	...	...	...
28. Darlington Heights	...	...	...	...	...	...	...	...	...	...
29. Banister River W.M.A	...	...	...	...	...	...	...	...	...	...
30. Lynchburg	...	...	...	...	...	...	...	...	...	...
31. Chatham	...	...	...	...	...	...	...	...	...	...
32. Danville	...	...	...	...	...	...	...	...	...	...
33. Calmes Neck	...	...	...	...	...	...	...	...	...	5
34. Northern Shenandoah Valley	...	...	...	...	...	...	...	...	...	...
35. Rappahannock	...	...	...	...	...	...	...	...	...	...
36. Shenandoah N.P.-Luray	...	...	...	...	...	...	...	...	...	2
37. Big Flat Mountain	...	...	...	...	...	...	...	...	...	...
38. Rockingham County	...	...	...	...	...	...	...	...	...	7
39. Augusta County	...	...	...	...	...	...	...	...	...	1
40. Waynesboro	...	...	...	...	...	...	...	...	...	2
41. Lexington	...	...	...	...	...	...	...	...	...	1
42. Peaks of Otter	...	...	...	...	...	...	...	...	...	...
43. Clifton Forge	...	...	...	...	...	...	...	...	...	...
44. Fincastle	...	...	...	...	...	...	...	...	...	...
45. Roanoke	...	...	...	...	...	...	...	...	...	3
46. Blacksburg	...	...	...	...	...	...	...	...	...	1
47. Giles County	...	...	...	...	...	...	...	...	...	...
48. Tazewell	...	...	...	...	...	...	...	...	...	...
49. Mt. Rogers-White Top Mt.	...	...	...	...	...	...	...	...	...	...
50. Glade Spring	...	...	...	...	...	...	...	...	...	1
51. Blackford	...	...	...	...	...	...	...	...	...	...
52. Bristol	...	...	...	...	...	...	...	...	...	...
53. Buchanan	...	...	...	...	...	...	...	...	...	...
54. Breaks Interstate Park
55. Wise County
Totals:	815	19576	20	5	240	8404	180	100	14	132

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	American Woodcock	Scolopacidae sp.	shorebird sp.	Black-legged Kittiwake	Bonaparte's Gull	Laughing Gull	Ring-billed Gull	Herring Gull	Iceland Gull	Lesser Black-backed Gull
1. Chincoteague	7	...	19	...	3	...	1887	1166	...	2
2. Wachapreague	1	...	...	...	...	...	1167	402	...	...
3. Nassawadox	2	...	...	...	16	...	258	139	...	...
4. Cape Charles	78	...	...	...	...	...	1288	690	...	1
5. Chesapeake Bay	...	...	...	...	3	1	607	777	...	12
6. Little Creek	...	...	...	1	15	1	3374	805	...	34
7. Back Bay	3	...	...	...	...	...	337	78	...	16
8. Nansemond River	3	...	...	...	...	...	10736	979	...	11
9. Dismal Swamp	...	...	...	...	...	...	10	...	...	...
10. Newport News	...	...	...	...	1	15	1774	440	...	1
11. Mathews	2	19	19	...	48	...	1309	189	...	...
12. Williamsburg	...	...	...	...	123	2	428	61	...	...
13. Hopewell	4	...	5	...	46	3030	11462	2213	...	1
14. Walkerton	3	...	...	...	...	...	128	...	...	...
15. Northumberland-Lancaster	2	...	...	...	2	3	416	61	...	...
16. Washington's Birthplace	2	...	...	...	...	...	194	7	...	...
17. Brooke	...	...	...	...	...	1880	7893	266	...	...
18. Fort Belvoir	5	...	...	...	1	...	5518	482	CW	...
19. Central Loudon	2	...	...	...	...	...	2144	305	2	1
20. The Plains	1	...	...	...	...	...	366	...	...	...
21. Manassas-Bull Run	1	...	...	...	...	...	2387	61	...	...
22. Nokesville	1	...	...	...	...	4	3417	355	...	...
23. Chancellorsville	...	...	...	...	...	...	16	1	...	...
24. Lake Anna	...	...	...	...	...	...	2210	53	...	...
25. Gordonsville	1	...	...	...	...	...	5	...	...	...
26. Charlottesville	...	...	...	...	...	...	...	...	...	...
27. Warren	...	...	...	...	...	...	...	...	...	...
28. Darlington Heights	...	...	...	...	...	...	...	...	...	...
29. Banister River W.M.A	...	...	...	...	325	...	1074	...	...	...
30. Lynchburg	...	...	...	...	...	...	675	1	...	...
31. Chatham	...	...	...	...	...	...	...	...	...	...
32. Danville	1	...	...	...	...	...	...	...	...	...
33. Calmes Neck	...	...	...	...	...	...	...	...	...	...
34. Northern Shenandoah Valley	...	...	...	...	CW	...	2	2	...	...
35. Rappahannock	...	...	...	...	...	...	...	...	...	...
36. Shenandoah N.P.-Luray	...	...	...	...	...	...	...	...	...	...
37. Big Flat Mountain	...	...	...	...	...	...	...	...	...	...
38. Rockingham County	...	...	...	...	...	...	...	...	...	...
39. Augusta County	CW	...	...	...	...	...	...	...	...	...
40. Waynesboro	...	...	...	...	...	...	...	...	...	...
41. Lexington	...	...	...	...	...	...	1	...	...	...
42. Peaks of Otter	...	...	...	...	...	...	...	...	...	...
43. Clifton Forge	1	...	...	...	...	...	...	...	...	...
44. Fincastle	...	...	...	...	...	...	1	...	...	...
45. Roanoke	...	...	...	...	...	...	6	...	...	...
46. Blacksburg	...	...	...	...	...	...	1527	1	...	...
47. Giles County	...	...	...	...	...	...	16	...	...	...
48. Tazewell	...	...	...	...	...	...	...	...	...	...
49. Mt. Rogers-White Top Mt.	...	...	...	...	...	...	...	...	...	...
50. Glade Spring	...	...	...	...	...	...	...	...	...	...
51. Blackford	...	...	...	...	...	...	...	...	...	...
52. Bristol	...	...	...	...	3	...	500	1	...	...
53. Buchanan	...	...	...	...	...	...	...	...	...	...
54. Breaks Interstate Park
55. Wise County
Totals:	120	19	43	1	586	4936	63133	9535	2	79

