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Deadlines for submission of material for publication in The Bluebird
Manuscripts for The Bluebird—to the editor by:
Feb. 1 for March issue; May 1 for June issue;
Aug. 1 for Sept. issue; Nov. 1 for Dec. issue

Deadlines for submissions to the Seasonal Survey Editors
Winter (Dec. 1-Feb. 28)—to Mary Nemecek by Mar. 10
Spring (Mar. 1-May 31)—to Lisa Berger by June 10
Summer (June 1-July. 31)—to Paul McKenzie by Aug 10
Fall (Aug. 1-Nov. 30)—to Joe Eades by Dec. 10
President’s Corner—Bill Eddleman
Subscribe to the MOBIRDS list
We Welcome Our New ASM Members! — Kevin Wehner
Confessions of a Tanager Manager—Diane Bricmont
Summary of the Audubon Society of Missouri and Missouri State Parks Agreement-related (SPARKS) —Edge Wade
Peer-Reviewed Paper: Photographic Evidence of Possible Instance of Avian Keratin Disorder in a Missouri Red-breasted Nuthatch — Paul McKenzie
Missouri Christmas Bird Counts, 2018-2019 — Randy Korotev
Summer 2018 Seasonal Report—Mary Nemecek

By the time all of you read this, we will have had our Spring Meeting. I hope I will have seen many of you there, and that all of us saw a lot of good birds! I had a great trip to Costa Rica in March, totaling 167 species, of which over 50 were species I had never seen before. A highlight of the trip for me was seeing a Resplendent Quetzal at Monteverde Cloud Forest, and then a nice group of species following an army ant swarm shortly thereafter. As much as I enjoy seeing our local species, it is great to see some new and unique ones in the tropics.

In a short time, we will be surveying the membership to rank the preferred names for our organization should we choose to change the name. Part of this awaits discussion at the Spring Meeting, but the idea is to agree on a preference for a new name in order to craft a motion for a vote at the Fall Meeting at Camp Clover Point. It is not too late for you to log in and leave your comments on whether we should change our name, and if so, what new name is preferred.

This spring marks the 47th spring migration I have bired. While it is nice to see spring migrants every year, it is unfortunately true and obvious to long-time birders that many of our familiar species have decreased greatly in the last few decades. We’ve made a lot of strides in identifying the problems with conserving birds, but implementation of solutions has lagged far behind. I fear that if we don’t “catch up,” many of our native species will disappear.

What can all of us do? ASM does all it can with the limited resources we have, participating in monitoring activities, education, and conservation projects. The individual birder probably can do the most by helping with monitoring programs such as the Breeding Bird...
Survey, and by putting resources into habitat acquisition, management, and restoration. The main factors I see as contributing to loss of our birds are related to loss and degradation of habitat. The species that have declined the most are grassland species and species found in the early stages of forest succession (including glades). Left alone, exotic plant species invade these habitats or they become forest over time. The processes that maintained these habitats simply no longer operate without human intervention, just as human intervention stopped them from working in the first place. (One example is fire—society can’t tolerate thousands of acres of prairie burning at once in settled areas, so we have to use prescribed burns to replace this.)

Human attitudes also result in damage to bird habitats. One example is the reaction to Bradford (callery) pear. Some people readily take them out of their landscapes because they break up within 20 years of planting, because of the odor of their flowers, or because their seedlings damage natural habitats. I’ve talked to many others who won’t remove them because “They are so pretty.” No matter what we do, the nursery industry still sells hundreds of thousands of them each year as well. This species does provide some food for birds (although some research suggests it is low-quality food), but in the long run its spread to natural habitats alters succession and excludes native plants and thus bird species. We have a depressing list of other non-native plants causing similar problems in a variety of habitats.

All of us should be contributing to bird conservation, whether it is contributing to habitat acquisition and conservation, programs targeted to rare species, donating our time to help with monitoring or conservation programs, or helping to maintain private and governmental programs that benefit bird populations.

I’ll close with a couple of quotes from Aldo Leopold, early environmental philosopher, crusader for wilderness, and the father of scientific wildlife management. He understood the problems we had and still have in conserving birds and other species.

“One of the penalties of an ecological education is that one lives alone in a world of wounds. Much of the damage inflicted on land is quite invisible to laymen. An ecologist must either harden his shell
and make believe that the consequences of science are none of his business, or he must be the doctor who sees the marks of death in a community that believes itself well and does not want to be told otherwise.”

“Conservation is getting nowhere because it is incompatible with our Abrahamic concept of land. We abuse land because we regard it as a commodity belonging to us. When we see land as a community to which we belong, we may begin to use it with love and respect.”

Sincerely,

Bill Eddleman, ASM President

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Subscribe to the MOBIRDS Listserv

If you are curious about what birds are being seen around Missouri, have a question about a bird, enjoy sharing your birding experiences, want to know what field trips are coming up, or want to meet other birders online, the ASM sponsored MOBIRDS listserv is for you. Join the active Missouri birding community by subscribing.

Instructions for subscribing:
mobirds.org/Listserve/ListserveHelp.pdf

Please note that ASM members are NOT automatically subscribed to the listserv. You must subscribe yourself by following the instructions linked above.

Also, all listserv posts are retained in a searchable archive:
po.missouri.edu/cgi-bin/wa?A0=MOBIRDS-L
WE WELCOME OUR NEW ASM MEMBERS!
Kevin Wehner

Remember, new members are our future. If a new member lives near you, say, “Howdy and welcome to ASM.” In addition, recruit another new member. **Welcome to these 21 new ASM members in the 2nd quarter of 2019!**

Robert Bailey  
Brigitte Brace  
Kay Conklin  
Van & Felicia Ellis  
Bob Estes  
Gail Gagnon  
Betty Garrido  
Kathy Glaser  
Carol Harris  
Evelyn Luecke  
Veronica Mecko  
Mary McNett  
Robert & Suzanne Oaks  
Anita & Roger Randolph  
Elaine, Tim, Eric & Daniel Williams

Maplewood, MO  
Springfield, MO  
Columbia, MO  
Cabool, MO  
Eldorado Springs, MO  
St. Charles, MO  
St. Charles, MO  
Bridgeton, MO  
Fenton, MO  
St. Charles, MO  
Jefferson City, MO  
Chanute, KS  
Licking, MO  
Jefferson City, MO  
Chesterfield, MO
Most work days begin the same way: get up, get dressed, fill the feeders, bird the yard, grab some breakfast, take one last peek at the feeders, take a shower, get dressed and go to work. April 14, 2019 wasn't much different, until I got to the "last peek at the feeders" part.

