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South Dakota

Bird  Notes

South Dakota Ornithologists' Union

Lincoln's Sparrow, Sioux Falls, October 1, 2023

*Photo Credit: Ike Curley*

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Associate Editors/Proofreaders:.....Bill Draeger, Sioux Falls  
Linda Johnson, Sioux Falls  
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# SOUTH DAKOTA ORNITHOLOGISTS' UNION

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## President's Page

*Mark Schmidtbauer*

While driving around Sioux Falls, I mostly see yards and city parks with mowed grass, manicured shrubs and neatly trimmed trees. Although not entirely poor habitat for some birds, the homogeneous lawns and lack of weeds, brush and dead trees in these urban landscapes are not ideal for most birds. Likewise, when driving around the countryside of southeastern South Dakota, the dominant types of vegetation are fields of corn and soybeans, which provide almost no benefit to birds. Many years ago, in the first part of the last century, homesteaders left some of the land free from the plow, saving some natural areas. They probably did this inadvertently, but these pastures, shelterbelts, meadows and ponds were all part of the small farms of the day. Many birds of this time were able to habituate these natural areas either year-round or as a stopping point during migration, making them increasingly valuable for the birds' survival.

Since then, the countryside landscape has changed from the small farms that had a variety of land uses to the large farms now that predominantly grow row crops. By ripping out trees, draining wetlands and tilling as much land as possible for crops, people have destroyed a lot of the last remaining habitat for birds. This assault on bird life has been staggering, with 2.9 billion breeding birds lost since 1970 according to the journal *Science* (Sept 2019). By not having enough regulation and laws in place to preserve wild areas, expanding cities and farms have run roughshod over habitat that is so crucial to birds. In areas where birds can find suitable habitat, cities and farms often spray insecticides on their parks, trails and fields, severely limiting the number of insects available for birds to eat and feed their young. Using insecticide also indiscriminately kills pollinator insects, jeopardizing plants that need these insects for pollination, thereby reducing the production of a plant's berries and fruits that some birds rely on for food.



But not everything is hopeless for birds. There is a push in some cities to change code to allow vegetation other than mowed grass in the boulevards and yards resulting in better habitat. Some cities are going away from the practice of having all mowed grass in their parks by planting native prairie grasses instead. There is a valiant effort by a river restoration group, Friends of the Big Sioux River, to clean up the Big Sioux River that flows through eastern South Dakota. This river flows southerly through agricultural land and cities picking up pollutants, until its confluence with the Missouri River. The Big Sioux's main pollutants are suspended solids from erosion, *E. coli* from animal waste, and nitrates from fertilizers. To attain a cleaner river, farmers, businesses and homeowners must do their part. Homeowners with yards and lawns must minimize or stop using fertilizers, salts and pesticides. Farmers that have fields adjacent to the river need to establish buffer zones of native grasses to mitigate field water run-off and keep their cattle fenced off from wading in the river. There are government land programs for farmers to help offset their potential loss of revenue when implementing these improved land use practices. Farmer participation in these programs, along with everyone doing their part to not contaminate the watershed, is critical for improving the river's health. All these efforts to rehabilitate degraded land and restore rivers are key to start reversing the downward trend of bird populations.

We as bird watchers have a vested interest in seeing birds thrive and we can do more than just feed, watch and checklist birds. The reason these positive changes for rivers and lands are happening is because citizens want to see improved care of the environment and are getting involved to make it happen. Citizens are helping

to make better habitat for birds and wildlife by voting for candidates in local, regional and national public elections who value the importance of the natural environment. Citizens are also joining conservation organizations that are actively involved in improving habitat for wildlife. Attending local government meetings and speaking with, or writing to, officials about issues that will impact wildlife and natural areas is also important. Let the decision makers know the consequences if they do not recognize the value of the natural world. A direct way to help birds is to enhance your yard and gardens by establishing native plants, minimizing mowed lawns and leaving areas of brush and weeds where possible. There is plenty of information readily available from sources on how to do this and the results can make your yard a respite for birds. Trees, birds and animals can't stand up for themselves, so speaking up and acting on their behalf is one way to help protect wildlife and natural areas. Every action by each of us to help the plight of birds can collectively spur positive change for an improved future.

## ANNOUNCEMENTS

The 2024 spring meeting will be May 31 – June 2, 2024 at the Custer County Library in Custer. Note that this is also the weekend of the very popular Crazy Horse Monument Volksmarch so SDOU meeting attendees should lock in their lodging as soon as possible. There are many hotels, motels, cabins, VRBOs, and campgrounds within 4 miles of Custer. Search online and/or the Custer Chamber of Commerce to look for lodging.

Speaking of meetings, did you know that SDOU members can access and read the minutes of General Membership and Board meetings on the *SDOU.org* website? Sign into your account, select 'Members Only Section' and then 'Meeting Minutes'.



## SDOU 2023 Fall Meeting, Vermillion

*by Nancy Drilling*

The 2023 Fall biannual meeting of the South Dakota Ornithologists' Union was held September 29-October 1 on the University of South Dakota campus in Vermillion. Almost 40 attendees enjoyed guest speakers, morning field trips, presentations on current bird research in the state, and the SDOU General Membership and Board of Directors meetings.

Events started Friday evening with a presentation by Jan and Gary Small of Vermillion, who showed photos and told travel stories from a recent birding trip to Columbia. The Smalls have made several birding trips to the country; this recent trip focused on central Columbia and the west border. Birds in these areas include shrub, ranch, and riverine species.

Saturday and Sunday field trips visited local birding spots in the Vermillion and west Sioux Falls area. These included Spirit Mound, Alabama Bend, Wall Lake and Dewey Gevik Natural Area, Lake Vermillion, and Union Grove State Park. Songbird migration was still in full swing and birders reported 110 species for the weekend, including a variety of shorebirds, waterbirds, wrens, sparrows, and warblers. A table at the end of this article lists all of the species; this list is also posted on the *SDOU.org* website under the Meetings tab.



As is the tradition at the Fall meeting, most of Saturday was devoted to oral presentations by students and other ornithologists on various research topics. Three University of South Dakota professors gave presentations. Dr. Holly Straub, emeritus professor from the Department of Psychology, spoke about the Galapagos Islands and El Nino, while Dr. Andrea Liebl of the Department of Biology presented the results of her research on how invasive House Sparrows are able to spread. Dr. David Swanson of the Department of Biology concluded with his analysis of the range expansion of Eastern Meadowlarks in South Dakota (see also the summer 2023 issue of SD Bird Notes). Two returning graduate students updated the audience on their research. Nadeesha Illeperuma spoke on the impacts of red cedar invasion on riparian birds while Chelsi Marolf presented the latest results of her research on House Sparrow metabolic rates and tissue mass response to fluctuating cold. Emily Macklin, a new graduate student at South Dakota State University, introduced her project on the impacts of land management on Pinyon Jays in Colorado. Reza Goljani-Amirkhiz, a USD alumnus, explained his modelling investigations to predict the influence of climate change and land cover on grassland bird abundance. Finally, educator Kelly Preheim from Armour spoke on the rationale and impacts of her efforts to instill bird and science literacy in her kindergarten students.



After a long day of birding, informative talks, and good food, the Saturday evening banquet speaker was Anna Buckhardt Thomas, an Avian Ecologist from the Iowa Department of Natural Resources. As explained by SDOU president Mark Schmidtbauer in his President's Page (*spring 2023 issue of SD Bird Notes*), there is a proposal to establish a network of Motus Towers for bird tracking in South Dakota. The towers record whenever a bird carrying a Motus tracking device flies by, aiding in our knowledge of bird movements (see [motus.org](http://motus.org) for more details). Ms. Thomas leads the Motus Network for bird tracking in Iowa. The Iowa project currently has 19 towers spread across the state; 16 established by the Iowa DNR and three set up by others. Anna explained that most of the DNR towers are at county Conservation Districts' parks, allowing for a reasonably good distribution around the state. Although there are no in-state Motus bird tracking projects yet, the Iowa stations are recording the passage of birds from projects around North America. The presentation left the audience even more eager to have a similar network in South Dakota.



At the SDOU General Membership Meeting, members voted for five Board Members who began a new three-year term at the Fall meeting. They are Maggie Figura of Sioux Falls, Ron Mabie of Pickstown, Cheryl Vellenga of Sisseton, Duane Weber of Custer, and Mick Zerr of Sioux Falls. At the Board meeting, board members elected officers for 2024. Mark Schmidtbauer of Brandon will continue to be President, Chris Anderson of Sioux Falls is Vice-president, Bob Bork of Sioux Falls is Treasurer, David Swanson of Vermillion is Secretary and Mick Zerr of Sioux Falls is Librarian.

The next SDOU meeting will be May 28 – June 2, 2024 in Custer.

Bird species recorded during the 2023 Fall meeting in Vermillion. Observations include those in Clay, Yankton, Turner, Lincoln, and Union counties.