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	Glaucous Gull	Herring x Glaucous Gull (hybrid)	Great Black-backed Gull	gull sp.	Forster's Tern	tern sp.	Rock Pigeon (Feral Pigeon)	Eurasian Collared-Dove	Mourning Dove	Barn Owl
1. Chincoteague	118	840	283	...	99	...	157	...
2. Wachapreague	22	150	43	...	19	...	154	...
3. Nassawadox	20	...	32	...	32	...	45	...
4. Cape Charles	736	400	...	...	391	1	632	...
5. Chesapeake Bay	...	1	39	...	3	...	4	...	...	...
6. Little Creek	193	...	1	...	244	...	67	...
7. Back Bay	35	...	...	...	99	4	52	...
8. Nansemond River	35	30	...	...	197	...	117	1
9. Dismal Swamp	12	...	33	...
10. Newport News	68	...	2	...	357	...	106	...
11. Mathews	21	43	...	...	...	...	226	...
12. Williamsburg	31	...	108	...	154	...	183	...
13. Hopewell	4	11000	10	...	99	...	126	...
14. Walkerton	5	...	324	...
15. Northumberland-Lancaster	7	...	12	1	57	...	38	...
16. Washington's Birthplace	1	...	2	...	...	...	398	...
17. Brooke	20	...	...	...	23	...	135	...
18. Fort Belvoir	1	...	98	275	...	...	103	...	979	...
19. Central Loudon	1	...	...	...	304	...	407	1
20. The Plains	173	...	457	...
21. Manassas-Bull Run	58	...	...	300	...	526	...
22. Nokesville	42	154	...	...	51	...	193	...
23. Chancellorsville	23	...	64	...
24. Lake Anna	120	...	...	...	...	...	108	...
25. Gordonsville	67	...	371	1
26. Charlottesville	145	...	291	...
27. Warren	43	...	127	1
28. Darlington Heights	11	...	193	...
29. Banister River W.M.A	22	...	88	...
30. Lynchburg	58	...	146	...
31. Chatham	75	...	24	...
32. Danville	78	...	75	...
33. Calmes Neck	589	...	704	...
34. Northern Shenandoah Valley	576	...	1034	2
35. Rappahannock	6	...	24	...
36. Shenandoah N.P.-Luray	507	...	487	2
37. Big Flat Mountain	2	...
38. Rockingham County	1149	30	477	...
39. Augusta County	462	...	987	2
40. Waynesboro	41	...	256	2
41. Lexington	70	...	409	2
42. Peaks of Otter	3	...
43. Clifton Forge	275	...	82	...
44. Fincastle	102	...	281	...
45. Roanoke	50	...	185	...
46. Blacksburg	404	6	480	...
47. Giles County	26	...	50	...
48. Tazewell	148	...	23	...
49. Mt. Rogers-White Top Mt.	8	...	150	...
50. Glade Spring	492	2	326	...
51. Blackford	50	...	155	...
52. Bristol	166	...	230	...
53. Buchanan	5	...	53	...
54. Breaks Interstate Park	35	...	20	...
55. Wise County	28	...	51	...
Totals:	1	1	1611	12950	496	1	8434	43	13311	14

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	Eastern Screech-Owl	Great Horned Owl	Barred Owl	Long-eared Owl	Short-eared Owl	Ruby-throated Hummingbird	hummingbird sp.	Belted Kingfisher	Red-headed Woodpecker	Red-bellied Woodpecker
1. Chincoteague	17	11	...	...	...	...	...	20	...	33
2. Wachapreague	11	3	...	1	1	...	...	22	...	24
3. Nassawadox	4	5	...	...	...	...	...	22	...	30
4. Cape Charles	5	7	...	...	1	1	...	17	...	50
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	7	...	...	...	...	1	...	20	...	40
7. Back Bay	12	3	...	...	...	...	...	14	...	55
8. Nansemond River	2	6	...	...	...	1	1	19	...	85
9. Dismal Swamp	...	...	...	...	...	...	...	7	...	46
10. Newport News	...	5	...	...	...	...	...	28	2	59
11. Mathews	...	4	4	...	...	...	...	25	1	70
12. Williamsburg	5	12	4	...	...	1	...	34	15	195
13. Hopewell	...	6	4	...	1	...	...	11	2	65
14. Walkerton	1	6	1	...	...	...	...	11	27	71
15. Northumberland-Lancaster	3	3	2	...	...	...	...	19	5	60
16. Washington's Birthplace	3	16	10	...	...	...	...	11	6	41
17. Brooke	...	...	...	...	...	...	...	25	21	98
18. Fort Belvoir	17	7	17	...	...	...	...	37	10	560
19. Central Loudon	2	...	14	...	...	...	...	22	45	253
20. The Plains	16	4	2	...	6	...	...	19	20	188
21. Manassas-Bull Run	...	4	6	...	...	...	...	12	9	323
22. Nokesville	...	...	1	...	...	...	...	7	9	39
23. Chancellorsville	1	...	1	...	...	...	...	2	...	54
24. Lake Anna	...	2	...	...	...	...	...	3	...	23
25. Gordonsville	...	2	1	...	5	...	...	12	3	42
26. Charlottesville	4	2	2	...	...	...	...	19	1	135
27. Warren	4	1	...	...	...	...	...	5	13	63
28. Darlington Heights	2	3	1	...	...	...	...	2	9	39
29. Banister River W.M.A	4	9	12	...	...	...	...	6	8	49
30. Lynchburg	9	4	2	...	...	...	...	12	4	82
31. Chatham	...	...	...	...	...	...	...	...	...	3
32. Danville	...	...	1	...	...	...	...	4	...	44
33. Calmes Neck	8	5	3	...	...	...	...	35	47	176
34. Northern Shenandoah Valley	25	5	1	...	4	...	...	29	38	91
35. Rappahannock	2	...	1	...	...	...	...	1	...	12
36. Shenandoah N.P.-Luray	8	...	3	...	...	...	...	15	...	38
37. Big Flat Mountain	2	...	...	...	...	...	...	1	...	13
38. Rockingham County	5	CW	...	...	...	...	...	14	4	51
39. Augusta County	9	1	...	...	9	...	...	11	...	107
40. Waynesboro	5	1	1	...	...	1	...	9	...	61
41. Lexington	18	1	1	...	...	...	...	15	...	65
42. Peaks of Otter	...	...	...	...	...	...	...	...	...	5
43. Clifton Forge	1	1	...	...	...	...	...	3	...	4
44. Fincastle	1	2	...	...	...	...	...	7	...	41
45. Roanoke	...	...	...	...	...	...	...	2	...	24
46. Blacksburg	7	4	CW	...	...	...	...	14	1	93
47. Giles County	...	...	...	...	...	...	...	9	...	34
48. Tazewell	1	1	1	...	...	...	...	4	1	4
49. Mt. Rogers-White Top Mt.	...	...	...	...	...	...	...	...	...	8
50. Glade Spring	9	4	...	...	...	...	...	9	2	40
51. Blackford	2	...	...	...	...	...	...	4	...	16
52. Bristol	6	...	...	...	...	...	...	12	...	33
53. Buchanan	...	...	CW	...	...	...	...	...	...	4
54. Breaks Interstate Park	1	CW	7	...	5
55. Wise County	...	1	1	3	...	13
Totals:	239	151	97	1	27	5	1	671	303	3857