The three most recent additions to my yard list for the year had all been sparrows- Chipping, Swamp and Lincoln's, in that order. As I took one last peek at the feeders, my eyes were already aiming toward the ground, hoping to find the Lincoln's scratching the dirt between the oak snag and the poison ivy, a little sweet spot it seemed to favor. Instead, a burst of yellow caught my eye; a Western Tanager that seemed to be falling out of my dogwood as it tried to grasp the tiny perches of my thistle feeder.

I was simply stunned! There was a Western Tanager in my dogwood! I raced into the kitchen to grab my camera, wishing for a moment that I had taken a bit more time to watch the bird, but when I returned to the window he was nowhere to be seen. There was a Western Tanager in my dogwood, and just as suddenly, there wasn't. But it was unmistakable, wasn't it? A Western Tanager is a Western Tanager, isn't it? I was certain of the ID, and I was just as
certain that I needed a photo to convince myself of what I had just seen.

My husband likes to say that if he hears running in the house, it can only mean one of two things: a really good bird, or catastrophic appliance failure. He was relieved to hear that it was a really good bird, but I was out of time. I had to get a shower and leave for work, so I grabbed my Sibley’s and showed him the Western Tanager. I gave him the camera, showed him the basics, and asked him to watch the feeders. Just for a few hours. Certainly the bird would return before long. It was a damp, overcast 43 degrees, and the early snow had given way to high clouds and a stiff breeze.

This was just the beginning of several unproductive days at work. I kept replaying the image in my mind of a glorious male Western Tanager dropping out of my dogwood. Spring migration is full of possibilities. I just needed to get home to see him again in all his glory!

The hours dragged, but eventually I got back to the house and pulled into the driveway, sitting in the cold car with the engine off and the windows down, my trusty Canon point and shoot at the ready. It took nearly forty minutes, but he finally reappeared. A Western Tanager was in my dogwood! His belly was so yellow, his wings were so black, his face was so orange! The words for the colors just didn't do this bird justice. I stayed motionless in the cold car for two hours, watching him come and go, knowing that once again I'd be late for dinner, all because of a bird.

I finally went inside, ate dinner, uploaded my photos, submitted my Ebird checklist and sent a post to Mobirds. And the phone began to ring, and the texts and emails poured in. I went to bed, but was too excited to sleep. I remember thinking how delighted I would have been to see the Lincoln's Sparrow again, but I got a Western Tanager instead!

I got up around dawn the next day, and once again used my car as a blind. He appeared about twenty minutes later, dropping down through the dogwood, then flying off to the south. I posted his reappearance on Mobirds and got back into my morning routine. I watched the dogwood while I had breakfast, but the Tanager was nowhere to be seen. Five minutes turned into ten, ten into twenty, twenty into forty. Birders began to arrive from around the state, and I passed around a clipboard, hoping to document his visit so new arrivals could tell when he had most recently been spotted. When I
left for work on Monday morning, there were eight cars lining the
duced on the magical dogwood. As I drove off, I had the strange
sense that I was hosting a party I couldn't attend and the guest of
 honor was nowhere to be found.

At work, my phone rarely stopped vibrating. People wanted to know
where was the best place to park, could they arrive before dawn, could they stay until dark, what was he
eating, and how long did I think he would stay. I tried to respond to
each inquiry as soon as I could, but my anxiety was building. I had
seen him just after seven am, and then he disappeared. His
"routine" had been to appear every 30-40 minutes. Now three hours
had passed, and I was still the only person who had actually seen
him. Where had he gone? Was he gone for good? Finally, at 10:20, I
obtained a text from Connie Alwood. Just one, sweet word: Success!

What a relief! Over the next three days, even when I was at work, I
shared in the joy every time somebody new got to see him. Some
texted or called, others emailed or left a few
notes on the clipboard.

More than one hundred birders signed in, noting
the time he was spotted, often with a smiley face. For many it was a life
bird, for most it was a state bird. For others, it was simply a beautiful
bird they hadn't seen in many years. For me, it
was pure joy, knowing that he found what he
needed to rest and refuel in my scruffy suburban
yard. He was last seen on
the evening of April 17, just before a massive
front moved through —

I continued to look for
him at dawn over the next few days, and watched the dogwood every
day after work, just in case he had a change of heart. Birders contin-
ued to arrive, even though he hadn't been seen for several days.
Eventually, I put the clipboard away, smiling as I recalled a text I
had received from Paul McKenzie: "Oh by the way, you have a new
nickname. Pete Monacell says you will be known as the Tanager
Manager!"

Western Tanager photos Diane Bricmont
Ballwin, St. Louis County
THE AUDUBON SOCIETY OF MISSOURI

The Audubon Society of Missouri (ASM) is an independent non-profit 501 (c) (3) organization. ASM is not affiliated with the National Audubon Society (NAS), its state subsidiary Audubon Missouri (AM), or any chapter of NAS.

The Audubon Society of Missouri is the only non-profit volunteer organization in Missouri with a statewide membership of active birders working to locate and study birds, report those findings, participate in bird surveys, and promote bird habitat conservation. The ASM website hosts and routinely updates the checklists for all Missouri state parks.

PURPOSES AND COMPONENTS OF PREVIOUS MEMORANDA OF AGREEMENT BETWEEN MISSOURI STATE PARKS AND THE AUDUBON SOCIETY OF MISSOURI

The purposes of the Memoranda of Agreement between the Missouri Department of Natural Resources (MoDNR) and the Audubon Society of Missouri (ASM) have been to establish, then maintain a database of birds observed on Missouri State Parks (MSP) lands on the ASM website; and to maintain a printable bird checklist with seasonal abundance information, as available, in downloadable form. When Cornell University brought eBird online the purpose was amended and expanded to work with that database, and eventually transfer all bird occurrence data from the ASM designed database into the eBird system.