Canada Goose  
Wood Duck  
Blue-winged Teal  
Northern Shoveler  
American Wigeon  
Mallard  
Northern Pintail  
Green-winged Teal  
Ring-necked Duck  
Ring-necked Pheasant  
Wild Turkey  
Pied-billed Grebe  
Rock Pigeon  
Eurasian Collared-Dove  
Mourning Dove  
Ruby-throated Hummingbird  
Sora  
American Coot  
Black-bellied Plover  
Semipalmated Plover  
Killdeer  
Baird's Sandpiper  
Least Sandpiper  
Wilson's Snipe  
Solitary Sandpiper  
Lesser Yellowlegs  
Greater Yellowlegs  
Franklin's Gull  
Ring-billed Gull  
Forster's Tern  
Double-crested Cormorant  
American White Pelican  
Great Blue Heron  
Great Egret  
White-faced Ibis  
Turkey Vulture  
Osprey

Bald Eagle  
Northern Harrier  
Sharp-shinned Hawk  
Cooper's Hawk  
Broad-winged Hawk  
Swainson's Hawk  
Red-tailed Hawk  
Eastern Screech-Owl  
Great Horned Owl  
Belted Kingfisher  
Red-headed Woodpecker  
Red-bellied Woodpecker  
Yellow-bellied Sapsucker  
Downy Woodpecker  
Hairy Woodpecker  
Northern Flicker  
American Kestrel  
Merlin  
Eastern Phoebe  
Red-eyed Vireo  
Blue Jay  
American Crow  
Tree Swallow  
Barn Swallow  
Horned Lark  
Black-capped Chickadee  
White-breasted Nuthatch  
House Wren  
Sedge Wren  
Marsh Wren  
Ruby-crowned Kinglet  
Eastern Bluebird  
Swainson's Thrush  
American Robin  
Gray Catbird  
Brown Thrasher  
European Starling

Cedar Waxwing  
House Sparrow  
House Finch  
Red Crossbill  
Pine Siskin  
American Goldfinch  
Spotted Towhee  
Chipping Sparrow  
Clay-colored Sparrow  
Field Sparrow  
Vesper Sparrow  
Lark Sparrow  
Savannah Sparrow  
Grasshopper Sparrow  
LeConte's Sparrow  
Song Sparrow  
Lincoln's Sparrow  
Swamp Sparrow  
White-throated Sparrow  
Harris's Sparrow  
White-crowned Sparrow  
Dark-eyed Junco  
Eastern Meadowlark  
Western Meadowlark  
Red-winged Blackbird  
Brown-headed Cowbird  
Common Grackle  
Tennessee Warbler  
Orange-crowned Warbler  
Nashville Warbler  
Common Yellowthroat  
Yellow-rumped Warbler  
Black-throated Green Warbler  
Northern Cardinal  
Indigo Bunting  
Dickcissel



## Fall Season Bird Photos

*Compiled by Kelly Preheim*

In addition to our cover photos, the following are a selection of photos taken in South Dakota during fall 2023, followed by additional photos taken at the SDOU fall meeting. All photos reproduced with permission of the photographers.



Surf Scoter, Fort Randall Dam, October 7, 2023.  
Photo by Kelly Preheim



Ruffed Grouse, Lawrence County, October 4, 2023.  
Photo by David Hill



Sora, Springfield area, September 8, 2023.  
Photo by Randy Hoeck



Swainson's Hawk, Yankton area, October 4, 2023.  
Photo by Randy Hoeck



Osprey, Dewey Gevik Natural Area, October 1, 2023.  
Photo by Dale Nordie





Red-headed Woodpecker, Farm Island, September 22, 2023.  
Photo by Aileen Brunner



Mountain Bluebird, Custer State Park, September 29, 2023.  
Photo by Mark O'Loughlen



Dark-eyed Junco, Mitchell, October 24, 2023.  
Photo by Lonnie Wiese



Nashville Warbler, Vermillion area, October 4, 2023.  
Photo by Roger Dietrich



Yellow-rumped Warbler, Mitchell, October 20, 2023.  
Photo by Lonnie Wiese



Yellow-headed Blackbird flock, Pierre area, September 24, 2023.  
Photo by Ron Duvall



Birding at North Alabama Bend, Clay County, during the fall SDOU meeting. Photos by Kelly Preheim.



Union Grove birding during the fall SDOU meeting. Photos by Kelly Preheim.



Spirit Mound during the fall SDOU meeting. Photos by Mick Zerr.



## Annotated List of Recent Research Publications on South Dakota Non-Game Birds

*Compiled by Nancy Drilling*

In this article, we highlight recent scientific publications that used, at least in part, data collected on non-game birds in South Dakota. Follow the links to access the original publication or type the name of the article into a search engine such as Google Scholar. Note that some publications are free to download while for others, you must pay for access to the full article.

## Patterns and potential causes of changing winter bird distributions in South Dakota

David L. Swanson, Reza Goljani Amirkhiz, and Mark D. Dixon. *The Prairie Naturalist* 52 (2020):45-57

<https://www.eaglehill.us/prna-pdfs-regular/PRNA-52-2.pdf>

The authors used bird records in the SDOU online bird reporting system to evaluate the evidence for a relationship between warmer winters and bird winter distributions. They looked at the 1974 - 2017 winter distributions of three short-distance migrants (Hermit Thrush, Yellow-rumped Warbler, Fox Sparrow) compared to distributions of three vagrants (American Black Duck, Townsend's Solitaire, Varied Thrush). They found that the three short-distance migrants showed marked recent increases in the number of winter records in South Dakota, while for the vagrants, only Townsend's Solitaire has increased. Early winter temperatures correlated positively with increased probability of occurring in South Dakota for Hermit Thrush, Yellow-rumped Warbler, and American Black Duck. According to the authors, these results "suggest that all three study species are expanding their ranges northward in the north-central United States during a period of winter warming, but other factors in addition to winter temperature are also influencing this trend."

## Declines of Black-Billed Magpie (*Pica hudsonia*) and Black-Capped Chickadee (*Poecile atricapillus*) in the North-Central United States following the invasion of West Nile Virus

Stephen J. Brenner and Joel G. Jorgensen. *Western North American Naturalist* 80 (2020), 204-214.

<https://birds.outdoornebraska.gov/wp-content/uploads/2020/06/80.2.8-Brenner-Jorgensen-Magpie-declines.pdf>

Bird species vary in their susceptibility to West Nile virus (WNV) and the virus can cause regional population declines in very susceptible species. In addition, higher WNV transmission is associated with dry areas with warm winters. The authors used Christmas Bird Count data to investigate changes in winter species abundance before and after the introduction of WNV in the north-central United States. They looked at distributions of two susceptible species, Black-billed Magpie and Black-capped Chickadee and two non-susceptible species, White-breasted Nuthatch and Blue Jay, in four regions (east Great Plains, central Great Plains, Front Range, and Mountain West). Magpie winter abundance was significantly lower in the Great Plains than projected abundances. Chickadee abundances reached their lowest counts ever immediately after the arrival of WNV. Both species have been declining in the Great Plains for over 30 years and WNV is likely a contributing factor. At the same time, abundances of Blue Jays and White-breasted Nuthatches did not show any changes.

## Mid-summer arrival by Blue Grosbeaks at the northern extent of their breeding range: evidence for dual breeding?

David L. Swanson and Reza Goljani Amirkhiz. *Journal of Field Ornithology* 92(2021), 127-142.

<https://onlinelibrary.wiley.com/doi/abs/10.1111/jof.12367>

As previously reported in *South Dakota Bird Notes*, Blue Grosbeaks (*Passerina caerulea*) appear to increase in numbers as the summer progresses in South Dakota (SDBN 71(1):4-5; SDBN 71(2):27-28; SDBN 71(3):47). The authors used three sources of data (SDOU database, eBird observations, 2019-2020 Blue Grosbeak surveys) to further document this observation and explore possible reasons. They found that in eastern and central, but not western, South Dakota, grosbeak numbers peaked in July and more than half of the breeding population arrived after mid-June. Furthermore, grosbeak numbers decreased through the summer in the southern part of their breeding range (Texas and Oklahoma). Possibly, failed early breeders move north to reneest. Alternatively, Blue Grosbeaks in central North America may have a dual breeding strategy, raising a first brood in the south and a second brood in the north. If the latter is true, this would be the first documentation of a south-then-north dual breeding pattern in North America.

## Avian community response to Eastern Red Cedar (*Juniperus virginiana*) encroachment in eastern South Dakota

Holm, Jay D., Austin Domeier, Alexander Smart, and Lan Xu. *Proceedings of the South Dakota Academy of Science* 100(2021):128

<https://sdaos.org/publication/avian-community-response-to-eastern-red-cedar-juniperus-virginiana-encroachment-in-eastern-south-dakota-authors-jay-d-holm-austin-domeier-alexander-smart-and-lan-xu-year-2021-volume-100-pag/>

In the Northern Great Plains, Eastern Red Cedar (ERC) (*Juniperus virginiana* L.) is a rapidly spreading invasive woody species that has altered landscapes and habitats. In particular, ERC encroachment converts grassland into woodland, which may negatively impact grassland-reliant bird species. In this study, the authors documented the avian community in encroached and non-encroached grasslands in South Dakota. They conducted point count bird surveys in July 2021 at six ERC-encroached grassland sites and six non-encroached grassland sites in eastern South Dakota. Overall, they recorded 47 species, 32 in non-encroached sites and 42 in encroached sites. Non-encroached sites were dominated by grassland-reliant species such as Sedge Wren (*Cistothorus platensis*), Bobolink (*Dolichonyx oryzivorus*), Western Meadowlark (*Sturnella neglecta*), and Dickcissel (*Spiza americana*), while encroached sites were dominated by woodland/shrub species such as Clay-colored Sparrow (*Spizella pallida*), American Goldfinch (*Spinus tristis*), Eastern Kingbird (*Tyrannus tyrannus*), and Brown-headed Cowbird (*Molothrus ater*). These results show that ERC encroachment impacts avian grassland community composition, amplifying the importance of active management to slow or prevent the spread of ERC.

## Vegetation associations of riparian birds in successional woodlands along the regulated Missouri River

Merkord, Christopher L., Amin Rastandeh, Adam Benson, Mark D. Dixon, and David L. Swanson. *Avian Conservation and Ecology* 18(2023):9

<https://ace-eco.org/vol18/iss2/art9/>

Riverine habitat and vegetation has changed drastically as a result of 60 years of water regulation by dams on the upper Missouri River, with decreases in early and increases in older forest communities, and higher occurrence of invasive upland tree species. This study explores the influence of riverine forest successional stage, species composition, and forest structure on breeding bird biodiversity along the Missouri River in eastern South Dakota and Nebraska. The researchers conducted breeding bird surveys and recorded a variety of habitat measurements in 2009 and 2010 along two stretches of unchanneled river between the Fort Thompson dam and Ponca, Nebraska. They identified 11 bird species that had highest abundances in early successional habitats (young cottonwood-willow, Russian Olive) and 19 bird species with highest abundances in older forests (mid- to late-aged cottonwood and non-cottonwood forests). Notably, early successional bird species were equally abundant in native cottonwood-willow stands as in non-native Russian Olive stands, suggesting that management efforts to remove Russian Olive may impact this group of birds. Some forest species, such as Baltimore Oriole, showed a preference for cottonwood and an avoidance of Red Cedar, while other forest species did not. The authors note that “these data suggest that the trends in riparian forest change due to river regulation along the middle Missouri River may produce a mix of positive and negative effects on riparian bird species.” Finally, in comparing the results of this study with those of similar studies in other parts of the western U.S., the authors found differences among studies, suggesting that “the relationship between bird species richness and vegetation succession in riparian habitats is difficult to generalize and may be dependent on the specific riparian systems and bird communities involved. Such a conclusion complicates management of riparian systems for bird species richness and diversity and highlights the need for local information in developing specific management plans.”