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	Yellow-bellied Sapsucker	Downy Woodpecker	Hairy Woodpecker	Red-cockaded Woodpecker	Northern (Yellow- shafted) Flicker	Pileated Woodpecker	American Kestrel	Merlin	Peregrine Falcon	diurnal raptor sp.
1. Chincoteague	6	44	8	...	105	12	9	9	3	...
2. Wachapreague	8	12	5	...	60	10	23	...	3	...
3. Nassawadox	6	11	6	...	71	14	10	5	2	...
4. Cape Charles	25	11	7	...	101	10	32	2	8	...
5. Chesapeake Bay	...	...	...	...	...	...	...	...	1	...
6. Little Creek	19	30	...	...	19	3	4	...	3	...
7. Back Bay	16	42	6	...	47	22	24	3	...	...
8. Nansemond River	33	40	8	...	54	11	10	1	2	...
9. Dismal Swamp	18	34	15	1	39	28	3	...	...	...
10. Newport News	24	45	5	...	49	11	2	2	...	...
11. Mathews	26	22	2	...	64	12	4	1	...	2
12. Williamsburg	85	134	19	...	103	45	1	1	...	...
13. Hopewell	25	31	7	...	115	22	6	...	2	...
14. Walkerton	43	38	11	...	113	18	5	2	...	...
15. Northumberland-Lancaster	19	27	...	...	46	11	8	...	...	...
16. Washington's Birthplace	12	30	6	...	113	12	11	1	CW	...
17. Brooke	17	63	21	...	46	38	2	...	...	...
18. Fort Belvoir	100	391	89	...	229	100	3	4	CW	...
19. Central Loudon	132	174	18	...	131	33	5	...	...	...
20. The Plains	100	138	24	...	141	51	10	...	...	...
21. Manassas-Bull Run	55	201	29	...	199	74	3	1	...	...
22. Nokesville	12	24	8	...	60	16	6	2	...	...
23. Chancellorsville	9	26	3	...	35	19	1	1	...	...
24. Lake Anna	2	8	1	...	15	12	1	...	...	...
25. Gordonsville	18	18	7	...	54	22	5	...	...	...
26. Charlottesville	67	110	17	...	96	72	2	...	...	...
27. Warren	25	34	13	...	33	26	8	...	...	...
28. Darlington Heights	27	34	6	...	32	34	11	...	...	...
29. Banister River W.M.A	27	35	7	...	62	18	...	...	...	...
30. Lynchburg	31	57	7	...	46	40	...	...	...	...
31. Chatham	1	2	...	...	3	3	2	...	...	...
32. Danville	5	14	5	...	15	4	2	...	...	...
33. Calmes Neck	73	121	22	...	108	53	26	...	...	...
34. Northern Shenandoah Valley	45	87	10	...	87	48	27	CW	...	...
35. Rappahannock	9	12	2	...	14	7	3	...	...	...
36. Shenandoah N.P.-Luray	30	45	9	...	24	29	12	1	1	...
37. Big Flat Mountain	4	21	6	...	4	11	...	...	...	...
38. Rockingham County	14	38	17	...	19	29	46	2	...	...
39. Augusta County	14	69	8	...	47	10	44	1	...	...
40. Waynesboro	14	38	5	...	31	14	16	1	1	...
41. Lexington	26	59	16	...	29	48	19	1	...	...
42. Peaks of Otter	5	3	2	...	5	9	...	...	...	...
43. Clifton Forge	3	9	1	...	5	7	1	...	...	...
44. Fincastle	8	35	9	...	26	23	3	...	...	...
45. Roanoke	11	27	4	...	13	5	2	...	...	...
46. Blacksburg	22	110	12	...	22	39	12	...	...	...
47. Giles County	15	45	8	...	9	17	2	...	...	...
48. Tazewell	1	5	2	...	3	4	6	...	...	...
49. Mt. Rogers-White Top Mt.	2	7	1	...	7	3	3	...	...	...
50. Glade Spring	13	38	4	...	18	17	34	...	...	...
51. Blackford	2	10	...	...	17	6	7	...	...	...
52. Bristol	15	30	6	...	31	16	20	...	2	...
53. Buchanan	2	6	1	...	1	4	...	...	...	...
54. Breaks Interstate Park	5	5	4	...	5	6	3
55. Wise County	1	12	13	...	8	10	2
Totals:	1327	2712	522	1	2829	1218	501	41	28	2

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	Eastern Phoebe	Say's Phoebe	Loggerhead Shrike	Northern Shrike	Blue-headed Vireo	Blue Jay	American Crow	Fish Crow	crow sp.	Common Raven
1. Chincoteague	17	...	...	...	...	51	253	13	4	...
2. Wachapreague	19	...	...	...	...	31	1005	49	175	...
3. Nassawadox	10	...	...	...	...	39	358	46	60	...
4. Cape Charles	14	...	...	...	1	75	396	339	300	...
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	3	...	...	...	1	57	6333	332	255	...
7. Back Bay	20	...	...	...	4	73	339	68	...	...
8. Nansemond River	15	...	...	...	2	148	132	765	98	...
9. Dismal Swamp	17	...	...	...	3	17	11	1	...	...
10. Newport News	7	...	...	...	...	103	653	126	...	...
11. Mathews	6	...	...	...	...	127	626	1	...	...
12. Williamsburg	22	...	...	...	1	189	333	6	17	...
13. Hopewell	24	...	...	...	...	58	107	...	3	2
14. Walkerton	87	1	...	...	CW	52	629	...	...	...
15. Northumberland-Lancaster	9	...	...	...	...	31	541	7	...	...
16. Washington's Birthplace	8	...	...	1	...	96	152	...	...	...
17. Brooke	1	...	...	...	...	223	565	21	...	3
18. Fort Belvoir	11	...	...	...	...	688	1418	834	1504	8
19. Central Loudon	10	...	...	...	...	377	1340	864	438	17
20. The Plains	8	...	...	...	...	365	603	27	32	11
21. Manassas-Bull Run	2	...	...	1	...	533	827	473	591	8
22. Nokesville	3	...	...	...	...	89	187	599	364	8
23. Chancellorsville	1	...	...	...	...	78	209	1	...	4
24. Lake Anna	...	...	...	...	...	46	101	...	...	...
25. Gordonsville	4	...	...	...	...	98	234	1	...	2
26. Charlottesville	12	...	...	...	...	238	418	47	...	14
27. Warren	13	...	...	...	...	120	1063	...	...	14
28. Darlington Heights	10	...	...	...	...	63	779	...	...	...
29. Banister River W.M.A	10	...	...	...	...	88	152	...	...	2
30. Lynchburg	14	...	...	...	...	162	366	7	...	21
31. Chatham	2	...	...	...	...	8	203	...	...	CW
32. Danville	1	...	...	...	...	91	205	...	...	2
33. Calmes Neck	4	...	...	...	...	325	869	2	...	22
34. Northern Shenandoah Valley	...	...	2	...	...	511	742	8	...	15
35. Rappahannock	4	...	...	...	...	31	70	...	...	12
36. Shenandoah N.P.-Luray	4	...	...	...	...	219	484	234	...	48
37. Big Flat Mountain	...	...	...	...	...	3	6	...	...	7
38. Rockingham County	6	...	...	...	1	192	247	4	6	26
39. Augusta County	7	...	...	...	...	398	838	51	...	6
40. Waynesboro	1	...	...	...	...	218	1348	18	...	17
41. Lexington	4	...	...	...	...	242	745	46	...	20
42. Peaks of Otter	3	...	...	...	...	...	28	...	...	7
43. Clifton Forge	4	...	...	...	...	42	115	...	...	7
44. Fincastle	3	...	...	...	...	127	367	...	...	4
45. Roanoke	2	...	...	...	...	67	150	1	...	...
46. Blacksburg	9	...	...	...	...	228	697	...	...	18
47. Giles County	4	...	...	...	...	51	255	...	...	7
48. Tazewell	2	...	...	...	...	20	85	...	...	11
49. Mt. Rogers-White Top Mt.	2	...	...	...	...	14	353	...	...	10
50. Glade Spring	12	...	4	...	...	164	724	...	...	10
51. Blackford	3	...	1	...	...	90	416	...	...	14
52. Bristol	16	...	...	...	...	150	482	...	...	3
53. Buchanan	1	...	...	...	...	8	122	...	...	2
54. Breaks Interstate Park	4	28	120	2
55. Wise County	3	53	303	6
Totals:	478	1	7	2	13	7595	30104	4991	3847	390