Measurable deliverables have included:

Multiple year bird surveys conducted in parks as determined by MSP and identified as “core parks,” and additional parks, as stipulated by MSP for special emphasis during specific agreement periods; and
Online links developed by ASM for use on the MSP website for downloadable checklists for each park and historic site; and,

Multiple park visits, researching, writing and placing online birders’ guides to state parks and historic sites as entries into the “Birders’ Guides to Missouri Public Lands” series available to the public on the ASM website and downloadable by MSP personnel and park visitors.

Progress and completion of these measurable deliverables have been described and summarized in two reports submitted by ASM to MoDNR for each agreement period, with payments dependent upon acceptance of the reports and approval of the activities described therein. MSP has selected twenty-six core and special emphasis parks for focused attention during the agreements. ASM has promoted visitation to and birding of them on the ASM supported listserv, updated these parks’ online checklists at least four times a year, and has completed Birders’ Guides for all of them.

ASM maintained a record of volunteer bird survey hours in state parks and historic sites in the SPARKS database site and reported those hours. With the transfer of SPARKS data to eBird the ASM data entry system for SPARKS was disabled, and with it the ability to compute volunteer hours.

The final report for the 2013-2014 agreement period dated November 14, 2014, noted, “Onsite volunteer hours at Missouri state parks since November 2013 [survey time only, travel time not included]: 1,352 hours for all DNR sites; 788 hours for current focus parks in this time period are recorded in the SPARKS database.”

Clearly, the volunteer effort supporting MPS generated by the SPARKS agreements has been significant.

ADDITIONAL ACTIVITIES BY ASM SUPPORTING MSP
CONDUCTED UNDER THESE AGREEMENTS

Group Survey Events

Special intense group survey events were conducted at several parks. These often involved volunteer overnight stays (sometimes in facilities provided free to volunteers by MSP, sometimes in park facilities paid for by volunteers at regular rates). These include Bennett Spring, Current River, Echo Bluff, Ha Ha Tonka, Johnson’s Shut-Ins, Lake Wappapello, Montauk, Sam A. Baker, and Washington. These events have totaled several hundred
hours of volunteer activity.

**In-Kind Contributions to Partnership Projects**

ASM members’ volunteer bird monitoring services in support of projects contributing to MSP’s knowledge of bird occurrence have included many hours at the following parks: Don Robinson, Ha Ha Tonka, Johnson’s Shut-Ins, Pershing, St. Joe, and Taum Sauk.

**Bird Identification Workshops**

ASM co-sponsored several bird identification workshops taught by highly skilled ASM members. These are conducted without a fee to participants, and are open to and attended by MSP personnel. The three most recent were conducted in 2017 and 2018.

**Prompting Birding at Missouri State Parks**

Messages posted by the partnership coordinator to the ASM sponsored Mo-birds listserv encourage birding in state parks of special interest in the agreements, provide links to the Birders’ Guides for those parks, and report bird sightings in them to promote additional birding there.

**Support of the Rock Bridge Memorial State Park Interactive Interpretive Wayside Panel**

ASM contributed $1,000 from its general fund (not SPARKS derived income) toward the development and placement of the panel which includes material provided by ASM members and a QR code link to the SPARKS online checklist for downloading on mobile devices.

**ASM’S USE OF FUNDS EARNED FROM THE AGREEMENT ACTIVITIES**

The total received from MoDNR for the SPARKS program to date is $45,000 over the period of ten years, at the rate of $5,000 per agreement period. The funds ASM has received from MoDNR for the SPARKS program have been used solely for:

Website development and improvements as intended and needed to meet the requirements of the memoranda; and, participation as a funding partner in bird and wildlife education, monitoring and survey activities, and habitat preservation and development.
SPARKS Website expenses
To date, $4,288 has been expended for SPARKS website-related activities. These expenditures include development and improvements of the SPARKS portion of the ASM website, the development, maintenance and updating of the downloadable checklist for each park, and consulting with eBird programmers to advise them of the components of the SPARKS data and to assist them in the transfer of the data into the eBird database.

The data transfer assistance alone required 120 hours of work by the programmer retained by ASM for an annual fee of $500. Funds were held in reserve by ASM to cover the expense of the changeover. The generosity of the programmer in not charging the going hourly rate for the changeover work resulted in a greater amount available for partnership activities than ASM had anticipated.

SPARKS Funded Partnership Activities
Total funds derived from the SPARKS program expended for requested partnership activities as of May 31 2018 total $20,269.

These ASM supported partnership activities have included high school level habitat education delivered by professionals at residential outdoor camps, including hands-on habitat work by participants, scholarships for graduate research in ornithology, and professional level bird population monitoring and surveying.

Partnership activities are approved for funding by the ASM Board of Directors from requests submitted by application as “funding Requests to the Audubon Society of Missouri.”

ASM PARTNERSHIPS APPLYING SPARKS-DERIVED FUNDS*

* ASM has also participated in many additional partnership projects and activities for which SPARKS-derived funds were not used.


Purpose: Green Leadership Academy for Diverse Ecosystems (GLADE) support of 1 student (of 2 supported).
Year Partnership Approved:  2017, for 2018 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University, et al.  Total from ASM SPARKS funds:  $1,500

Purpose:  Missouri River Bird Observatory (MRBO) Educator Support $3,500. 
Year Partnership approved:  2017 for 2018.  
Partners:  MRBO, Friends of Arrow Rock, et al. ASM SPARKS funds (50% of total):  $1,750

Purpose:  Green Leadership Academy for Diverse Ecosystems (GLADE) support of 1 student (of 2 supported). 
Year Partnership Approved:  2016, for 2017 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University Total from ASM SPARKS funds:  $1,500

Purpose:  Green Leadership Academy for Diverse Ecosystems (GLADE) support of 2 students.  
Year Partnership Approved:  2015, for 2016 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University, et al.  Total from ASM SPARKS funds:  $2,500

Purpose:  Green Leadership Academy for Diverse Ecosystems (GLADE) support of 2 students.  
Year Partnership Approved:  2014, for 2015 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University, et al. Total from ASM SPARKS funds:  $2,500

Purpose:  Green Leadership Academy for Diverse Ecosystems (GLADE) support of 2 students.  
Year Partnership Approved:  2013, for 2014 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University, et al. Total from ASM SPARKS funds:  $2,500