## Arthropod prey and diets of woodland migrants are similar between natural riparian woodlands and anthropogenic woodlots in the northern prairie region

Liu, Ming, Patrick G. Kinnicutt, and David L. Swanson. *Avian Conservation and Ecology* 17(2022): 45

<https://ace-eco.org/vol17/iss2/art45/>

Ming Lui's doctoral research at University of South Dakota focused on the relative quality of natural riparian woodland corridors and planted shelterbelts as stopover sites for spring and fall migrant songbirds in south-east South Dakota. In this part of his research, Ming compared insect prey abundance and insect-eating migrant songbird diets in the two habitat types. He found no consistent differences in insect numbers or biomass between corridors and shelterbelts in three years of sampling. Analysis of bird fecal samples showed that migrant songbird diets in both habitats mainly consisted of beetles (Coleoptera), flies (Diptera), and true bugs (Hemiptera) in the fall, and bees and wasps (Hymenoptera), beetles, and flies in the spring. He concludes that "these data collectively suggest that arthropods were present in sufficient abundance and diversity at both corridors and woodlots for migrant birds to successfully refuel at these riparian stopover sites."

## Investigating niches and distribution of a rare species in a hierarchical framework: Virginia's Warbler (*Leiothlypis virginiae*) at its northeastern range limit

Goljani Amirkhiz, Reza, Mark D. Dixon, Jeffery S. Palmer, and David L. Swanson. *Landscape Ecology* 36 (2021): 1039-1054.

<https://link.springer.com/article/10.1007/s10980-021-01217-7>

Understanding the habitat needs and limitations of rare species is often complicated by a paucity of field observations upon which to base analyses. The authors tested a statistical approach to solve this dilemma using data from occurrence records of Virginia's Warbler in the Black Hills. They looked at the suitability of habitat at multiple scales (the hierarchical framework), defining suitable habitat at the broadest scale as a function of bioclimatic variables and at finer scales as functions of landcover, soil group and landscape variables. They found that at the broadest scale, Black Hills Virginia's Warblers occur in a narrow range of climatic conditions. At finer (smaller) scales, different variables were important, depending on the scale. The researchers conclude that this approach "can lead to detailed information about rare species' niches, limiting factors at each habitat selection order, and potential distribution, which could help inform multiscale management."

## Comprehensive estimation of spatial and temporal migratory connectivity across the annual cycle to direct conservation efforts

Elly C. Knight, Autumn-Lynn Harrison, Amy L. Scarpignato, Steven L. Van Wilgenburg, Erin M. Bayne, Janet W. Ng, Emily Angell, R. Bowman, R. Mark Brigham, Bruno Drolet, Wendy E. Easton, Timothy R. Forrester, Jeffrey T. Foster, Samuel Haché, Kevin C. Hannah, Kristina G. Hick, Jacques Ibarzabal, Tara L. Imlay, Stuart A. Mackenzie, Alan Marsh, Liam P. McGuire, Gretchen N. Newberry, David Newstead, Andrea Sidler, Pam H. Sinclair, Jaime L. Stephens, David L. Swanson, Junior A. Tremblay and Peter P. Marra. *Ecography* 44(2021): 665-679

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/ecog.05111>

Threats to migratory birds are often well-studied on their breeding grounds, but much less is known about what threats occur during other parts of the year. This research examined the migration phase of the annual cycle of the Common Nighthawk (*Chordeiles minor*), a widespread, declining, long-distance migrant. This species is doing well in some parts of its breeding range but has experienced sharp population declines in other areas, leading to the question of whether the birds are being negatively impacted on the breeding grounds,

wintering grounds, or migration. The researchers attached GPS tags to 52 birds from 12 breeding populations, including six birds from eastern South Dakota, and tracked their migration. South Dakota nighthawks fly southeast towards the Gulf Coast of Florida in the fall, then join other Common Nighthawks to fly south across the Gulf of Mexico and a narrow corridor through the Colombian Andes, and then into central Brazil. The birds retrace their steps to return in the spring. Common Nighthawks from different breeding populations tend to migrate separately while migrating through North America (high migratory connectivity) but start to mix while in Central and South America (low migratory connectivity) because of a common migratory route and similar migration timing across populations. These results suggest that factors negatively affecting some breeding populations are occurring in North America, not in Central or South America. The authors also note that the analyses used in this study “can be used to focus migratory bird conservation towards places and times of the annual cycle where populations are more likely to be limited.”

### **Urban rooftop-nesting Common Nighthawk chicks tolerate high temperatures by hyperthermia with relatively low rates of evaporative water loss**

Gretchen N. Newberry, Ryan S. O'Connor, and David L. Swanson. *Ornithological Applications*, 123 (2021): duab016

<https://doi.org/10.1093/ornithapp/duab016>

Common Nighthawks (*Chordeiles minor*) in the Midwest largely nest on urban rooftops. As part of her PhD research, Gretchen looked at the thermal tolerances of nighthawk chicks to evaluate the possible impact of predicted climate change (higher temperatures and humidity) on rooftop-nesting birds. In the lab she exposed 7- to 14-day-old nighthawk chicks to conditions simulating their rooftop thermal environment and measured rates of oxygen consumption, evaporative water loss (EWL) and body temperature. Chicks survived ambient temperatures up to 51°C and body temperatures up to 48°C; EWL resulted in body mass loss. Chicks were hyperthermic under heat exposure, suggesting that increases in body temperature helped reduce EWL. She concludes that, given the high rates of mass loss and high body temperatures at hot ambient temperatures, chick heat tolerance mechanisms could be detrimental under projected climate change, which could precipitate a decline in urban nighthawk populations.

### **Metabolic profiling and integration of metabolomic and transcriptomic data from pectoralis muscle reveal winter-adaptive metabolic responses of black-capped chickadee and American goldfinch**

Bernard WM Wone and David L. Swanson. *Frontiers in Ecology and Evolution* (2022): 303.

<https://www.frontiersin.org/articles/10.3389/fevo.2022.866130/full>

Resident birds in South Dakota face challenges of extremes in weather, especially temperatures, and food availability among seasons throughout the year. To survive, small birds adjust their metabolism to the changing conditions. To better understand how birds do this, the authors studied the chemical profiles of pectoralis (flight) muscles of Black-capped Chickadees (*Poecile atricapillus*) and American Goldfinches (*Spinus tristis*) in summer and winter. Chickadees showed a greater difference in summer versus winter metabolite enzyme (chemical) profiles than did goldfinches. In winter, both species had reduced levels of amino acids (proteins), possibly because of a lack of insect prey. Both species also showed a potential for faster breakdown of nutrients in winter to generate the energy to keep warm. Chickadees in particular shifted to a greater breakdown of lipids in winter, presumably to create energy. The researchers then looked at the genes that regulate and are regulated by metabolite enzymes. They found that gene-metabolite pairs that were related to the winter-adaptive metabolic response were overrepresented in winter flight muscles. The researchers conclude that collectively, their results suggest “a potential novel mechanism for increasing winter metabolic output, fueled by lipids” for small birds to keep warm during winter.





# The 2023 Spring Season

01 March 2023 to 31 May 2023

Compiled By: Chris Anderson

There were 297 species, including 4 rarities (Eurasian Wigeon, Ruddy Turnstone West River, Western Sandpiper, and Red-naped Sapsucker in the Missouri River Corridor) and 11 first county records reported to the SDOU online database during the season. The ten-year (2013-2022) average is 318. Below, I have tried to highlight the more significant sightings (early/late dates as given in the online database or first county records, indicated in bold; species that are significantly out of range; or confirmed breeding for species that breed early). For early/late migration dates, I have listed the three earliest/latest dates (by county). However, if these did not include a sighting East River, West River, and along the Missouri River, I have included the earliest/latest reported date from the missing region also. Included at the end of this report is a list of species that were not reported this year but might be expected during the Spring Season. A species is placed on the list if it was not reported this year but had been reported during spring in at least 2 of the previous 5 years. Numbers in parentheses indicate the number of consecutive years (up to 4) that the species has appeared on the list during the season.

**Snow Goose** Early: 01 Mar Brown GO; 03 Mar Clay GJS; 04 Mar Yankton RND ... Late: 31 May Hutchinson KP; 20 May Day GO; 18 May Charles Mix KP

**Ross's Goose** Early: 15 Mar Charles Mix KP; 19 Mar Union CA; 21 Mar Yankton RND; 29 Mar Minnehaha CA ... Late: 12 May Yankton RND; 24 Apr Pennington CLG; 11 Apr Beadle KM

**Greater White-fronted Goose** Early: 03 Mar Clay GJS; 04 Mar Yankton RND; 05 Mar Charles Mix ND ... Late: 13 Apr Roberts CV; 11 Apr Clark KM; 10 Apr Spink KM; 27 Mar Stanley KM

**Cackling Goose** Early: 01 Mar Hughes RDO; 03 Mar Minnehaha CA; 04 Mar Yankton RND; 13 Mar Pennington CLG ... Late: 15 Apr Beadle RDO; 14 Apr Sully RDO; 09 Apr Roberts CV; 27 Mar Pennington CLG

**Canada Goose** Confirmed Breeding: 13 April-30 May, 9 counties (ON, NE, PY)

Trumpeter Swan Early: 10 Mar Stanley RDO; 13 Mar Hughes KM; 25 Mar Clay DS; **01 Apr Lincoln CA (first county record)** ... Late: 29 Apr Roberts CV; 16 Apr Hughes RDO ... Confirmed Breeding: 13 May Harding (ON) KM

**Tundra Swan** All Reports: 26 Mar Charles Mix KP; 07 Apr Charles Mix KP; 08 Apr Brookings CV; 10 Apr Lake JSP; 05 May Marshall GO

**Wood Duck** Early: 01 Mar Brown GO; 14 Mar Yankton RND; 19 Mar Union CA; 10 Apr Pennington CLG

**Blue-winged Teal** Early: 28 Mar Hughes KM; 01 Apr Clay DS; 02 Apr Yankton RND; 06 Apr Brookings JSP; 17 Apr Pennington CLG