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	Horned Lark	Tree Swallow	Carolina Chickadee	Black-capped Chickadee	chickadee sp.	Tufted Titmouse	Red-breasted Nuthatch	White-breasted Nuthatch	Brown-headed Nuthatch	Brown Creeper
1. Chincoteague	...	190	109	...	...	38	...	...	42	7
2. Wachapreague	1	8	83	...	...	31	...	1	15	...
3. Nassawadox	28	...	39	...	...	44	...	...	21	...
4. Cape Charles	38	260	109	...	...	23	...	...	40	10
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	...	49	148	...	...	37	...	6	17	4
7. Back Bay	6	337	150	...	...	40	...	13	62	4
8. Nansemond River	...	165	170	...	...	71	...	18	19	7
9. Dismal Swamp	...	90	52	...	...	10	...	7	...	3
10. Newport News	...	...	225	...	...	109	...	27	8	18
11. Mathews	...	...	133	...	...	103	6	3	35	2
12. Williamsburg	...	...	423	...	...	364	1	125	21	14
13. Hopewell	26	...	108	...	...	50	...	21	...	9
14. Walkerton	33	...	70	...	...	53	...	16	...	11
15. Northumberland-Lancaster	2	...	76	...	...	63	...	2	3	2
16. Washington's Birthplace	100	...	33	...	...	75	...	7	...	...
17. Brooke	...	...	120	...	...	128	...	41	...	5
18. Fort Belvoir	...	...	692	...	...	579	...	297	...	33
19. Central Loudon	257	...	321	...	...	243	...	132	...	12
20. The Plains	...	...	302	...	...	196	...	142	...	12
21. Manassas-Bull Run	...	...	422	...	...	349	...	242	...	10
22. Nokesville	132	...	83	...	...	53	...	22	...	6
23. Chancellorsville	...	...	70	...	...	67	...	26	...	2
24. Lake Anna	...	...	15	...	...	35	...	9	...	1
25. Gordonsville	...	...	27	...	...	54	1	15	...	1
26. Charlottesville	...	...	175	...	...	185	...	127	...	5
27. Warren	...	...	57	...	...	60	...	29	...	2
28. Darlington Heights	40	...	33	...	...	64	...	13	...	4
29. Banister River W.M.A	3	...	60	...	...	68	...	11	2	8
30. Lynchburg	...	...	136	...	...	171	1	78	...	4
31. Chatham	...	...	7	...	...	9	...	3	...	1
32. Danville	...	...	52	...	...	48	...	9	...	2
33. Calmes Neck	140	...	291	...	...	198	1	139	...	14
34. Northern Shenandoah Valley	23	...	278	...	...	193	1	133	...	8
35. Rappahannock	...	...	19	...	...	42	...	10	...	1
36. Shenandoah N.P.-Luray	51	...	129	...	...	109	1	57	...	8
37. Big Flat Mountain	...	...	39	...	...	32	...	27	...	3
38. Rockingham County	354	...	62	6	14	65	...	39	...	6
39. Augusta County	35	...	177	...	...	126	...	51	...	7
40. Waynesboro	12	...	124	1	...	124	9	58	...	1
41. Lexington	...	...	155	8	59	182	3	75	...	1
42. Peaks of Otter	...	...	19	1	...	11	...	16	...	...
43. Clifton Forge	...	...	21	16	...	17	...	13	...	...
44. Fincastle	...	...	91	...	...	62	...	21	...	1
45. Roanoke	...	...	46	12	...	54	...	20	...	2
46. Blacksburg	65	...	291	...	...	296	...	156	1	14
47. Giles County	...	...	86	...	2	86	2	44	...	2
48. Tazewell	21	...	18	...	...	23	...	9	...	...
49. Mt. Rogers-White Top Mt.	...	...	17	...	2	17	1	4	...	...
50. Glade Spring	10	...	99	...	...	69	...	38	...	2
51. Blackford	...	...	21	...	...	39	...	18	...	...
52. Bristol	...	...	105	...	...	74	1	25	...	...
53. Buchanan	...	...	13	6	...	19	...	8	...	...
54. Breaks Interstate Park	11	...	53	27	2	15	...	2
55. Wise County	11	...	85	47	...	33	...	1
Totals:	1399	1099	6739	50	77	5332	30	2451	286	272

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	House Wren	Winter Wren	Sedge Wren	Marsh Wren	Carolina Wren	Golden-crowned Kinglet	Ruby-crowned Kinglet	Eastern Bluebird	Swainson's Thrush	Hermit Thrush
1. Chincoteague	7	20	2	4	132	44	16	66	...	66
2. Wachapreague	...	1	1	...	40	2	10	377	...	10
3. Nassawadox	3	6	1	1	56	16	8	104	...	18
4. Cape Charles	29	7	2	2	193	70	60	132	1	70
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	1	7	...	1	52	49	35	46	...	8
7. Back Bay	8	8	3	4	135	61	62	146	...	22
8. Nansemond River	1	7	...	1	143	36	48	109	...	27
9. Dismal Swamp	...	10	...	...	68	24	39	18	...	45
10. Newport News	...	5	...	5	112	40	46	98	...	13
11. Mathews	3	3	2	1	85	17	17	395	...	26
12. Williamsburg	1	18	...	3	186	46	145	314	...	53
13. Hopewell	4	23	...	...	97	45	101	57	...	19
14. Walkerton	2	27	...	...	84	67	39	159	...	77
15. Northumberland-Lancaster	4	1	...	...	80	30	27	157	...	19
16. Washington's Birthplace	...	6	...	...	95	38	44	40	...	39
17. Brooke	...	7	...	...	115	53	21	176	...	23
18. Fort Belvoir	CW	52	...	...	501	265	97	389	...	172
19. Central Loudon	...	20	...	...	218	71	33	647	...	34
20. The Plains	...	7	...	...	337	46	37	410	...	56
21. Manassas-Bull Run	...	8	...	...	387	90	21	377	...	24
22. Nokesville	...	4	...	...	101	28	17	157	...	11
23. Chancellorsville	...	2	...	...	24	47	16	135	...	10
24. Lake Anna	...	2	...	...	24	7	2	81	...	6
25. Gordonsville	...	...	...	...	45	15	8	85	...	4
26. Charlottesville	...	28	...	...	277	59	59	289	...	75
27. Warren	...	5	...	...	75	22	21	131	...	31
28. Darlington Heights	...	14	...	...	51	34	11	134	...	35
29. Banister River W.M.A	...	29	...	...	76	33	49	122	...	58
30. Lynchburg	...	8	...	...	126	36	12	217	...	9
31. Chatham	...	2	...	...	5	2	...	51	...	3
32. Danville	...	4	...	...	57	30	16	171	...	3
33. Calmes Neck	1	17	...	...	193	26	16	360	...	16
34. Northern Shenandoah Valley	1	5	...	...	132	45	24	460	...	42
35. Rappahannock	...	4	...	...	39	7	12	63	...	16
36. Shenandoah N.P.-Luray	...	8	...	...	79	34	11	177	...	11
37. Big Flat Mountain	...	13	...	...	16	51	...	3	...	6
38. Rockingham County	...	6	...	...	65	39	7	178	...	2
39. Augusta County	...	9	...	...	128	42	4	145	...	4
40. Waynesboro	...	5	...	...	45	8	4	153	...	...
41. Lexington	...	6	...	...	145	52	14	183	...	24
42. Peaks of Otter	...	1	...	...	7	...	2	9	...	1
43. Clifton Forge	...	1	...	...	14	10	1	41	...	3
44. Fincastle	...	1	...	...	64	11	6	177	...	7
45. Roanoke	...	1	...	...	67	7	5	77	...	1
46. Blacksburg	...	23	...	...	207	80	5	259	...	2
47. Giles County	...	11	...	...	45	18	1	91	...	3
48. Tazewell	...	...	...	...	12	9	...	29	...	1
49. Mt. Rogers-White Top Mt.	...	2	...	...	10	6	1	40	...	1
50. Glade Spring	...	3	...	...	61	28	4	165	...	4
51. Blackford	2	1	...	...	14	...	1	38	...	...
52. Bristol	...	9	...	...	59	35	13	139	...	4
53. Buchanan	...	1	...	...	8	8	...	3	...	CW
54. Breaks Interstate Park	...	6	18	38	2	21	...	3
55. Wise County	...	3	28	14	...	33	...	2
Totals:	67477	11	22	5433	1991	1250	8634	1	1219	