Purpose:  Green Leadership Academy for Diverse Ecosystems (GLADE) support of 1 student.  
Year Partnership Approved:  2012, for 2013 session.  
Partners:  Greater Ozarks Audubon Society, MDC, Foundation of the Ozarks, Missouri State University, et al. Total from ASM SPARKS funds:  
$1,000

Purpose: Bird survey volunteer expenses, Golden Grasslands COA
Year Partnership Approved: 2012
Partner: Missouri Prairie Foundation  Total from ASM SPARKS funds: $532 (of $600 authorized)

Purpose: Bauer Graduate Research Scholarship
Year Partnership Approved: 2011
Partners: Individual donors  Total from ASM SPARKS funds: $950

Purpose: Bird Monitoring Van Meter SP, Internship
Year Partnership Approved: 2011
Partner: MRBO.  Total from ASM SPARKS funds: $1,000

Purpose: Bird Survey Work in Confluence Area
Year Partnership Approved: 2010
Partner: USFWS.  Total from ASM SPARKS funds: $247

Iatan/Weston MO River Corridor Area Bird Surveys
Year Partnership Approved: 2010
Partner: Audubon Missouri.  Total from ASM SPARKS funds: $2,000

Purpose: Bird Survey Work in Mystic Area
Year Partnership Approved: 2010
Partner: USFWS.  Total from ASM SPARKS funds: $2,500

Purpose: Bird Survey, St. Francois County
Year Partnership Approved: 2009
Partners: MDC and MoDNR.  Total from ASM SPARKS funds: $400 (of $800 authorized)

Purpose: Bird Survey, Barton & Vernon Counties
Year Partnership Approved: 2009
Partner: Missouri Prairie Foundation.  Total from ASM SPARKS funds: $390 (of $600 authorized)
On 4 March 2019, I observed a Red-breasted Nuthatch (*Sitta canadensis*) at my feeder with an obviously deformed bill that was much longer than normal (Fig. 1). The bird was in my yard only briefly and it is unknown if the bird was able to secure any food from my feeders. Subsequently, I observed the bird on 16 March, 20 March, 4 April, and 13 April 2019 at my sunflower chip feeder (eBird check-
lists: [https://ebird.org/view/checklist/S53918955](https://ebird.org/view/checklist/S53918955), [https://ebird.org/view/checklist/S54060904](https://ebird.org/view/checklist/S54060904), [https://ebird.org/view/checklist/S54546580](https://ebird.org/view/checklist/S54546580), [https://ebird.org/view/checklist/S54905137](https://ebird.org/view/checklist/S54905137). On each occasion, the bird probed into the feeder holes of the feeder and successfully obtained food items. On 2 April 2019 the bird was at the base of a tree under one a suet feeder successfully picking up chips of suet chiseled off by various species of woodpeckers (eBird checklist: [https://ebird.org/view/checklist/S54515762](https://ebird.org/view/checklist/S54515762)). This was the first occasion that I was able to note that the lower mandible was noticeably shorter than the upper mandible (Fig. 2) and this would likely make it more difficult for the bird to obtain food.

Since the late 1990s, there have been observations of numerous species of birds with bill deformities on multiple continents (Handel et al. 2010; Harrison 2011; Van Hemert and Handel 2010; Van Hemert et al. 2012a,b; Gorosito et al. 2016; Zylberberg et al. 2016; Valdebenito et al. 2018; Zylberberg et al. 2018). While it is not unusual for a small percentage of birds (usually < 1%) to exhibit beak abnormalities (see review in Handel et al. 2010), the epizootic outbreak of bill deformities among birds in Alaska and the Pacific Northwest between 1998 and 2008, particularly Black-capped Chickadees (*Poecile atricapillus*), and Northwestern Crows (*Corvus caurinus*) is alarming in the number of birds affected. (Handel et al. 2010; Van Hemert and Handel 2010). Handel et al. (2010) noted bill abnormalities in 2,160 Black-capped Chickadees as well as 435 individuals of 29 other species of birds and named the outbreak Avian Keratin Disorder (AKD), but were unable to determine the etiology of the condition. Similarly, Van Hemert and Handel (2010) reported beak deformities in 212 Northwestern Crows in Alaska, Vancouver, British Columbia, and Puget Sound, Washington. The deformities were likely caused by some novel hyperkeratotic disorder rather than a bacteria, fungus, or virus (Van Hemert et al. 2012a). Zylberberg et al. (2016), however, used unbiased, metagenomic next generation RNA sequencing

![Red-breasted Nuthatch with deformed bill consuming suet fragments](image-url) Paul McKenzie residence, Columbia, Missouri- 2 April 2019

Figure 2. Red-breasted Nuthatch with deformed bill consuming suet fragments.
from Black-capped Chickadees with AKD to ascertain a potential candidate causative agent for the condition and identified a new picornavirus (a family of viruses where vertebrates, including humans are the natural hosts) they named poecivirus. A phylogenetic analysis of the new picornavirus determined that the virus was ancestral to megriviruses, turkey hepatitis virus, and two chicken picornaviruses. Zylberberg et al. (2018) further assessed the possible causative agent for AKD using targeted PCR and sequencing on a larger sample size of Black-capped Chickadees with the abnormality and found that there was a significant positive correlation between poecivirus infection and AKD. While other pathogens could be possibly involved, the identification of a new bird virus associated with bill deformities, especially given the expanding scope of the condition, is very disconcerting. In their naming of AKD, Handel (2010) documented the disorder in Red-breasted Nuthatch and Zylberberg et al. (2018) reported that two Red-breasted Nuthatches with bill deformities tested positive for poecivirus. Thus, my observation of bill deformity of the Red-breasted Nuthatch at my feeders is not the first for the species but is apparently the first record in Missouri. Although I have no proof, the elongated bill of the Red-breasted Nuthatch I observed certainly suggests a case of AKD and is very similar to the photo of the oversized bill of a Red-breasted Nuthatch on page 889 of Handel et al. (2010). The bird at my feeder differs in that the lower mandible is noticeably shorter than the upper mandible (Fig. 3).

Zylberberg et al. (2016) concluded that AKD decreases host fitness and can be fatal. While the magnitude of impact of AKD on North American birds has not yet been determined, possible cases of the condition should be sought and further studied. A continued expansion of AKD in North American species of birds will only add to the negative impact of other infectious diseases such as West Nile virus (LaDeau et al. 2007). Missouri birders are encouraged to document with photographs any bill deformities they observe and report them on eBird.