**Cinnamon Teal** Only Report: 01 May Pennington CLG

**Northern Shoveler** Early: 12 Mar Hughes KM; 15 Mar Charles Mix KP; 21 Mar Yankton RND; 29 Mar Minnehaha CA; 08 Apr Meade EK

**Gadwall** Early: 04 Mar Lake JSP; 04 Mar Yankton RND; 07 Mar Brown GO; 13 Mar Pennington CLG

**American Wigeon** Early: 04 Mar Yankton RND; 05 Mar Charles Mix ND; 13 Mar Pennington CLG; 14 Mar Butte JSP; 01 Apr Turner KP

**Mallard** Confirmed Breeding: 29 Apr Faulk (NE) MMM; 29 Apr Custer (NE) MMM; 22-29 May Pennington (PY) CLG

**Northern Pintail** Early: 04 Mar Yankton RND; 08 Mar Stanley KM; 13 Mar Pennington CLG; 15 Mar Douglas KP

**Green-winged Teal** Early: 14 Mar Butte JSP; 14 Mar Yankton RND; 15 Mar Hughes RDO; 01 Apr Hutchinson KP

**Canvasback** Early: 04 Mar Charles Mix KP; 04 Mar Yankton RND; 13 Mar Pennington CLG; 01 Apr Lincoln CA

**Redhead** Early: 04 Mar Charles Mix KP; 04 Mar Yankton RND; 13 Mar Pennington CLG; 15 Mar Douglas KP

**Ring-necked Duck** Early: 04 Mar Yankton RND; 12 Mar Hughes KM; 13 Mar Pennington CLG; 01 Apr Hutchinson, Turner KP; 01 Apr Lake JSP; 01 Apr Lincoln CA

**Greater Scaup** Early: 16 Mar Stanley KM; 18 Mar Hughes RDO; 18 Mar Stanley KM; 24 Mar Sully RDO; 07 Apr Minnehaha CA ... Late: 12 Apr Lincoln CA; 09 Apr Union CA; 08 Apr Brookings CV

**Lesser Scaup** Early: 04 Mar Charles Mix KP; 04 Mar Yankton RND; 07 Mar Minnehaha CA; 14 Mar Butte JSP

**Long-tailed Duck** All Reports: 04 Mar Yankton RND; 05 Mar Charles Mix ND; 25 Mar Yankton DS; 09 Apr Gregory KP; 04-08 May Hughes KM

**Bufflehead** Early: 04 Mar Charles Mix KP; 07 Mar Minnehaha CA; 13 Mar Pennington CLG ... Late: 21 May Roberts CV; 19 May Day CA; 15 May Harding KM; 13 May Union GJS

**Common Goldeneye** Late: 27 Apr Stanley RDO; 25 Apr Sanborn KM; 22 Apr Kingsbury JSP; 22 Mar Meade RDO

**Barrow's Goldeneye** Only Report: 26 Mar Charles Mix KP

**Hooded Merganser** Early: 04 Mar Yankton RND; 07 Mar Hughes KM; 16 Mar Pennington JSP; 30 Mar Minnehaha CA ... Late: 23 May Roberts CV; 21 May Brown GO; 21 May Codington ND; 20 May Deuel JSP; 21 Apr Hughes KM

**Common Merganser** Late: 29 May Pennington CLG; 23 May Stanley RDO; 21 May Roberts CA, KP

**Red-breasted Merganser** Early: 04 Mar Charles Mix KP; 15 Mar Hughes RDO; 22 Mar Yankton RND; 03 Apr Brown GO ... Late: 01 May Hughes KM; 25 Apr Yankton RND; 24 Apr Clay GJS; 20 Apr Minnehaha CA

**Ruddy Duck** Early: 21 Mar Yankton RND; 26 Mar Gregory KP; 01 Apr Lincoln CA; 12 May Harding KM

**Greater Prairie Chicken** All Reports: 05 Mar Gregory ND; 22 Mar Hughes KM; 11 Apr Hand KM; 22 May Walworth KM

**Gray Partridge** Only Report: 23 Apr Custer MMM

**Greater Sage-Grouse** Only Report: 15 May Harding KM

**Pied-billed Grebe** Early: 13 Mar Fall River JSP; 01 Apr Lake JSP; 02 Apr Yankton RND

**Horned Grebe** Early: 06 Apr Hughes RDO; 09 Apr Gregory KP; 11 Apr Stanley RDO; 15 Apr Brookings CV ... Late: 20 May Deuel JSP; 20 May Stanley KM; 12 May Yankton RND; 10 May Minnehaha CA

**Red-necked Grebe** All Reports: 16 Apr Hughes KM, RDO; 22 Apr Kingsbury JSP; 28 Apr Brown GO; 19 May Day CA; 20 May Marshall ND

**Eared Grebe** Early: 13 Apr Hughes KM; 14 Apr Sully RDO; 18 Apr Beadle KM; 12 May Harding KM

**Western Grebe** Early: 13 Apr Hughes KM; 16 Apr Stanley KM; 18 Apr Beadle KM; 13 May Harding KM

**Clark's Grebe** All Reports: 16-22 Apr Hughes KM, RDO; 09 May Hand KM

**White-winged Dove** Only Report: 31 May Hughes DB

**Mourning Dove** Early: 04 Mar Charles Mix KP; 23 Mar Minnehaha CA; 28 Mar Stanley RDO; 10 Apr Custer MMM ... Confirmed Breeding: 11-19 May, Aurora, Custer, Dewey, Grant and Sanborn counties (ON, NE, NY)

**Yellow-billed Cuckoo** All Reports: 23-24 May Roberts CV; 27 May Hughes KM; 30-31 May Minnehaha CA; 31 May Hutchinson KP

**Black-billed Cuckoo** All Reports: 20-27 May Roberts RDO, CV

**Common Nighthawk** Early: 19 May Deuel CA; 19 May Grant CA, RDO, KP; 20 May Marshall CA, KP, GJS; 26 May Custer MMM; 30 May Yankton RND

**Common Poorwill** All Reports: 30 Apr Stanley RDO; 11-15 May Harding KM ... Confirmed Breeding: 31 May Harding (NE) KM

**Chimney Swift** Early: 28 Apr Douglas KP; 04 May Stanley KM; 05 May Yankton RND; 26 May Pennington OCW

**White-throated Swift** All Reports: 30 Apr Lawrence EK; 11-15 May Harding KM; 28 May Harding KM

**Ruby-throated Hummingbird** Early: 07 May Clay GJS; 09 May Roberts CV; 13 May Union GJS

**Virginia Rail** Early: 13 Mar Fall River JSP; 28 Apr Lyman RDO; 30 Apr Lake CA

**Sora** Early: 29 Apr Brown GO; 06 May Roberts CV; 07 May Marshall CA; 08 May Lyman RDO; 12 May Harding KM

**American Coot** Early: 07 Mar Minnehaha CA; 13 Mar Fall River JSP; 13 Mar Pennington CLG; 21 Mar Yankton RND

**Sandhill Crane** Early: 24 Mar Douglas KP; 24 Mar Roberts CV; 02 Apr Lyman MMM; 13 Apr Custer MMM ... Late: 21 May Grant CA; 27 Apr Faulk MMM; 27 Apr Roberts CV; 23 Apr Lawrence EK

**Whooping Crane** All Reports: 11 Apr Hand KM; 15 Apr Hand RDO; 02 May Sully KM

**Black-necked Stilt** All Reports: 07 Apr Charles Mix KP; 15 Apr Beadle RDO; 18 Apr Beadle KM; 25 Apr Beadle KM; 01 May Douglas KP; 03 May Charles Mix RND

**American Avocet** Early: 02 Apr Hughes KM; 07 Apr Charles Mix KP; 10 Apr Kingsbury JSP; 05 May Custer MMM

**Black-bellied Plover** Early: 03 May Douglas RND; 05 May Hand KM; 13 May Harding KM; 15 May Hughes, Sully RDO ... Late: 21 May Edmunds RDO; 21 May Hutchinson ND; 20 May Brown GO; 19 May Aurora KM

**American Golden-Plover** Early: 22 Apr Kingsbury JSP; 05 May Hughes KM; 06 May Minnehaha, Moody CA; 13 May Harding KM ... Late: 20 May Brown, Day GO; 19 May Kingsbury KP; 15 May Hughes RDO

**Semipalmated Plover** Early: 19 Apr Clay GJS; 22 Apr Kingsbury JSP; 25 Apr Beadle, Buffalo, Sanborn KM ... Late: 23 May Roberts CV; 21 May Grant JSP; 21 May Kingsbury CA; 21 May Codington, Hutchinson ND; 15 May Clay GJS; 15 May Sully RDO

**Piping Plover** Early: 14 Apr Clay GJS; 19 Apr Stanley KM; 23 Apr Hughes KM; 30 Apr Kingsbury CA

**Killdeer** Early: 13 Mar Pennington DS; 15 Mar Charles Mix KP; 15 Mar Minnehaha CA; 24 Mar Douglas KP ... Confirmed Breeding: 30 May Yankton (PY) RND

**Upland Sandpiper** Early: 26 Apr Faulk MMM; 03 May Stanley KM; 05 May Hand KM; 12 May Harding KM ... Confirmed Breeding: 15 May Custer (NE) MMM

**Long-billed Curlew** Early: 03 Apr Custer MMM; 14 Apr Pennington MMM; 01 May Stanley RDO

**Hudsonian Godwit** Early: 15 Apr Beadle RDO; 17 Apr Minnehaha CA; 18 Apr Yankton RND ... Late: 22 May Hutchinson KP; 19 May Hanson KM; 10 May Yankton RND

**Marbled Godwit** Early: 11 Apr Custer MMM; 15 Apr Deuel JSP; 15 Apr Hughes RDO; 18 Apr Hyde KM

**Ruddy Turnstone** All Reports: 15 May Hughes, Sully RDO; 19 May Day CA; 19 May Kingsbury JSP; 21 May Edmunds RDO; 21 May Hutchinson ND; see also rare birds section below

**Stilt Sandpiper** Early: 25 Apr Yankton RND; 01 May Douglas KP; 06 May Stanley KM, RDO; 13 May Harding KM ... Late: 23 May Hutchinson KP; 21 May Roberts JSP; 20 May Marshall GO; 15 May Hughes RDO