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	American Robin	Gray Catbird	Brown Thrasher	Northern Mockingbird	European Starling	American Pipit	Cedar Waxwing	Lapland Longspur	Snow Bunting	Black-and-white Warbler
1. Chincoteague	319	43	35	58	1182	...	12	...	...	...
2. Wachapreague	1665	9	3	50	4782	...	77	...	...	...
3. Nassawadox	2727	23	...	36	984	...	16	...	...	...
4. Cape Charles	157	41	10	86	1124	2	84	...	2	...
5. Chesapeake Bay	...	...	...	...	...	...	...	...	...	...
6. Little Creek	1823	2	16	29	711	...	121	...	...	...
7. Back Bay	5024	33	9	116	1320	71	50	...	...	...
8. Nansemond River	10657	6	38	101	1176	278	700	...	6	...
9. Dismal Swamp	1293	57	...	21	31	2	71	...	...	...
10. Newport News	959	9	32	96	1087	1	61	...	2	1
11. Mathews	1080	3	28	85	1020	...	354	...	...	...
12. Williamsburg	785	6	30	84	991	3	582	...	...	...
13. Hopewell	1353	...	11	40	406	2	360	...	...	1
14. Walkerton	810	3	21	38	1237	178	561	...	...	...
15. Northumberland-Lancaster	524	1	2	37	297	1	196	...	...	...
16. Washington's Birthplace	295	6	3	35	351	40	186	3	...	...
17. Brooke	438	2	3	35	6027	...	191	...	...	...
18. Fort Belvoir	2488	4	22	159	2346	3	1449	...	...	...
19. Central Loudon	7011	1	4	281	5142	3	579	...	...	...
20. The Plains	3560	...	1	127	1431	...	803	...	...	...
21. Manassas-Bull Run	7539	1	...	98	6552	...	777	...	...	...
22. Nokesville	7159	...	1	33	6515	...	703	...	...	...
23. Chancellorsville	384	...	...	23	430	...	398	...	...	...
24. Lake Anna	163	...	...	8	50	...	112	...	...	...
25. Gordonsville	522	...	...	44	571	...	293	...	...	...
26. Charlottesville	1649	3	3	71	1684	...	619	...	...	...
27. Warren	208	...	3	37	365	...	168	...	...	...
28. Darlington Heights	10761	...	1	49	193	...	332	...	...	...
29. Banister River W.M.A	4351	...	15	29	58	93	128	...	...	...
30. Lynchburg	192	...	2	64	348	30	242	...	...	...
31. Chatham	29	...	1	5	51	75	...	...	...	...
32. Danville	307	...	2	55	162	...	56	...	...	...
33. Calmes Neck	1482	9	...	101	2450	...	321	...	...	...
34. Northern Shenandoah Valley	3192	4	...	204	20287	CW	919	...	...	...
35. Rappahannock	1	...	...	21	4	...	8	...	...	...
36. Shenandoah N.P.-Luray	541	...	...	58	1517	...	62	...	...	...
37. Big Flat Mountain	...	...	...	...	...	...	...	...	...	...
38. Rockingham County	181	...	...	74	3513	6	61	...	1	...
39. Augusta County	5215	1	2	117	10772	CW	333	...	...	...
40. Waynesboro	36	3	...	60	1372	...	82	...	...	...
41. Lexington	2679	2	...	92	4140	...	136	...	...	...
42. Peaks of Otter	...	...	...	3	...	...	...	...	...	...
43. Clifton Forge	2	...	...	20	122	...	53	...	...	...
44. Fincastle	411	...	...	55	445	20	158	...	...	...
45. Roanoke	37	...	...	37	232	...	...	...	...	...
46. Blacksburg	229	1	...	97	1324	21	71	...	...	...
47. Giles County	17	...	...	22	243	...	46	...	...	...
48. Tazewell	1	...	...	9	322	...	...	...	...	...
49. Mt. Rogers-White Top Mt.	28	...	...	7	198	...	110	...	...	...
50. Glade Spring	50	1	...	82	2015	...	81	...	...	...
51. Blackford	142	...	1	22	744	...	...	...	...	...
52. Bristol	164	...	1	68	1682	...	309	...	...	...
53. Buchanan	79	...	...	1	77	...	...	...	...	...
54. Breaks Interstate Park	103	...	1	1	166
55. Wise County	6	...	1	14	320	...	6
Totals:	90828	274	302	3195	100569	829	13037	3	11	2

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	Orange-crowned Warbler	Nashville Warbler	Common Yellowthroat	Yellow Warbler	Palm Warbler	Palm Warbler (Western)	Pine Warbler	Yellow-rumped (Myrtle) Warbler	Yellow-throated Warbler	Yellow-breasted Chat
1. Chincoteague	6	1	10	3418	...	1
2. Wachapreague	1	...	...	...	102	...	11	1269	...	...
3. Nassawadox	40	...	5	1574	...	...
4. Cape Charles	11	1	1	...	133	...	20	2449	...	...
5. Chesapeake Bay
6. Little Creek	10	...	...	...	8	...	28	485	1	...
7. Back Bay	8	...	6	...	77	...	17	2364	...	...
8. Nansemond River	1	...	...	...	1	...	13	834	...	...
9. Dismal Swamp	3	...	...	...	...	...	3	52	...	...
10. Newport News	2	...	...	...	2	...	15	598	...	...
11. Mathews	17	1400	...	...
12. Williamsburg	4	...	1	...	1	...	21	1000	...	...
13. Hopewell	5	...	...	...	1	...	6	269	...	...
14. Walkerton	CW	...	...	...	8	...	14	229	...	...
15. Northumberland-Lancaster	8	245	...	...
16. Washington's Birthplace	1	190	...	...
17. Brooke	1	209	...	...
18. Fort Belvoir	1	...	...	CW	115	...	...
19. Central Loudon	217	...	...
20. The Plains	305	...	...
21. Manassas-Bull Run	1	...	...	275	...	...
22. Nokesville	90	...	...
23. Chancellorsville	3	18	...	...
24. Lake Anna	1	70	...	...
25. Gordonsville	3	67	...	...
26. Charlottesville	2	220	...	...
27. Warren	90	...	...
28. Darlington Heights	2	...	58	...	...
29. Banister River W.M.A	20	142	...	...
30. Lynchburg	1	46	...	...
31. Chatham	3	...	...
32. Danville	7	65	...	...
33. Calmes Neck	1	...	...	28	...	...
34. Northern Shenandoah Valley	249	...	...
35. Rappahannock	1	7	...	...
36. Shenandoah N.P.-Luray	112	...	...
37. Big Flat Mountain
38. Rockingham County	23	...	...
39. Augusta County	2	...	...	186	...	...
40. Waynesboro	20	...	...
41. Lexington	118	...	...
42. Peaks of Otter	4	...	...
43. Clifton Forge	15	...	...
44. Fincastle	67	...	...
45. Roanoke	2	...	...
46. Blacksburg	1	...	...	...	2	23	...	...
47. Giles County	65	...	...
48. Tazewell
49. Mt. Rogers-White Top Mt.	1	...	...	10	...	...
50. Glade Spring	1	...	...	...	...	21	...	...
51. Blackford	41	...	...
52. Bristol	1	...	...	76	...	...
53. Buchanan
54. Breaks Interstate Park	18
55. Wise County	3
Totals:	45	1	10	1	385	3	230	19454	1	1