**Acknowledgements**

*I thank Mary Nemecek and Bill Eddleman for peer reviewing the manuscript.*

**Literature Cited**


Missouri hosted 28 Christmas Bird Counts this past season, the highest number ever with reinstatement of the Kirksville count in the northeast (Figure 1). A total of 547 field participants found 147 species, a number that is about average. Snow was not reported on any counts, and only 3 counts (in the north) reported partly to totally frozen still water. Temperature lows ranged from 19 to 51 F while highs ranged from 26 to 59 F. Mark Robbins reported poor seed and fruit crops on both the Horton-Four Rivers and Loess Bluffs counts.

Overall, it was an uninspiring season. There were not many rare birds reported. The rarest species were a Bewick’s Wren at Joplin, 2 Tree Swallows at St. Joseph, and a Nashville Warbler at Springfield. Other pretty-good birds were 2 Sandhill Cranes at Clarence Cannon and 1 Common Loon at Springfield. Black Vultures were seen on 9 counts (as far north as Columbia and Weldon Spring), Horned Grebe on 7 counts, one each Northern Shrike on 5 counts, and Eurasian Tree Sparrow on 4 counts, including Columbia.

In the Big Table, the column labeled H/L indicates species for which the party-hour-normalized statewide count was significantly (H or L, 95% confidence limit) or very significantly (HH or LL, 99% confidence limit) higher or lower than the average over the past 19 years (but only if the mean number of birds is at least 5). Several species occurred in the lowest numbers (party-hour normalized) that I have reported in the past 19 years (“new low,” below). Species reported in significantly (99% confidence) less-than-usual numbers include American Black Duck (0.35× the 19-year mean), Lesser Scaup (0.12×, 45 birds, new low), Ruddy Duck (0.08×, 11 birds, new low), Northern Bobwhite (0.24×, 62 birds, new low), Wild Turkey (0.52×, 601 birds, new low), Pied-billed Grebe (0.37×), American Coot (0.19×), Wilson’s Snipe (0.12×, 12 birds, new low), Horned Lark (0.16×, 714 birds, new low), Lapland Longspur (0.20×), Savannah Sparrow (0.46×), Harris’s Sparrow (0.24×; 997 birds, new low), Brown-headed Cowbird (0.17×), and Rusty Blackbird (0.52×). Except for Eurasian Collared-Dove and Eurasian Tree Sparrow, five of our “introduced” species were reported in significantly lower numbers than the average: Ring-necked Pheasant (0.14×), Rock Pigeon (0.58×), European Starling (0.26×), House Sparrow (0.47×), and House Finch (0.59×). “Winter birds” not seen at all include Greater Scaup, Northern Goshawk, Snowy Owl, Long-eared Owl, Common
Redpoll, and Evening Grosbeak. Uncommon winter gulls were all but absent except for one Iceland (Thayer’s) at Trimble.

Species that were reported in significantly (99% confidence) greater-than-usual numbers were few. These include Greater White-fronted Goose (2.9×), Ross’s Goose (10.7×; 1671 birds on 7 counts, with 1606 at Loess Bluffs), Trumpeter Swan (2.5×; 10 counts), Tundra Swan (3.9×; 67 birds on 5 counts), Northern Shoveler (2.4×), Green-winged Teal (2.3×), American White Pelican (2.3×; 4 counts, with 395 at Montrose Lake), and Red-breasted Nuthatch (2.7×, with 136 birds on 22 counts, the second highest count in the last 19 years).

Five counts found 90 or more species, with Horton-Four Rivers taking the lead at 105.

\[Figure\ \textbf{1}.\ \textit{Locations\ of\ Missouri\ Christmas\ Bird\ Counts}.\]
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| Field Counters          |  16  |  12  |  15  |  24  |  16  |      |
| Max. Parties            |   5  |   5  |   4  |   7  |  14  |   6  |
| Party Hours             | 44.75| 26.50| 30.25| 56.50| 64.00| 48.00 |
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<td><strong>Total # Species</strong></td>
<td>87</td>
<td>88</td>
<td>87</td>
<td>69</td>
<td>147</td>
<td></td>
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</tr>
</tbody>
</table>

**Count Date**

- 15-Dec
- 22-Dec
- 15-Dec
- 16-Dec

**Field Counters**

- 46
- 37
- 21
- 28

**Max. Parties**

- 46
- 12
- 6
- 14

**Party Hours**

- 173.00
- 104.75
- 50.75
- 60.40

**Party Miles**

- 730
- 610
- 407
- 173

**Total**

- 1509.22
- 7952
The preceding warm spring ushered in the warmest June in 65 years, with above-average temperatures and the 3rd month in a row with below-average rainfall. June finished a full inch below the long-term average. July provided no real respite as the drought intensified, resulting in the worst growing season since 2012. Northern Missouri, where dry conditions had now persisted for over a year, bore the brunt of it. The second half of the month saw some relief with cooler temperatures, but the month still ended slightly above the long-term average in temperature and 1.39 inches below the long-term average in rainfall.

One of the most notable summer records was confirmation of breeding Black-necked Stilts at LBNWR. Chaseable rarities include a Wood Stork at SLNWR and an immature Cave Swallow in rural Bates mid-July. Significant out-of-season species include a June 19 female Red Crossbill at a feeder in Lee's Summit, Jackson, where they were also present last winter. Other birds not usually seen in summer months were a White-throated Sparrow, St. Louis, a late July Common Merganser at Mark Twain Lake, Ralls, an early July Least Flycatcher in Lincoln, and a Brown Creeper at Big Buffalo Creek CA, Benton in early June. Overall the hot and dry summer produced few surprises.

eBird data and seasonal reports submitted from observers around the state remain a primary source for this report. Missouri bird watchers are encouraged to submit their observations through eBird but also to send notes to the seasonal editors, as eBird does not capture all observations. The author is grateful to Bill Rowe and Joshua Uffman for reviewing this document. Their comments and suggestions greatly enhanced the quality of the report.

Note: Records marked with an asterisk (*) require documentation, but no documentation has yet been received by the Missouri Bird Records Committee (MBRC). Observers involved with such sightings are encouraged to submit documentation. The MBRC has received
documentation of those records marked with a dagger (†), and those marked (acc.) have been accepted.