**Sanderling** Early: 22 Apr Kingsbury JSP; 02 May Sully RDO; 14 May Charles Mix GJS; 14 May Harding KM ... Late: 21 May Edmunds RDO; 21 May Kingsbury CA; 21 May Hutchinson ND; 19 May Aurora KM; 15 May Sully RDO

**Dunlin** Early: 11 Apr Beadle KM; 15 Apr Deuel JSP; 22 Apr Kingsbury JSP; 23 Apr Clay GJS ... Late: 23 May Hutchinson KP; 21 May Edmunds RDO; 21 May Kingsbury CA; 21 May Codington ND; 15 May Sully RDO

**Baird's Sandpiper** Early: 02 Apr Hutchinson KP; 07 Apr Hughes, Stanley KM; 07 Apr Clay GJS ... Late: 30 May Yankton RND; 23 May Hutchinson KP; 14 May Harding KM

**Least Sandpiper** Early: 11 Apr Beadle KM; 20 Apr Hughes KM; 25 Apr Buffalo KM ... Late: 30 May Yankton RND; 23 May Roberts CV; 21 May Kingsbury CA; 20 May Marshall GO; 13 May Harding KM

**White-rumped Sandpiper** Early: 02 May Sully RDO; 03 May Clay GJS; 05 May Hand KM ... Late: 24 May Minnehaha CA; 23 May Hutchinson KP; 23 May Roberts CV; 15 May Sully RDO

**Buff-breasted Sandpiper** Only Report: 20 May Day GO

**Pectoral Sandpiper** Early: 11 Apr Beadle KM; 14 Apr Clay GJS; 15 Apr Deuel JSP ... Late: 24 May Minnehaha CA; 23 May Hutchinson KP; 23 May Roberts CV; 15 May Sully RDO

**Semipalmated Sandpiper** Early: 10 Apr Kingsbury JSP; 14 Apr Brookings CV; 15 Apr Beadle RDO; 25 Apr Stanley RDO ... Late: 30 May Yankton RND; 23 May Hutchinson KP; 23 May Roberts CV; 14 May Harding KM

**Short-billed Dowitcher** All Reports: **06 May Moody CA (first county record)**; 15 May Clay GJS; **19 May Grant CA (first county record)**

**Long-billed Dowitcher** Early: 11 Apr Beadle KM; 18 Apr Hyde KM; 18 Apr Yankton RND; 22 Apr Hutchinson KP ... Late: 15 May Sully RDO; 14 May Stanley RDO; 13 May Harding KM; 07 May Lincoln CA

**American Woodcock** All Reports: 30 Mar Minnehaha CA; 08 Apr Brookings CV; 13 Apr Hughes KM; 14 Apr Brookings CV; 19 Apr Hughes RDO

**Wilson's Snipe** Early: 13 Mar Pennington CLG; 08 Apr Clay DS; 09 Apr Union CA; 19 Apr Brown GO

**Wilson's Phalarope** Early: 22 Apr Kingsbury JSP; 25 Apr Hand, Sanborn KM; 02 May Sully RDO; 05 May Custer MMM

**Red-necked Phalarope** All Reports: 11 May Dewey KM; 19 May Hanson, Kingsbury KM; 19 May Sully RDO; **22 May Hutchinson KP (first county record)**

**Spotted Sandpiper** Early: 19 Apr Yankton RND; 29 Apr Minnehaha CA; 03 May Douglas RND; 08 May Pennington CLG

**Solitary Sandpiper** Early: 10 Apr Hutchinson KP; 27 Apr Faulk MMM; 29 Apr Brown GO; 30 Apr Hughes KM; 08 May Pennington CLG ... Late: 30 May Yankton RND; 14 May Minnehaha CA; 13 May Clay GJS; 11 May Dewey KM

**Greater Yellowlegs** Early: 03 Apr Douglas KP; 06 Apr Clay GJS; 07 Apr Charles Mix KP; 07 Apr Hughes KM; 13 Apr Custer MMM ... Late: 19 May Deuel CA; 19 May Kingsbury KP; 18 May Lake CA; 18 May Miner KM; 14 May Douglas KP; 08 May Hughes KM

**Willet** Early: 15 Apr Beadle RDO; 18 Apr Spink KM; 21 Apr Stanley RDO; 05 May Pennington MMM ... Late: 22 May Campbell KM; 19 May Aurora KM; 19 May Day CA; 15 May Custer MMM; 15 May Sully RDO

**Lesser Yellowlegs** Early: 03 Apr Douglas KP; 07 Apr Charles Mix KP; 11 Apr Beadle KM; 13 Apr Custer MMM ... Late: 30 May Yankton RND; 22 May Campbell KM; 19 May Deuel CA; 13 May Harding KM

**Bonaparte's Gull** Early: 07 Apr Minnehaha CA; 08 Apr Clay DS; 08 Apr Turner CA; 09 Apr Charles Mix KP ... Late: 06 May Stanley KM, RDO; 04 May Charles Mix KP; 04 May Clay GJS; 30 Apr Moody CA

**Franklin's Gull** Early: 26 Mar Codington CV; 04 Apr Hughes RDO; 05 Apr Minnehaha CA; 18 Apr Custer MMM

**Ring-billed Gull** Early: 01 Mar Hughes RDO; 04 Mar Yankton RND; 14 Mar Butte JSP; 21 Mar Lincoln CA

**California Gull** Early: 01 Mar Hughes KM, RDO; 14 Mar Butte JSP; 03 Apr Stanley KM; 08 Apr Brookings CV

**Herring Gull** Early: 01 Mar Hughes KM, RDO; 04 Mar Charles Mix KP; 14 Mar Yankton RND; 25 Mar Lake JSP ... Late: 21 May Day CV; 21 May Kingsbury CA; 12 May Yankton RND; 30 Apr Kingsbury CA

**Iceland Gull** All Reports: 09 Mar – 04 Apr Hughes KM, RDO

**Lesser Black-backed Gull** Early: 05 Mar Charles Mix ND; 07 Mar Hughes KM, RDO; 07 Apr Charles Mix KP ... Late: 21 May Kingsbury CA; 21 Apr Stanley RDO; 16 Apr Hughes KM

**Glaucous Gull** Late: 18 Mar Hughes RDO

**Least Tern** Only Report: 05 May Hughes RDO

**Caspian Tern** Early: 17 Apr Stanley KM; 18 Apr Hughes RDO; 29 Apr Butte EK ... Late: 23 May Corson KM; 21 May Day CV; 20 May Marshall KP

**Black Tern** Early: 04 May Clay GJS; 06 May Minnehaha CA; 09 May Lake JSP; 11 May Dewey KM

**Common Tern** Early: 15 Apr Hand RDO; 27 Apr Hughes KM; 06 May Stanley KM, RDO

**Forster's Tern** Early: 16 Apr Hughes KM, RDO; 18 Apr Yankton RND; 19 Apr Stanley KM; 21 Apr Hutchinson KP; 14 May Harding KM

**Common Loon** Early: 02 Apr Stanley RDO; 07 Apr Hughes KM; 08 Apr Clay DS; 08 Apr Turner CA ... Late: 18 May Moody CA; 12 May Stanley RDO; 12 May Yankton RND; 08 May Hughes KM

**Double-crested Cormorant** Early: 06 Apr Clay GJS; 07 Apr Charles Mix KP; 07 Apr Hughes KM; 07 Apr Minnehaha CA; 24 Apr Pennington CLG ... Confirmed Breeding: 20 May Marshall (CN, ON) ND, KP, CV; 21 May Hutchinson (ON) ND

**American White Pelican** Early: 15 Mar Charles Mix KP; 03 Apr Clay GJS; 04 Apr Minnehaha CA; 10 Apr Custer MMM

**American Bittern** Early: 25 Apr Beadle KM; 01 May Hughes KM; 12 May Harding KM

**Great Blue Heron** Early: 13 Mar Pennington CLG; 21 Mar Yankton RND; 29 Mar Minnehaha CA ...  
Confirmed Breeding: 17 April-29 May Pennington (NB, NY) CLG; 20 May Day (ON) GJS, KP; 20 May Marshall (ON) CV, KP; 21 May Hutchinson (ON) ND; 28 May Harding (ON) KM

**Great Egret** Early: 31 Mar Yankton RND; 06 Apr Clay GJS; 07 Apr Charles Mix KP; 10 Apr Hutchinson KP ... Confirmed Breeding: 20 May Day (ON) GJS, KP

**Snowy Egret** Early: 13 Apr Brown GO; 15 Apr Beadle RDO; 22 Apr Yankton RND ... Confirmed Breeding: 20 May Day (ON) GJS, KP

**Cattle Egret** Early: 22 Apr Kingsbury JSP; 22 Apr Yankton RND; 11 May Dewey KM; 13 May Marshall GO

**Green Heron** Early: 06 May Brown GO; 06 May Douglas KP; 06 May Lake CA; 10 May Yankton RND; 13 May Minnehaha CA

**Black-crowned Night-Heron** Early: 08 Apr Stanley KM; 05 May Yankton RND; 09 May Hand KM

**Glossy Ibis** All Reports: 5 Apr Hand KM; 20 May Potter RDO

**White-faced Ibis** Early: 13 Apr Douglas KP; 15 Apr Beadle RDO; 16 Apr Hughes KM

**Turkey Vulture** Early: 15 Mar Yankton RND; 01 Apr Clay DS; 03 Apr Minnehaha CA; 09 Apr Lawrence EK

**Osprey** Early: 09 Apr Hughes KM; 10 Apr Pennington CLG; 17 Apr Stanley KM; 18 Apr Spink KM ...  
Confirmed Breeding: 17 April Pennington (NB) CLG; 25 April Buffalo (ON) KM

**Golden Eagle** All Reports: 04 Mar Stanley RDO; 05 Mar Pennington ND; 14 Mar Butte JSP; 19 Mar Charles Mix KP; 16 Apr Hughes KM ... Confirmed Breeding: 12 May Harding (ON) KM; 15 May Perkins (NY) KM