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	Nelson's Sparrow	saltmarsh sparrow sp.	Seaside Sparrow	American Tree Sparrow	Chipping Sparrow	Clay-colored Sparrow	Field Sparrow	Fox Sparrow	Dark-eyed Junco (Slate-colored)	White-crowned Sparrow
1. Chincoteague	...	2	...	...	122	...	76	27	203	1
2. Wachapreague	2	207	...	12	10	274	2
3. Nassawadox	...	1	...	...	154	...	13	7	57	...
4. Cape Charles	5	5	4	...	83	...	51	43	161	...
5. Chesapeake Bay
6. Little Creek	...	2	...	...	39	...	1	14	119	...
7. Back Bay	159	...	25	14	9	3
8. Nansemond River	181	...	11	24	259	...
9. Dismal Swamp	21	...	...	14	86	...
10. Newport News	3	...	5	8	92	...
11. Mathews	118	...	73	11	867	...
12. Williamsburg	188	...	24	15	533	...
13. Hopewell	51	...	80	8	218	12
14. Walkerton	96	1	38	46	892	2
15. Northumberland-Lancaster	3	...	4	5	94	...
16. Washington's Birthplace	59	...	168	...
17. Brooke	14	...	5	1	402	...
18. Fort Belvoir	5	4	1	128	28	2906	16
19. Central Loudon	3	40	...	91	13	1606	28
20. The Plains	1	5	...	125	4	916	26
21. Manassas-Bull Run	3	30	...	71	6	1055	24
22. Nokesville	4	...	25	6	377	7
23. Chancellorsville	30	...	6	...	468	7
24. Lake Anna	1	...	...	...	146	4
25. Gordonsville	2	...	...	2	267	18
26. Charlottesville	28	3	135	3	364	2
27. Warren	36	...	28	...	386	21
28. Darlington Heights	37	...	145	6	520	18
29. Banister River W.M.A	81	...	21	13	303	1
30. Lynchburg	3	...	23	3	255	...
31. Chatham	1	...	3	...	13	2
32. Danville	27	...	6	2	164	...
33. Calmes Neck	1	12	1	71	4	674	88
34. Northern Shenandoah Valley	10	...	...	33	2	501	58
35. Rappahannock	3	28	...
36. Shenandoah N.P.-Luray	2	1	...	17	2	369	32
37. Big Flat Mountain	65	...
38. Rockingham County	6	CW	187	192
39. Augusta County	5	...	36	4	504	114
40. Waynesboro	64	1	414	94
41. Lexington	45	3	237	55
42. Peaks of Otter	4	...	31	...
43. Clifton Forge	8	...	8	...	69	...
44. Fincastle	1	...	17	...	145	28
45. Roanoke	3	...	5	1	85	...
46. Blacksburg	2	...	117	9	128	92
47. Giles County	34	...	123	4
48. Tazewell	20	...	51	5
49. Mt. Rogers-White Top Mt.	3	...	213	15
50. Glade Spring	5	...	74	...	132	127
51. Blackford	2	...	11	2	89	71
52. Bristol	11	3	126	35
53. Buchanan	1	...	33	...
54. Breaks Interstate Park	3	...	3	...	46	11
55. Wise County	5	...	42	...
Totals:	5	10	4	27	1810	6	1869	367	18472	1215

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	Harris's Sparrow	White-throated Sparrow	Vesper Sparrow	Savannah Sparrow	Savannah (Ipswich) Sparrow	Song Sparrow	Lincoln's Sparrow	Swamp Sparrow	Eastern Towhee	sparrow sp.
1. Chincoteague	...	1007	1	138	10	469	...	297	21	...
2. Wachapreague	...	285	...	5	...	103	...	34	1	60
3. Nassawadox	...	70	...	29	...	95	...	38	2	6
4. Cape Charles	...	376	21	95	2	371	...	124	14	...
5. Chesapeake Bay
6. Little Creek	...	245	...	8	2	103	...	4	6	...
7. Back Bay	...	218	...	44	2	302	...	194	23	...
8. Nansemond River	...	520	...	72	...	331	...	60	39	...
9. Dismal Swamp	...	163	...	4	...	26	...	10	20	...
10. Newport News	...	342	...	22	5	182	...	59	18	...
11. Mathews	...	444	...	1	...	219	...	2	16	68
12. Williamsburg	...	906	...	45	...	222	...	26	75	...
13. Hopewell	...	709	...	355	...	503	...	111	19	...
14. Walkerton	...	1339	...	74	...	354	...	43	31	...
15. Northumberland-Lancaster	...	182	...	15	...	42	...	7	20	...
16. Washington's Birthplace	...	427	...	19	...	250	...	26	43	...
17. Brooke	...	465	...	2	...	138	...	11	16	...
18. Fort Belvoir	...	4911	...	22	...	1439	1	175	176	...
19. Central Loudon	...	1461	...	4	...	539	...	55	50	230
20. The Plains	...	1512	...	13	...	838	1	73	37	...
21. Manassas-Bull Run	...	1051	...	15	...	476	...	10	45	...
22. Nokesville	...	372	...	2	...	182	...	39	16	...
23. Chancellorsville	...	163	...	10	...	36	...	1	4	...
24. Lake Anna	...	68	...	...	...	9	...	...	1	...
25. Gordonsville	...	116	...	50	...	35	...	...	6	...
26. Charlottesville	...	1063	...	2	...	377	...	18	39	...
27. Warren	...	667	...	3	...	206	...	4	9	...
28. Darlington Heights	...	373	...	31	...	93	...	2	22	...
29. Banister River W.M.A	...	398	...	10	...	167	...	32	42	...
30. Lynchburg	...	350	...	...	...	96	...	1	12	...
31. Chatham	...	36	...	6	...	8	...	1	2	...
32. Danville	...	244	...	6	...	49	...	3	19	...
33. Calmes Neck	...	742	...	6	...	239	...	19	12	...
34. Northern Shenandoah Valley	...	689	...	19	...	220	...	9	11	...
35. Rappahannock	...	359	...	3	...	159	...	5	11	...
36. Shenandoah N.P.-Luray	1	326	...	3	...	155	...	2	2	...
37. Big Flat Mountain	...	207	...	...	...	3	...	...	...	...
38. Rockingham County	...	266	...	1	...	108	...	3	8	...
39. Augusta County	...	706	...	24	...	142	...	1	8	...
40. Waynesboro	...	302	...	3	...	74	1	5	6	...
41. Lexington	...	372	...	...	...	100	...	4	12	...
42. Peaks of Otter	...	36	...	...	...	6	...	...	2	...
43. Clifton Forge	...	13	...	...	...	20	...	...	1	...
44. Fincastle	...	86	...	...	...	47	...	1	6	...
45. Roanoke	...	116	...	...	...	71	...	...	1	...
46. Blacksburg	...	349	...	5	...	217	...	4	27	...
47. Giles County	...	71	...	...	...	77	...	1	17	...
48. Tazewell	...	13	...	...	...	61	...	1	4	...
49. Mt. Rogers-White Top Mt.	...	13	...	...	...	32	...	1	6	...
50. Glade Spring	...	74	...	...	...	136	...	1	15	...
51. Blackford	...	29	...	...	...	86	...	...	5	...
52. Bristol	...	64	...	...	...	104	...	2	10	...
53. Buchanan	...	39	...	...	...	18	...	3	7	...
54. Breaks Interstate Park	...	42	...	...	...	43	...	...	8	...
55. Wise County	...	8	...	...	...	42	...	2	16	...
Totals:	1	25405	22	1166	21	10420	3	1524	1039	364