WATERFOWL

Black-bellied Whistling-Ducks were in two locations: 3 at EBCA 8 June (Shelby Thomas); and up to 24 continued their presence from spring through the end of the period, Scott (PM, TK, m.ob.). Waterfowl, presumed injured from hunting season and unable to migrate, lingered into the summer at several locations including a seasonal high of 20 Snow Geese at LBNWR 5 Jun (BJ, PM) and 15 at OSCA 5 Jun (KL). A lone Ross’s Goose was reported 22 Jun at Hollister’s Lake, Adair (Rachael Casey). Single Greater White-fronted Geese were listed 3 Jun at RMBS (Dave Gibson); 6 Jun at Simpson Park St. Louis (David Rudder); 9 Jun at Branson Lake Taney (Charlotte Croshaw); 6 - 9 Jun at Pascola Bar Pit Pemiscot (TJ). Blue-winged Teal were observed in 10 counties (m. ob.), including a seasonal high of 60 late migrants at LBNWR 3 Jun (RB). Northern Shovelers were reported in 8 counties, LBNWR having the most consistent presence of up to 7, 2 Jun- 1 Jul. Gadwalls were present in three locations: Lewis and Clark SP, Buchanan, on 8 Jul (KC, DP); EBCA with a single bird 1 Jun (KA, Betsy Garrett, BJ), 2 on 3 Jun (Larry Olpin); LBNWR with 10 on 3 Jun (JHa), 2 on 5 Jun (BJ, PM), 7 on 8 Jun (Shelby Thomas) and 2 on 8 Jun (BJ). A lone American Wigeon, casual in the NW during summer, was reported at LBNWR on 12 Jun (BJ) with 3 seen at Maryville Sewage Lagoons, Nodaway, on 28 Jun (KL). Green-winged Teal, a rare summer visitor in the NW, were observed at LBNWR with a single 5 Jun (BJ, PM) and 3 on 12 Jun (BJ). Lone birds were also present at EBCA 8 Jun (KA, Shelby Thomas) and 9 Jun (Donna Brunet, Jim Gast) and at Fountain Grove CA, Linn, 12 Jun (BJ). Ring-necked Ducks, rare statewide, were spotted in four locations: LBNWR with 2 on 3 Jun (JHa), 3 on 5 Jun (BJ, PM); 1 at Marais Temps Clair CA, St. Charles 17 Jun (Mike Brady); 1 at SLNWR on 25 Jun (BJ); and 4 on 28 Jun at the Maryville Sewage Lagoons, Nodaway (KL). Also rare statewide, Lesser Scaup, in singles or as a pair, were reported from five counties: EBCA hosted a single bird on 15 Jul (PM, Austin Lambert), 19 Jul (KA), 30 Jul (Kai Frueh); 1 at Binder Lake, Cole, on 2 Jul (PM); 2 at Little River CA, Dunklin, on 29 Jun (MH, AG), 3 and 5 Jul (Kent Freeman), and again on 11 Jul (TJ);
1 at BK Leach CA, *Lincoln*, on 17 Jun (Bruce Schuette); 2 at Maryville Sewage Lagoons, *Nodaway*, on 28 Jun (KL). **Hooded Mergansers** were seen in 11 counties including throughout Jun at LBNWR with a high of 40 on 4 Jun (BJ, PM). A casual in summer, male **Common Merganser** was the 7th summer record 3 Jun - 28 Jul, Mark Twain Lake, *Ralls* († ph. Ashley Casey, Cory Gregory, ph.) **Ruddy Ducks**, considered rare summer visitors, were observed in 6 counties: 1 at Bradford Farm, *Boone*, on 4 June (KA); 2 on 28 Jul at SLNWR (Mike Grant); 1 on 29 Jun at Little River CA, *Dunklin*, (AG, MH); 1 at LBNWR on 3 Jun (RB); 1 at CCMWR on 2 Jun (CMc, AR); 1 on 28 Jun at RMBS (Elaine Hendricks) and 4 on 31 Jul (Doug Hommert).

**GROUSE THROUGH WADERS**

A single **Greater Prairie-Chicken** was at Dunn Ranch, *Harrison* 3 Jun (Mark McKellar, David Kirsch, Ruth Simmons, Mike Stoakes, Sharon Snively, William Kirsch and Francis Pease).

Lone **Neotropic Cormorants**, rare in the west, were seen at Shell-Osage CA, *Vernon*, 6 Jul (BJ, PM), and 10 Jul on the *St. Clair* side (KL); and at Lake Springfield, *Greene* on 7 Jun (KL, GSw) and 14 Jun (GSw). A solitary **Anhinga** was in *Dunklin* from 26 Jul through the end of the period (Kent Freeman, PM, PMc, ph., m.ob). An **American Bittern** was at LBNWR on 3 Jun (JHa). **Least Bitterns** were in 8 counties including a seasonal high of 12 at LBNWR on 17 Jul (Craig Hensley, Terry Lashley). **Snowy Egrets** were observed throughout the period along the major rivers and wetlands with the count topping out at 86 at MNWR on 27 Jul (Reva Dow). **Little Blue Herons** were in 20 counties, primarily in the east. The only observation away from there was a single bird in *Johnson* 2 Jul (Dan Cowell, Varick Cowell). The **White Ibis** high count for this season was 5 at Duck Creek CA, *Wayne*, on 17 Jul (Michael Taylor). Four birds were reported on 10 Jul at MNWR on 19 Jul (DM, SM) and one at Duck Creek CA, *Bollinger*, on 27 Jul (Rob Francis).
VULTURES THROUGH CRANES