**Bald Eagle Confirmed Breeding: 05 Mar-22 May, 11 counties (ON, NY)**

**Northern Harrier** Early: 04 Mar Charles Mix, Douglas KP; 14 Mar Butte JSP

**Sharp-shinned Hawk** Late: 05 May Hyde KM; 29 Apr Butte EK; 29 Apr Minnehaha CA; 25 Apr Douglas KP

**Cooper's Hawk Confirmed Breeding: 08 May Minnehaha (ON) CA; 21 May Grant (ON) CV; 22-24 May Walworth (ON) KM**

**Northern Goshawk** All Reports: 24 Mar Hughes KM; 04 Apr Hughes RDO; 04 Apr Pennington MMM

**Bald Eagle** Confirmed Breeding: Brookings, Charles Mix, Clay, Douglas, Hughes, Hutchinson, Marshall, Minnehaha, Moody, Roberts, Stanley, and Sully counties (ON, NY, FY)

**Broad-winged Hawk** Early: 22 Apr Hutchinson KP; 22 Apr Union DS; 23 Apr Hughes KM; 13 May Harding KM ... Late: 24 May Walworth KM; 20 May Day GO; 20 May Grant JSP; 20 May Roberts KP; 20 May Sully KM ... Confirmed Breeding: 21 May Roberts (ON) CA, KP

**Swainson's Hawk** Early: 08 Apr Minnehaha CA; 10 Apr Kingsbury JSP; 14 Apr Hutchinson KP; 14 Apr Sully RDO ... Confirmed Breeding: 29 Apr Minnehaha (ON) CA; 20 May Roberts (ON) ND

**Red-tailed Hawk Confirmed Breeding: 04 Mar-07 Apr Charles Mix (ON) KP; 12, 15 May Harding (ON) KM**

**Rough-legged Hawk** Late: 10 Apr Kingsbury JSP; 08 Apr Brown GO; 08 Apr Hamlin CV; 08 Apr Lake JSP; 06 Apr Lawrence EK; 19 Mar Charles Mix KP

**Ferruginous Hawk** Early: 04 Mar Stanley RDO; 14 Mar Butte JSP; 05 May Hand KM ... Confirmed Breeding: 12-13 May Harding (ON) KM

**Barn Owl** All Reports: 24 Apr Sully KM; 02 May Sully KM; 10 May Sully RDO

**Great Horned Owl** Confirmed Breeding: 03 Mar-14 May Brookings, Harding, Hughes, Hyde, and Stanley counties (ON, NY, FL)

**Burrowing Owl** Early: 02 Apr Custer MMM; 07 Apr Charles Mix KP; 13 Apr Hughes KM

**Barred Owl** Only Report: 07 May Lincoln CA

**Long-eared Owl** Confirmed Breeding: 29-30 Apr Stanley (ON) KM

**Short-eared Owl** All Reports: 02 Apr Butte EK; 06-13 Apr Custer MMM; 15 May Custer MMM; 15 May Harding KM

**Northern Saw-whet Owl** Late: 20 Mar Hughes KM ... Confirmed Breeding: 12-14 May Harding (NY) KM

**Belted Kingfisher** Early: 13 Mar Fall River JSP; 13 Mar Pennington CLG; 19 Mar Hughes KM; 10 Apr Kingsbury JSP

**Yellow-bellied Sapsucker** Early: 08 Apr Brown GO; 08 Apr Roberts CV; 10 Apr Clay GJS; 14 Apr Lincoln CA

**Red-headed Woodpecker** Early: 21 Apr Clay GJS; 28 Apr Lincoln CA; 05 May Yankton RND; 13 May Pennington CLG

**Red-bellied Woodpecker** Confirmed Breeding: **21 May Roberts (ON) KP**

**American Three-toed Woodpecker** Only Report: 22 Mar Custer RDO

**Downy Woodpecker** Confirmed Breeding: **17 Mar Douglas (DD) KP**

**Pileated Woodpecker** Reported 21 Mar – 24 May Roberts CA, RDO, JSP, KP, CV; 29 Apr Lincoln JSP; 20 May Marshall CV ... Confirmed Breeding: 21 May Roberts (ON) CA, JSP, KP, DS

**Northern Flicker** Early: 01 Mar Brown GO; 01 Mar Hughes RDO; 03 Mar Stanley RDO; 07 Mar Pennington JLB

**Merlin** Late: 15 Apr Brown GO; 10 Apr Clay DS; 04 Apr Charles Mix KP; 05 Apr Pennington MMM

**Peregrine Falcon** Early: 16 Mar Minnehaha CA; 14 Apr Brookings CV; 28 Apr Brown GO ... Late: 13 May Harding KM; 09 May Hand KM; 08 May Hughes KM

**Prairie Falcon** All Reports: 08 Mar Stanley KM; 12 Apr Custer MMM; 05 May Stanley RDO; 15 May Custer MMM

**Olive-sided Flycatcher** All Reports: 11 May Harding KM; 13 May Union GJS; 15 May Perkins KM; 18 May Union DS; 21 May Roberts CA, JSP, KP; 22 May Walworth KM; 30 May Minnehaha CA

**Western Wood-Pewee** Early: 05 May Pennington OCW; 11 May Harding KM; 31 May Lawrence, Meade RDO

**Eastern Wood-Pewee** Early: 12 May Clay GJS; 13 May Union DS; 15 May Lake JSP

**Yellow-bellied Flycatcher** All Reports: 16 May Union DS; 18 May Minnehaha CA; 20 May Grant RDO

**Alder Flycatcher** Early: 11 May Union DS; 23 May Walworth KM ... Late: 30 May Minnehaha CA; 28 May Hughes KM; 28 May Stanley RDO

**Willow Flycatcher** Early: 07 May Roberts CV; 13 May Minnehaha CA; 14 May Hamlin KP; 18 May Stanley RDO

**Least Flycatcher** Early: 04 May Clay GJS; 05 May Hand KM; 06 May Douglas KP; 06 May Hughes KM; 11 May Dewey KM ... Confirmed Breeding: 20 May Roberts (ON) CA

**Cordilleran Flycatcher** All Reports: 08 May Pennington CLG; 19-29 May Pennington CLG, OCW

**Eastern Phoebe** Early: 01 Apr Lake JSP; 09 Apr Charles Mix KP; 09 Apr Clay DS; 11 May Dewey KM

**Say's Phoebe** Early: 07 Apr Charles Mix KP; 13 Apr Stanley KM; 17 Apr Custer MMM; 28 Apr Faulk MMM

**Great Crested Flycatcher** Early: 07 May Charles Mix KP; 09 May Union DS; 10 May Hughes KM; 13 May Minnehaha CA; 15 May Custer MMM

**Western Kingbird** Early: 03 May Charles Mix RND; 04 May Gregory KP; 05 May Custer MMM; 05 May Hyde KM; 05 May Yankton RND

**Eastern Kingbird** Early: **08 Apr Brookings CV (new earliest date)**; 04 May Charles Mix, Gregory KP; 05 May Yankton RND; 13 May Custer MMM

**Scissor-tailed Flycatcher** Only Report: **29 May Codington CV (first county record)**

**Bell's Vireo** Early: 11 May Clay GJS; 11 May Union DS; 18 May Charles Mix KP; 22 May Minnehaha CA; 31 May Ziebach RDO

**Yellow-throated Vireo** Early: 09 May Lake JSP; 13 May Union GJS; 15 May Roberts CV ... Confirmed Breeding: 20 May Marshall (ON) CA, GJS, KP

**Blue-headed Vireo** Early: 06 May Union DS; 08 May Minnehaha CA; 15 May Lake JSP ... Late: 21 May Grant CV, ND; **19 May Deuel CA (first county record)**; 17 May Clay DS

**Philadelphia Vireo** Early: 14 May Harding KM; 15 May Lake JSP; 15 May Minnehaha CA; 16 May Union DS ... Late: 28 May Douglas KP; 22 May Lake JSP; 21 May Brown GO; 21 May Grant GJS; 21 May Roberts JSP

**Warbling Vireo** Early: 05 May Clay DS; 05 May Yankton RND; 06 May Brown GO; 16 May Harding KM ... Confirmed Breeding: 23 May Yankton (CN) KP

**Red-eyed Vireo** Early: 10 May Yankton RND; 11 May Union DS; 13 May Clay GJS; 19 May Pennington OCW

**Loggerhead Shrike** Early: 02 Apr Hutchinson KP; 06 Apr Custer MMM; 15 Apr Hughes RDO ... Confirmed Breeding: 27 May Custer (NY) MMM

**Northern Shrike** Late: 08 Apr Turner CA; 06 Apr Brookings JSP; 05 Apr Roberts CV; 03 Apr Stanley KM; 13 Mar Fall River JSP

**Canada Jay** Only Report: 16 Mar Pennington JSP

**Black-billed Magpie Confirmed Breeding: 15, 28 May Harding (NB, ON) KM**

**Common Raven** All Reports: 12 May Harding KM

**Northern Rough-winged Swallow** Early: 19 Apr Custer MMM; 25 Apr Aurora KM; 25 Apr Yankton RND; 27 Apr Stanley RDO

**Purple Martin** Early: 13 Apr Douglas KP; 19 Apr Hughes KM; 24 Apr Lake JSP ... Confirmed Breeding: 19 May Grant (ON) CA

**Tree Swallow** Early: 07 Apr Charles Mix KP; 07 Apr Clay GJS; 08 Apr Meade EK; 09 Apr Union CA; 10 Apr Custer MMM; 10 Apr Kingsbury JSP ... Confirmed Breeding: 07 May Lincoln (ON) CA

**Violet-green Swallow** Early: 08 May Pennington CLG; 13 May Harding KM

**Bank Swallow** Early: 28 Apr Lincoln CA; 06 May Lake, Minnehaha CA; 06 May Stanley KM, RDO; 12 May Harding KM ... Confirmed Breeding: 21 May Grant (ON) CA

**Barn Swallow** Early: 19 Apr Douglas KP; 25 Apr Aurora KM; 25 Apr Minnehaha CA; 26 Apr Faulk MMM; 27 Apr Hughes KM; 01 May Pennington CLG ... Confirmed Breeding: 04 May Gregory (NB) KP; 05-22 May Pennington (NB) CLG; 21 May Grant (ON) ND; 31 May Hutchinson (NB) KP

**Cliff Swallow** Early: 14 Apr Brookings CV; 03 May Minnehaha CA; 04 May Gregory KP; 12 May Harding KM

**Golden-crowned Kinglet** Late: 25 Apr Brown GO; 18 Apr Hyde KM; 14 Apr Hughes KM

**Ruby-crowned Kinglet** Early: 08 Apr Brown GO; 09 Apr Lake JSP; 09 Apr Union CA; 13 Apr Hughes KM; 30 Apr Lawrence EK ... Late: 23 May Roberts CV; 23 May Union DS; 21 May Grant CV