Species Counts 2017. Page 23 of 24.

	Western Tanager	Northern Cardinal	Painted Bunting	Red-winged Blackbird	Eastern Meadowlark	Rusty Blackbird	Brewer's Blackbird	Common Grackle	Boat-tailed Grackle	Brown-headed Cowbird
1. Chincoteague	...	208	...	2210	113	1	...	329	178	...
2. Wachapreague	...	94	...	2073	49	...	...	141	140	282
3. Nassawadox	...	46	...	4136	55	...	...	1455	...	151
4. Cape Charles	CW	156	...	2148	131	...	...	185	200	27
5. Chesapeake Bay
6. Little Creek	...	130	...	2810	4	...	...	20	23	17
7. Back Bay	...	107	1	7600	20	...	...	18	5	430
8. Nansemond River	...	206	...	5977	77	...	...	34	21	62
9. Dismal Swamp	...	18	...	193	5	15	...	19	...	41
10. Newport News	...	191	...	659	18	...	...	1060	...	81
11. Mathews	...	492	...	752	64	...	...	360	...	38
12. Williamsburg	1	364	1	15570	68	1	...	8769	...	55
13. Hopewell	...	169	...	851	92	51	...	120	...	113
14. Walkerton	...	265	...	39302	139	2	...	168	...	54
15. Northumberland-Lancaster	...	116	...	575	44	4	...	2	16	70
16. Washington's Birthplace	...	130	...	577	...	...	...	6	...	40
17. Brooke	...	193	...	764	24	1	...	150	...	...
18. Fort Belvoir	...	1380	...	1335	28	21	...	1807	...	284
19. Central Loudon	...	629	...	3863	...	32	...	750	...	157
20. The Plains	...	552	...	691	59	48	...	5	...	22
21. Manassas-Bull Run	...	628	...	381	15	15	...	61	...	20
22. Nokesville	...	93	...	3143	24	...	1	3	...	108
23. Chancellorsville	...	126	...	...	...	...	...	...	...	...
24. Lake Anna	...	27	...	...	...	...	...	...	...	...
25. Gordonsville	...	97	...	...	65	12	...	4	...	100
26. Charlottesville	...	346	...	65	14	...	...	130	...	...
27. Warren	...	120	...	120	48	...	...	...	...	...
28. Darlington Heights	...	134	...	285	86	...	...	5	...	6
29. Banister River W.M.A	...	175	...	156	30	49	...	...	...	...
30. Lynchburg	...	224	...	4	...	...	...	1	...	...
31. Chatham	...	24	...	...	CW	...	...	...	...	500
32. Danville	...	135	...	...	23	...	...	7	...	...
33. Calmes Neck	...	420	...	11	10	...	...	7	...	6
34. Northern Shenandoah Valley	...	377	...	396	36	25	...	38	...	75
35. Rappahannock	...	45	...	...	...	...	...	...	...	20
36. Shenandoah N.P.-Luray	...	194	...	23	2	50	...	43	...	366
37. Big Flat Mountain	...	7	...	...	...	...	...	...	...	...
38. Rockingham County	...	211	...	28	11	38	...	3500	...	487
39. Augusta County	...	363	...	54	49	...	...	2009	...	105
40. Waynesboro	...	261	...	2	...	...	...	10	...	CW
41. Lexington	...	288	...	2	16	...	...	30	...	...
42. Peaks of Otter	...	12	...	...	...	...	...	...	...	...
43. Clifton Forge	...	11	...	...	10	...	...	...	...	...
44. Fincastle	...	135	...	...	2	...	...	...	...	...
45. Roanoke	...	83	...	...	...	...	...	...	...	...
46. Blacksburg	...	311	...	7	74	12	...	1	...	...
47. Giles County	...	99	...	...	...	...	...	...	...	...
48. Tazewell	...	10	...	...	14	...	...	...	...	...
49. Mt. Rogers-White Top Mt.	...	28	...	1	...	11	...	...	...	...
50. Glade Spring	...	152	...	...	35	...	...	...	...	...
51. Blackford	...	70	...	1	...	...	...	...	...	...
52. Bristol	...	190	...	...	...	...	...	...	...	...
53. Buchanan	...	54	...	CW	...	...	...	...	...	...
54. Breaks Interstate Park	...	57	...	1	...	2	...	CW	...	...
55. Wise County	...	50	...	11	2	...	...	...	...	...
Totals:	1	11003	2	96777	1556	390	1	21247	583	3717

Species Counts 2017. Page 24 of 24.