Single Black Vultures at Route 66 SP 10 June and another in Eureka 17 June added to the few St. Louis records (Josh Uffman). The only Osprey north of the Missouri R. were single birds at LvL on 5 Jun (KD) and 29 Jul (Meg Ocampo, Nathan O'Reilly) and at LBNWR on 2 Jun (Dan Staples). Mississippi Kites were commonly seen in counties along the Missouri and Mississippi R. corridor, including suburban and urban areas (eBird Basic Dataset). The seasonal high count of 31 was of birds in flight over an abandoned orchard near Snake Hill Cape Girardeau 26 Jun (Ida Domazlicky). Single Northern Harrier reports came from; Knob Noster SP Johnson 1 Jun (Rod Barbo); 11 Jun (JH)-24 Jul (Logan Parr) at Shawnee Trail CA, Barton; Wah'kon-tah Prairie, St. Clair 1 Jul (JH); Johnson 4 Jul (Larry Olpin); 7 Jul at Prairie SP, Barton (Jeff Cantrell); 15 Jul in St. Louis (Stephen Aubuchon) and 27 Jul MNWR (Rob Francis). North of the Missouri river, where they are a rare summer resident, individual Broad-winged Hawks were at Thousand Hills SP, Adair, 23-25 Jul (PK), and at Lakewood Lake, Clay, on 27 Jul (Steve Bingham). Swainson's Hawk was reported in numbers from one to three in 7 counties, all in the SW with the exception of the expected observations in Platte, most notably around MCI airport (eBird Basic Dataset) and 1 in Cooper on 30 Jun (Hannes Leonard). King Rails, declining in region, were at LBNWR with 1 on 1 Jul (Sam Manning); BK Leach CA, Lincoln, with 6 on 11 Jul (BJ, PM), 2 on 12 Jul (DBr), and 1 on 22 Jul (PM, Austin Lambert); and in Pike with single birds at CCNWR on 2 Jun (CMc, AR) and Ted Shanks CA on 21 Jun (Mike Flashpohler). Common Gallinules were only noted in Boone and Holt (eBird Basic Dataset, m.ob.) with a seasonal high count of 5 at LBNWR on 4 Jul (Charlotte Ross) and on 8 Jul (JHa). Reports of Sandhill Cranes came from six , with 4 the largest number reported this season at LBNWR on 4 Jul (Charlotte Ross) and on 14 Jul (Mark Johnson). An adult with a colt was seen at SLNWR on 27 Jul (BJ, PM, PMc). MDC reported 3 the morning of 23 Jul at BK Leach CA, Lincoln, (BR, TP).

SHOREBIRDS THROUGH GULLS

American Golden-Plovers were reported in 4 locations: 1 at EBCA on 9 Jun (KA); 1 at LBNWR on 12 Jun (BJ); Dunklin had singles in two locations 9 Jul and 2 birds on 3, 4 and 9 Jul, all by TJ; and Pascola Bar Pit, Dunklin,
had 1 present on 16, 20, 23, and 26 Jul (TJ). Single **Semipalmated Plovers** were at RMBS 21 Jul (CMc, AR) and CCNWR on 28 Jul (David Rogles). **Black-necked Stilts**, accidental in the NW, became a confirmed breeder at LBNWR with at least 4 nests on the refuge (*Justin Barry). This is only the second confirmed breeding record in the NW, with the previous record also from *Holt* in 2010. **American Avocets** were seen in low numbers at 5 locations; 9-10 at LBNWR on 2 Jun (Dan Staples, Kenneth Bader); 1 at HFRCA on 6 Jul (BJ, PM); 4 at RMBS on 7 Jul (CMc, AR); 1 at Bakerville Bar Pit, *Pemiscot*, on 14 Jul (Kent Freeman); and 4 at Fountain Grove CA, Linn, on 27 Jul (BJ, PMc, PM).

**Buff-breasted Sandpipers** returned to the SE corner of the state until 29 Jul with 5-7 birds at Bakerville Bar Pit, *Pemiscot*, (Kent Freeman, TJ). **Willets**, rare in the east, were 1-4 birds at RMBS 30 Jun --2 Jul (CMc, AR, m. ob.). A single **Wilson's Snipe** was spotted at Bakerville Bar Pit, *Pemiscot*, on 8 Jul (TJ). One **Wilson's Phalarope** was seen at CCNWR on 28 Jul (David Rogles). **Ring-billed Gulls** were present at lakes and rivers, especially RMBS, where a seasonal high count of 271 were present on 26 Jul (Jeff Cantrell). A **Laughing Gull** was reported at Winfield Lock & Dam 25, *Lincoln*, on 2 Jun (CMc, AR).

**TERNS THROUGH CREEPERS**

**Least Terns** did not stray from the Mississippi R. with a high count for the season of 53 at Riddles Point Sandbar, *New Madrid* 29 Jul (TJ). **Caspian Terns** turned up in 7 counties with no more than two birds reported at any one location (eBird Basic Dataset). **Forster's Terns** were also spotted in 14 counties, all in the SE or W with the exception of one bird at SLNWR on 27 Jul (BJ, PM, Paul McKenzie) and one reported at RMBS on 15 Jul (Michelle Jett, Aerin Tedesco). An immature **Wood Stork** (acc.) became the 9th record in the past 25 years when it spent 26-30 July at SLNWR (PMc† ph., Ron Conner†, Steve Whitson, BJ, PM). Single **Black-billed Cuckoos** were reported at the following locations: LBNWR on 3 Jun (JHa) and 5 Jun (BJ, PM); 7 Jun Talbot CA, *Lawrence*, (JH); an unknown number at RMBS on 27 Jun (Doug Hommert). **Greater Roadrunner** made its way into five counties, *Barry, Greene, Oregon, Stone*, and *Taney*, with all reports numbering 1-2 birds (eBird Basic Dataset). Single **Barn Owls** were reported in the following locations: Sugar Creek CA, *Adair*, on 15 Jun (Julia Wilson); Bray CA, *Phelps*, on 4 Jul (DBr); 13 Jul in *Dunklin* (Kent Freeman); in *Barton* on
14 Jul (Emily Sinnott) and at Shawnee Trail CA, Barton, on 24 & 27 Jul (Logan Parr). There were also at least 5 young brooded in Clinton (m.ob.). One of the Peregrine Falcons mentioned in this report last year as banded on 23 May 2017 at the American Century Investments Building, Jackson, was photographed on top of the Comerica Bank Tower in downtown Dallas, TX on 14 Nov 2017 (Katherine Unmuth, ph). The only sighting of an Olive-sided Flycatcher was a single at Hoot Owl Hollow Farm, Cass, on 4 Jun (Ginny Culver). The first week of June also saw single Yellow-bellied Flycatchers: CBCA on 2 Jun (Mike Thelen); Tower Grove Park, St. Louis City, on 4 Jun (Leon Book); Johnson on 4 Jun ( Roxanne Stockdall); LBNWR on 5 Jun (BJ, PM). That week also hosted all the Alder Flycatcher reports: 1 Jun at Lane Springs- Yancy Mills, Phelps, (Jerry Decker) and 4 Jun at EBCA (BJ). Scissor-tailed Flycatcher expanded on its presence last year in Dunklin with reports of one bird on 7 and 24 Jul (Kent Freeman) and 30 Jul (TK). An accidental in summer, Least Flycatcher (acc.) was reported on 8 Jul at Cuivre River SP, Lincoln († Bruce Schuette). Loggerhead Shrikes were reported in singles and pairs in 17 counties with a season high this year of five on 5 Jun in Dunklin (TJ) and 7 Jun in Lawrence (Rita Boxer, Janice Greene). Bill Rowe and TP had an aggregation of at least 2,000 swallows resting on the tops of cornstalks in a cornfield at GTI, 30 Jul. They estimate at least half were Cliff Swallows with another quarter being Bank Swallows with small numbers of Tree and Barn Swallows mixed in. An immature Cave Swallow (acc.) made for a worthy chase and a second state record (first of the subspecies), 14-19 Jul in rural Bates († ph, BJ, PM, KL, † Paul McKenzie, DM, SM). The eighth modern record of a summer Brown Creeper (acc.) came 3 Jun when a single bird was see at Big Buffalo Creek CA, Benton, († Marge Lumpe, Susan Schreck, Jane Neale, Missy Zimmerschied)