**Red-breasted Nuthatch** Late: 24 May Walworth KM; 20 May Grant KP, CA, ND; 18 May Hughes EDS

**Pygmy Nuthatch** All Reports: 03 Mar Pennington ND; 07 Mar Pennington JLB; 24 Apr Pennington CLG; 05-26 May Pennington OCW

**Brown Creeper** Late: 08 May Roberts CV; 18 Apr Hand KM; 09 Apr Union CA

**Blue-gray Gnatcatcher** Early: 29 Apr Lincoln JSP; 05 May Hughes BLM; 05 May Hyde KM; 11 May Harding KM

**Rock Wren** Early: 11 May Harding KM; 29 May Lyman RDO

**Canyon Wren** All Reports: 09 Apr Lawrence BLM; 30 Apr Lawrence EK

**House Wren** Early: 14 Apr Minnehaha CA; 29 Apr Lincoln JSP; 30 Apr Hughes KM; 08 May Pennington CLG

**Winter Wren** All Reports: 16 Apr Hughes KM; **21 May Grant CV (first county record)**

**Sedge Wren** Early: 14 Apr Brookings CV; 06 May Moody CA; 06 May Roberts CV; 22 May Campbell KM

**Marsh Wren** Early: 13 Mar Fall River JSP; 21 Apr Hughes KM; 24 Apr Pennington CLG; 26 Apr Minnehaha CA

**American Dipper** All Reports: 04 Mar Lawrence ND; 14 Mar Lawrence JSP; 09 Apr Lawrence RS; 10 Apr Lawrence BLM

**Gray Catbird** Early: 29 Apr Clay GJS; 04 May Hughes KM; 06 May Douglas KP; 13 May Harding KM; 13 May Pennington CLG

**Brown Thrasher** Early: 24 Mar Hughes KM; 14 Apr Lincoln CA; 15 Apr Clay DS; 11 May Harding KM

**Northern Mockingbird** Only Report: **19 May Grant CA (first county record)**

**European Starling Confirmed Breeding: 16-17 May Minnehaha (CF, NY) CA**

**Eastern Bluebird** Early: 04 Mar Charles Mix KP; 10 Mar Hughes KM; 15 Mar Custer JSP; 02 Apr Hutchinson KP ... Confirmed Breeding: 30 May Pennington (CF) JLB

**Mountain Bluebird** Early: 05 Mar Jackson ND; 13 Mar Fall River JSP; 22 Mar Custer RDO; 22 Mar Hughes KM; 02 Apr Stanley KM, RDO

**Townsend's Solitaire** Late: 30 Mar Hughes KM; 08 Mar Stanley KM; 05 Mar Jackson ND; 02 Mar Sully KM

**Veery** All Reports: 14 May Sully RDO; 20 May Marshall CA; 20 May Roberts KP

**Gray-cheeked Thrush** Early: 05 May Clay DS; 05 May Hand KM; 05 May Minnehaha CA; 14 May Harding KM ... Late: 21 May Grant CV, ND; 20 May Stanley KM; 16 May Minnehaha CA

**Swainson's Thrush** Early: 03 May Roberts CV; 04 May Hughes KM; 05 May Clay GJS; 05 May Hand, Hyde KM; 05 May Lake JSP; 05 May Minnehaha CA ... Late: 31 May Minnehaha CA; 26 May Hughes KM; 24 May Walworth KM

**Hermit Thrush** All Reports: 09 Apr Roberts CV; 29 Apr Brown GO; 05 May Marshall GO

**Wood Thrush** Early: 11 May Union DS; 16 May Lincoln RND; 16 May Minnehaha CA; 17 May Hughes KM

**American Robin Confirmed Breeding: 25 Apr-29, May Clay, Douglas, Faulk, Hughes, Pennington, Roberts and Turner counties (CN, ON, CF)**

**House Sparrow Confirmed Breeding: 03 May Minnehaha (CN) CA**

**Bohemian Waxwing** Only Report: 13 Mar Fall River JSP

**American Pipit** Early: 18 Apr Stanley RDO; 22 Apr Kingsbury JSP; 28 Apr Faulk MMM ... Late: 07 May Lincoln CA; 06 May Stanley KM; 05 May Hand KM

**Purple Finch** Late: 09 May Roberts CV; 25 Mar Yankton DS

**Red Crossbill** Only Report: 14 May Harding KM

**Pine Siskin** Late East River: 14 May Roberts CV

**Lapland Longspur** Late: 15 Apr Deuel JSP; 11 Apr Clark, Hand KM; 08 Apr Lake JSP; 03 Apr Stanley KM

**Chestnut-collared Longspur** Early: 19 Mar Charles Mix KP; 11 Apr Hand KM; 14 Apr Custer MMM

**Snow Bunting** Late: 06 Apr Brookings JSP; 01 Apr Lake JSP; 25 Mar Marshall CV; 19 Mar Charles Mix KP

**Grasshopper Sparrow** Early: 24 Apr Pennington CLG; 03 May Minnehaha CA; 11 May Dewey KM; 13 May Clay DS

**Chipping Sparrow** Early: 09 Apr Roberts CV; 10 Apr Lake JSP; 13 Apr Clay DS; 13 Apr Minnehaha CA; 05 May Pennington CLG

**Clay-colored Sparrow** Early: 26 Apr Minnehaha CA; 03 May Custer MMM; 04 May Clay GJS; 04 May Hughes KM

**Field Sparrow** Early: 09 Apr Union DS; 10 Apr Clay DS; 27 Apr Roberts CV; 11 May Dewey, Harding KM

**Brewer's Sparrow** All Reports: 12 May Harding KM; 15 May Harding KM

**Lark Sparrow** Early: 26 Apr Charles Mix KP; 03 May Custer MMM; 04 May Clay GJS; 05 May Lake JSP

**Lark Bunting** Early: 03 May Custer MMM; 11 May Stanley KM; 12 May Harding KM

**American Tree Sparrow** Late: 22 Apr Kingsbury JSP; 19 Apr Douglas KP; 15 Apr Roberts CV; 14 Apr Hughes KM; 14 Apr Sully RDO; 03 Apr Custer MMM

**Fox Sparrow** Early: 30 Mar Lake JSP; 02 Apr Clay GJS; 03 Apr Minnehaha CA ... Late: 29 Apr Charles Mix KP; 18 Apr Hand KM; 17 Apr Hughes KM

**Dark-eyed Junco** Late: 13 May Minnehaha CA; 06 May Roberts CV; 02 May Lake JSP; 29 Apr Lincoln CA; 29 Apr Stanley KM

**White-crowned Sparrow** Early: 24 Mar Sully RDO; 07 Apr Charles Mix KP; 20 Apr Hughes KM; 28 Apr Douglas KP; 01 May Pennington CLG ... Late: 20 May Grant GJS; 19 May Pennington CLG; 17 May Hughes KM; 17 May Stanley RDO

**Harris's Sparrow** Early: 19 Mar Union CA; 03 Apr Minnehaha CA; 09 Apr Roberts CV; 11 May Harding KM ... Late: 21 May Roberts CA, KP; 18 May Aurora, Hyde KM; 15 May Harding KM

**White-throated Sparrow** Early: 03 Apr Roberts CV; 08 Apr Brookings CV; 15 Apr Minnehaha CA; 19 Apr Hughes KM; 11 May Harding KM ... Late: 21 May Day CV; 21 May Roberts CA; 18 May Hyde KM; 14 May Harding KM



**Vesper Sparrow** Early: 08 Apr Clay DS; 08 Apr Lake JSP; 08 Apr Turner CA; 09 Apr Union CA; 13 Apr Custer MMM

**LeConte's Sparrow** All Reports: 06 May Roberts CV; 19 May Grant CA

**Savannah Sparrow** Early: 09 Apr Union CA; 10 Apr Hutchinson KP; 14 Apr Davison KP; 12 May Harding KM

**Baird's Sparrow** Only Report: 29 May Harding KM

**Song Sparrow** Early: 13 Mar Fall River JSP; 16 Mar Minnehaha CA; 17 Mar Clay DS

**Lincoln's Sparrow** Early: 06 Apr Clay DS; 19 Apr Stanley KM; 23 Apr Douglas KP; 24 Apr Faulk MMM; 24 Apr Pennington CLG ... Late: 22 May Hughes KM; 19 May Deuel, Grant CA; 18 May Aurora, Hyde, Sanborn KM; 14 May Harding KM

**Swamp Sparrow** Early: 26 Apr Faulk MMM; 26 Apr Minnehaha CA; 27 Apr Hughes KM; 02 May Lake JSP

**Spotted Towhee** Early: 05 Mar Hughes KM; 14 Apr Lincoln CA; 24 Apr Sully KM; 28 Apr Pennington OCW

**Eastern Towhee** Early: 23 Apr Clay GJS; 28 Apr Lincoln CA; 06 May Minnehaha CA

**Yellow-breasted Chat** Early: 10 May Hughes KM; 14 May Lyman RDO; 15 May Custer MMM

**Yellow-headed Blackbird** Early: 03 Apr Clay GJS; 03 Apr Douglas KP; 03 Apr Minnehaha CA; 08 May Pennington CLG

**Bobolink** Early: 06 May Brookings, Minnehaha CA; 09 May Hand KM; 12 May Harding KM

**Western Meadowlark** Early: 04 Mar Charles Mix KP; 04 Mar Lake JSP; 05 Mar Jackson ND; 10 Mar Hutchinson KP ... Confirmed Breeding: 01, 14 May Custer (NE) MMM; 22 May Hutchinson (CF) KP

**Eastern Meadowlark** Early: 09 Apr Union CA; 19 Apr Clay GJS

**Orchard Oriole** Early: 05 May Clay GJS; 09 May Douglas KP; 10 May Yankton RND; 27 May Custer MMM

**Baltimore Oriole** Early: 04 May Clay DS; 05 May Douglas KP; 05 May Yankton RND; 06 May Douglas KP; 06 May Lake JSP 06 May Roberts CV; 12 May Harding KM