	Baltimore Oriole	new world oriole sp.	blackbird sp.	House Finch	Purple Finch	Pine Siskin	American Goldfinch	House Sparrow	Total species	Total individuals
1. Chincoteague	4000	26	...	...	18	61	133	44019
2. Wachapreague	900	47	...	1	28	28	117	40984
3. Nassawadox	32	...	...	46	10	115	33319
4. Cape Charles	...	1	200	83	2	...	89	14	155	36772
5. Chesapeake Bay	29	15011
6. Little Creek	24	...	...	60	11	122	33347
7. Back Bay	8	...	...	46	3	...	47	2	133	32660
8. Nansemond River	2	...	...	70	...	8	65	22	123	49049
9. Dismal Swamp	33	31	...	87	3894
10. Newport News	110	...	...	96	23	114	16446
11. Mathews	116	9	1	48	51	104	16178
12. Williamsburg	7	...	...	230	...	2	180	47	119	48239
13. Hopewell	4	...	375	29	...	...	68	4	111	64006
14. Walkerton	102	...	...	112	42	99	60446
15. Northumberland-Lancaster	750	18	...	...	50	22	103	10824
16. Washington's Birthplace	2	...	31	79	98	23511
17. Brooke	48	...	...	65	28	94	28878
18. Fort Belvoir	150	277	...	2	454	524	112	86675
19. Central Loudon	274	...	...	258	247	97	46704
20. The Plains	222	...	...	351	204	92	27312
21. Manassas-Bull Run	12	400	...	...	310	268	87	33383
22. Nokesville	250	57	...	...	231	43	84	29002
23. Chancellorsville	32	...	...	13	...	71	6173
24. Lake Anna	22	...	...	34	50	57	4028
25. Gordonsville	38	...	...	66	12	77	6964
26. Charlottesville	100	1	...	191	55	74	11249
27. Warren	26	...	...	89	4	71	5599
28. Darlington Heights	34	...	...	93	4	66	15791
29. Banister River W.M.A	1	38	...	...	62	...	73	9657
30. Lynchburg	1	...	...	131	...	...	139	64	76	6616
31. Chatham	12	1	52	1472
32. Danville	73	...	...	23	34	64	3238
33. Calmes Neck	1	149	4	7	162	121	89	16734
34. Northern Shenandoah Valley	287	19	6	202	247	95	36084
35. Rappahannock	59	...	58	1626
36. Shenandoah N.P.-Luray	68	...	2	136	39	82	7808
37. Big Flat Mountain	4	...	30	565
38. Rockingham County	138	...	1	212	348	82	14097
39. Augusta County	264	...	...	199	196	87	27495
40. Waynesboro	164	...	4	166	89	89	7964
41. Lexington	163	29	...	226	5	79	12835
42. Peaks of Otter	1	...	...	2	...	33	251
43. Clifton Forge	22	...	...	63	36	60	1698
44. Fincastle	63	1	...	121	17	68	3974
45. Roanoke	53	...	...	58	6	58	2228
46. Blacksburg	132	7	2	273	44	82	10579
47. Giles County	48	7	21	107	4	64	2737
48. Tazewell	27	51	61	1478
49. Mt. Rogers-White Top Mt.	6	...	...	4	...	47	1414
50. Glade Spring	44	CW	...	179	4	71	6869
51. Blackford	12	...	...	88	22	56	2836
52. Bristol	87	...	1	132	15	84	6722
53. Buchanan	4	...	...	76	...	38	681
54. Breaks Interstate Park	3	...	CW	73	2	58	1158
55. Wise County	15	2	...	66	12	54	1427
Totals:	22	1	6639	4428	86	91	5995	3212	190	102076

BOOK REVIEW

Birds of the Central Carolinas. Donald W. Seriff. Illustrations and design by Leigh Anne Carter. 2018. Published in Partnership with The Mecklenburg Audubon Society and the Mecklenburg County Park and Recreation Department, Charlotte, NC, USA. 591 pp. Over 400 color photographs, 312 black and white illustrations, color maps. ISBN 978-0-692-05539-7. \$45.00 (hardcover).

This book is an attractive and remarkably thorough report on the 348 species of birds that have been found in a 14-county region centered on Mecklenburg County, North Carolina (NC). It not only includes everything I look for in a regional bird book, it includes things I had never thought to look for in a regional bird book. Its focus on the birds of a portion of the often-overlooked Piedmont makes it especially noteworthy.

Birders conducted a breeding bird atlas in Mecklenburg County NC in 2011-2015 and data obtained during the atlas project are at the core of this book, but it is much more than a summary of atlas data. All bird species known to have occurred in Mecklenburg County are discussed in individual species accounts, and reasonably detailed information about all other species known to have occurred in the 13 surrounding counties but not in Mecklenburg is also included. For each of the species known from Mecklenburg, the text includes a narrative account of the bird's status; a line drawing along with one or more color images of the species; a bar graph showing seasonal abundance; colorful icons that indicate at a glance the types of available data for the species; and even folk names. For species found during breeding bird atlas work, the accounts also include a map and a summary of the atlas data for the species. The book also includes a history of bird study in the Charlotte, NC area, significant bird records from the 19th and early 20th centuries, information on attracting birds, notes and a bibliography, and more. For additional context, information is also included on rarities known from the Carolina Piedmont but only documented outside the region of coverage, as well as on short lists of hypothetical and exotic species.

The team who produced this book should be commended for including three South Carolina (SC) counties (York, Chester, and Lancaster) in its coverage area. While birders routinely occupy themselves with keeping lists that are defined by political boundaries, we know, and the point has often been made, that birds do not recognize these boundaries. Anyone who knows NC geography (or looks at Google Maps) knows that Mecklenburg County is on the southern NC border, so including some SC counties

in the book's area of coverage makes sense even though this meant some sort of conceptual crossing of the state line in its preparation. The total area covered is described as "almost 7,000 square miles" of Carolina Piedmont; for comparison, the land area of the Delmarva peninsula is a little less than 6000 square miles.

This book sets a high standard for regional avifaunal guides due to the information included, and its design makes it a pleasure to read. Full color is used throughout, and images are clearly labeled. Even the endpapers, featuring details from an 1877 map of Charlotte, are attractive. In a time when much ornithological data is being relegated to Internet-only publication, it is refreshing to see that a useful, attractive book of this magnitude can still be produced. It is a model for future works, especially for those of us living in nearby states. Virginia has never had a comparable work produced about the birds of any region of our commonwealth, but spending time with this book leads me to imagine what a book about, say, coastal Virginia birds or Richmond area birds, much less our forthcoming breeding bird atlas, might look like. Such a volume would be both a valuable resource and a delight to own and read, just as this one is.

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INFORMATION FOR CONTRIBUTORS

The Raven, the official journal of the Virginia Society of Ornithology (VSO), functions to publish original contributions and original review articles in ornithology relating to Virginia Birdlife. Electronic files are the required form for manuscript submission. Text files, prepared using a Mac OS-compatible word processing program or Microsoft® Word, should contain minimal formatting. Graphics (photos, maps, graphs, charts) should be sent as high quality EPS or JPEG files. An accompanying "cover letter" file should be emailed to the editor stating (1) article title, (2) author(s) full name(s) and email and home or institutional address(es) and, for multi-authored manuscripts, (3) the name of one author designated to carry out correspondence with the editor. If the manuscript or report is technical, a list of persons who would be appropriate reviewers should also be included in the "cover letter" file. Authors are encouraged to consult with the editor on additional matters of content, format, or style.

Most Manuscripts published in *The Raven* concern the distribution, abundance and migration of birds in Virginia. However, if there is evidence of summer residency in Virginia provided, manuscripts describing the distribution, abundance, life history, ecology and behavior of Virginia's migrant birds on their wintering grounds are also welcome. Manuscripts on other ornithological topics, including Virginia-based historical reviews, bibliographical reviews, life histories, and behavioral observations, are also welcomed. In addition, the journal serves to publish the official proceedings of the VSO and other formal items pertaining to all aspects of the Society's activities. *The Raven* may also publish articles pertaining to the activities of various public and private organizations engaged in biological and conservation work in Virginia. *The Raven* is a peer-reviewed journal; all feature articles and short communications are reviewed before a decision about acceptance for publication is made.

Format of *The Raven* generally follows guidelines set by the Council for Biology Editors as outlined in the *CBE style manual, 6th edition, 1994* (Council of Biology Editors, Inc., 11250 Roger Bacon Dr., Reston, VA 20190). Recent volumes of *The Raven* should be inspected for style. Vernacular and scientific names of birds should be those in the most recent edition (and supplement) of the A.O.U.'s Check-list of North American Birds (www.aou.org/checklist/north). Scientific names should be italicized. All size, temperature and other measurements should be in metric units.