WRENS THROUGH SPARROWS
The only report of Marsh Wrens came from RMBS with 2 on 30 Jul (Bryan Prather). Bewick’s Wrens were present in 9 counties with counts of only 1-2 birds; Christian, Crawford, Dade, Franklin, Greene, Hickory, McDonald, Maries and Phelps (eBird Basic Dataset). Ovenbirds were once again locat-
ed in 2 counties in the north where they are rare: *Adair* where Sugar Creek Subdivision hosted 2 on 1 Jun and 1 on 12, 13 Jun and 7 Jul (PK), Sugar Creek CA had 6 on 3 Jun, 3 on 5 Jun, 3 on 6 Jun (Julia Wilson) and 2 on 1 Jul (Andrew Hodge), Thousand Hills SP had 2 on 10 Jun (Julia Wilson); and Deer Ridge CA, *Lewis*, had 1 on 15 Jun (Julia Wilson). **Swainson's Warbler** reports came from two counties: *Oregon* with 1-2 on 6 Jun on the Eleven Point River (Andrea Schuhmann); and *Shannon* with 1 reported on 6, 8, 14 and 19 Jun (David Hollie). The most northern reports of **Hooded Warbler** was found at two locations in *St. Louis*: Castlewood SP on 2, 3 Jun and 1 Jul (Mike Brady), 6 Jun (Natalie Rekittke), and 10 Jun (John Haycraft); World Bird Sanctuary on 6 and 7 Jun (Michael Adams). The only report of a **Pine Warbler** away from the Ozarks was 1, 3 Jun at Rocky Fork Lakes CA, *Boone*, (Dawn Huber). A female **Red Crossbill** (acc.) became at least the 13th summer record when it visited Ruth Simmons' feeders on 19 Jun in Lee's Summit *Jackson* († ph.). **Grasshopper Sparrows** had observations from three SE counties where it is rare: *Cape Girardeau* with a single bird observed at residence from 5 Jun- 5 Jul and 2 birds on 10 Jul (AG); *New Madrid* with 2 on 24 Jul (TK); Sand Prairie CA, *Scott*, with 2 birds on 9 Jun (MH) and 4 Jul (Allan Trently) and 1 on 16 Jun (Michelle Randecker, Joe Sueme) A single **White-throated Sparrow** (acc.), casual in summer, was reported at Castlewood SP, *St. Louis*, on 8 Jun (†John Nash) becoming at least the 12th summer record. **Painted Buntings** in the southwest corner of the state had a presence in *Benton, Greene, Howell, Newton, Ozark, Stone* and *Taney* with a high of 8 birds Rozell Road, *Taney*, 16 Jun (BB, DBl).

**Observers:**
Kathleen Anderson (KA), Barbara Blevins (BB), David Blevins (DBl), Diane Bricmont (DBr), Robert Brundage (RB), Kathy Carroll (KC), Karen Davis (KD), Allen Gathman (AG), Mark Haas (MH), Jennifer Hammet (JHa), James Heuschkel (JH), Peter Kondrashov (PK), Brad Jacobs (BJ), Tim Jones (TJ), Tim Kavan (TK), Andrew Kinslow (AK), Kendall Loyd (KL), Charlene
Malone (CM), Jim Malone (JM), Steve Martin (SM), Debbie Martin (DM), Chrissy McClarren (CMc), Paul McKenzie (PMc), Pete Monacell (PM), Tom Parmeter (TP), Diane Persons (DP), Andy Reago (AR), Bill Rowe (BR), Greg Swick (GSw).

Key
*  = Documentation needed for MBRC review but not yet received
†  = Documentation received by MBRC
acc. = Record accepted by MBRC

Abbreviations
CA-Conservation Area
CBC-Christmas Bird Count Co-County
Imm. Immature
m.ob. Multiple observers
NWR- National Wildlife Refuge
MBRC-Missouri Bird Records Committee
ph. photographed
SP-State Park

Location Abbreviations (counties are in italics)
CBCA-Columbia Bottom Conservation Area, St. Louis
CCNWR-Clarence Cannon National Wildlife Refuge, Pike
CSP-Confluence State Park, St. Charles
DCCA-Duck Creek Conservation Area, Bollinger/Stoddard
EBCA-Eagle Bluffs Conservation Area, Boone
GTI- Grand Tower Island, Perry
HFRCA-Horton-Four Rivers Conservation Area, Vernon
LBNWR- Loess Bluffs National Wildlife Refuge, Holt
LBL-Long Branch Lake, Macon
LvL- Longview Lake, Jackson
MLCA- Montrose Lake Conservation Area, Henry
MNWR-Mingo National Wildlife Refuge, Stoddard/Wayne
OSCA-Otter Slough Conservation Area, Stoddard
RMBS-Riverlands Migratory Bird Sanctuary, St. Charles
SLNWR-Swan Lake National Wildlife Refuge, Chariton
SL-Smithville Lake, Clay
STJ- St. Joseph

References:
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