**Red-winged Blackbird** Early: 04 Mar Charles Mix KP; 04 Mar Clay GJS; 04 Mar Stanley RDO; 09 Mar Hughes KM; 13 Mar Fall River JSP; 20 Mar Minnehaha CA ... Confirmed Breeding: 19 May Brookings (CN) CA

**Brown-headed Cowbird** Early: 19 Mar Union CA; 22 Mar Clay GJS; 03 Apr Douglas KP; 11 May Harding KM

**Rusty Blackbird** Early: 26 Mar Clay GJS; 03 Apr Minnehaha CA; 05 Apr Roberts CV ... Late: 08 Apr Brookings CV; 08 Apr Minnehaha CA; 06 Apr Clay GJS

**Brewer's Blackbird** Early: 07 Apr Charles Mix KP; 08 Apr Brookings CV; 18 Apr Hand, Hyde KM; 12 May Harding KM

**Common Grackle** Early: 15 Mar Clay GJS; 19 Mar Union CA; 21 Mar Lake JSP; 10 Apr Pennington CLG ... Confirmed Breeding: 14 April Brookings (CN) CV; 19 Apr Minnehaha (CN) CA; 27 Apr-06 May Douglas (CN) KP

**Great-tailed Grackle** All Reports: 11 Apr Beadle KM; **27 Apr Faulk MMM (first county record)**; 01 May Douglas KP; 01 May Hughes KM; 04 May Charles Mix KP; 05 May Minnehaha CA

**Ovenbird** Early: 06 May Union DS; 07 May Brown GO; 07 May Charles Mix KP; 13 May Harding KM; 13 May Minnehaha CA

**Northern Waterthrush** Early: 04 May Minnehaha CA; 05 May Yankton RND; 06 May Union DS; 14 May Harding KM ... Late: 21 May Grant CV; 21 May Roberts CA, KP; 19 May Deuel CA

**Golden-winged Warbler** All Reports: 11-13 May Union DS; 13 May Minnehaha CA; 16 May Union DS

**Blue-winged Warbler** All Reports: 16-19 May Lincoln RND; 22 May Hughes KM

**Black-and-white Warbler** Early: 04 May Charles Mix KP; 05 May Hand, Hyde KM; 11 May Harding KM ... Late: 23 May Yankton KP; 21 May Day, Grant CV, ND; 21 May Roberts KP; 14 May Harding KM

**Prothonotary Warbler** Only Report: 13 May Minnehaha CA

**Tennessee Warbler** Early: 09 May Lake JSP; 10 May Clay DS; 11 May Harding KM ... Late: 24 May Roberts CV; 23 May Yankton KP; 21 May Brown GO; 21 May Day CV; 21 May Grant CV, GJS, CV, ND; 21 May Roberts CA; 15 May Harding KM

**Orange-crowned Warbler** Early: 13 Apr Hughes KM; 19 Apr Stanley KM; 24 Apr Sully KM; 25 Apr Faulk MMM; 28 Apr Pennington OCW ... Late: 23 May Roberts CV; 21 May Grant KP, CV, ND; 20 May Day GO; 20 May Deuel JSP; 20 May Marshall CV; 19 May Clay DS; 19 May Pennington OCW

**Nashville Warbler** Early: 19 Apr Stanley KM; 04 May Minnehaha CA; 06 May Lake JSP ... Late: 23 May Roberts CV; 21 May Grant CV, ND; 19 May Brookings KP; 15 May Clay GJS

**Mourning Warbler** All Reports: 11 May Union DS; 12 May Yankton RND; 14 May Douglas KP; 16 May Minnehaha CA; 19 May Brookings KP; 20 May Grant JSP; 30 May Minnehaha CA

**Common Yellowthroat** Early: 05 May Pennington MMM, OCW; 05 May Hyde KM; 05 May Yankton RND; 7 May Brown GO

**American Redstart** Early: 06 May Roberts CV; 07 May Charles Mix KP; 10 May Hughes KM; 10 May Yankton RND; 14 May Harding KM ... Confirmed Breeding: 21 May Roberts (ON) CA; 23 May Yankton (CN) KP

**Cape May Warbler** All Reports: 13 May Clay GJS; 13 May Minnehaha CA; 15 May Lake JSP; **19 -20 May Grant CA, RDO, KP, GJS, ND (first county record)**; 23 May Union DS

**Northern Parula** All Reports: 16 May Union DS; 20 May Marshall ND; 25 May Stanley DB, RDO

**Magnolia Warbler** Early: 09 May Lake JSP; 11 May Union DS; 13 May Brown GO; 14 May Harding KM ... Late: 21 May Brown GO; 21 May Grant GJS, CV, ND; 21 May Roberts CA, KP; 15 May Clay GJS

**Bay-breasted Warbler** All Reports: 13 May Minnehaha CA; 13 May Union DS; 14 May Sully RDO; 15 May Lake JSP; 16 May Minnehaha CA; 16 May Union DS; 18 May Lake JSP; 20 May Grant JSP; 24 May Roberts CV

**Blackburnian Warbler** All Reports: 13 May Union GJS; 14 May Brown GO; 16 May Minnehaha CA

**Yellow Warbler** Early: 04 May Charles Mix KP; 04 May Clay GJS; 04 May Minnehaha CA; 05 May Pennington OCW ... Confirmed Breeding: 20 May Marshall (ON) CA, KP; 23 May Yankton (CN) KP

**Chestnut-sided Warbler** Early: 11 May Union DS; 13 May Minnehaha CA; **14 May Hamlin KP (first county record)** ... Late: 23 May Roberts CV; 21 May Grant CV, ND; 16 May Lincoln RND; 16 May Union DS

**Blackpoll Warbler** Early: 07 May Lake JSP; 10 May Clay DS; 11 May Dewey, Harding KM ... Late: 23 May Walworth KM; 21 May Brown GO; 21 May Roberts CA; 19 May Pennington MMM; 18 May Hyde KM

**Palm Warbler** Early: 26 Apr Stanley Km, RDO; 28 Apr Hughes KM; 05 May Hyde KM; 06 May Brookings, Minnehaha, Moody CA; 06 May Union DS ... Late: 20 May Grant RDO, GJS; 13 May Clay GJS; 10 May Brown GO

**Yellow-rumped Warbler** Early: 08 Apr Brown GO; 09 Apr Union CA; 12 Apr Hughes KM; 24 Apr Pennington CLG ... Late: 23 May Roberts CV; 21 May Day CV; 21 May Grant ND; 20 May Deuel JSP; 20 May Sully KM

**Black-throated Green Warbler** All Reports: 07 May Brown GO; 11-13 May Union DS; 15 May Roberts CV; 16 May Minnehaha CA; 20 May Grant JSP

**Canada Warbler** All Reports: 15 May Douglas KP; 16 May Lincoln RND; 17 May Clay DS; 22 May Hughes EDS

**Wilson's Warbler** All Reports: 13 May Minnehaha CA; 13 May Union GJS, DS; 15 May Clay GJS; 15 May Minnehaha CA; 16 May Stanley RDO; 20 May Deuel JSP

**Summer Tanager** All Reports: 12 May Roberts CV; 15 May Clay GJS

**Scarlet Tanager** Early: 09 May Union DS; 13 May Hughes RDO; 15 May Douglas KP; 15 May Lake JSP; 15 May Sully RDO

**Western Tanager** All Reports: 14 May Custer MMM; 30 May Harding KM; 31 May Lawrence RDO

**Northern Cardinal** Reported West River: 6 reports 10 Apr – 26 May Pennington CLG, OCW

**Rose-breasted Grosbeak** Early: 05 May Lake JSP; 06 May Clay GJS; 06 May Roberts CV

**Black-headed Grosbeak** Early: 04 May Custer MMM; 06 May Stanley RDO; 08 May Hughes KM; 16 May Roberts CV

**Blue Grosbeak** All Reports: 21 May Custer MMM; 23 May Minnehaha CA; 23 May Stanley RDO; 25-26 Stanley KM; 31 May Meade RDO

**Lazuli Bunting** All Reports: 14 May Stanley RDO; 17 May Stanley KM

**Indigo Bunting** Early: 11 May Roberts CV; 11 May Union DS; 15 May Minnehaha CA; 16 May Lincoln RND

**Dickcissel** Early: 10 May Clay GJS; 14 May Charles Mix GJS; 14 May Douglas KP; 29 May Tripp RDO

**Species Expected But Not Reported**

Surf Scoter (4), Northern Bobwhite, Ruffed Grouse (2), Eastern Whip-poor-will, Broad-tailed Hummingbird (2), Whimbrel, Short-billed Gull, Great Black-backed Gull, Neotropic Cormorant (2), Least Bittern, Snowy Owl, Lewis's Woodpecker, Black-backed Woodpecker, Dusky Flycatcher (2), Plumbeous Vireo (2), Clark's Nutcracker, Carolina Wren (2), Sage Thrasher, Sprague's Pipit, Evening Grosbeak, Cassin's Finch (2), Common Redpoll, Nelson's Sparrow, Bullock's Oriole, Virginia's Warbler (3), Connecticut Warbler, MacGillivray's Warbler, Hooded Warbler

**Reports Requiring Acceptance By The Rare Bird Records Committee**

**Ruddy Turnstone:** 13 May Custer MMM (first county record, already approved by committee)

**Eurasian Wigeon:** 18-19 Apr Stanley KM, RDO (first county record; already approved by committee)

**Western Sandpiper:** 22 Apr Kingsbury JSP (first county record)

**Red-naped Sapsucker:** 27 Apr Hughes KM, RDO (first county record; already approved by committee)

**Contributing Observers**

CA	Chris Anderson
DS	Doug Backlund
JLB	Jocelyn L. Baker
KB	Kelly Bauder
CLG	Canyon Lake Group Survey
RND	Roger Dietrich
EDS	Eileen Dowd Stukel
ND	Nancy Drilling
EK	Elizabeth Krueger
BLM	Brennan & Lucious McCullough
MMM	Michael M. Melius
KM	Kenny Miller
OCW	Outdoor Campus West Survey
GO	Gary Olson
RDO	Ricky D. Olson
JSP	Jeffrey S. Palmer
KP	Kelly M. Preheim
RS	Randall Scheiner
GJS	Gary & Jan Small
DS	David Swanson
CV	Cheryl Vellenga







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**Great Egret, Alabama Bend, Clay County, 9/30/2023**

*Photo Credit: Kelly Preheim*