

# The Brown Pelican



The Newsletter of the Golden Triangle Audubon Society

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Vol. 29 No 6

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## Summer Break!

There will, as usual, be no membership meetings in June or July. Our next meeting will be on **THURSDAY, AUGUST 17, 2023** at 7:00 p.m. in the Garden Center, Tyrrell Park, Beaumont, Texas. Michael Cooper will present a program on the birds of Costa Rica.

We are always looking for programs that will be of interest to our members, so please let us know if you have a program to present, or know of someone who can.

The next issue of the *Brown Pelican* will be a combined July/August issue, to be published in early August.

## Golden Triangle Audubon Facebook

We have a very active Golden Triangle Audubon group on Facebook, moderated by Jana Whittle and John Mariani. Our aim is to provide a space for people around the Golden Triangle to share pictures, sightings, and other information about birds, other nature, and local birding sites and habitats. This is a unique opportunity to share your pictures of birds with other members and followers of Golden Triangle Audubon. While we make a special effort to feature unusual birds seen in the Golden Triangle area or nearby, there are no hard and fast rules about what can be contributed. All levels of pictures are welcome, especially of less common birds, and there is a large number of followers from outside the immediate area! If you are looking for help with identification, please include the location and date of the picture, as both are important in narrowing the possibilities. You can send your contribution through a Facebook message or in an email directly to the moderators or to [gtaudubon@aol.com](mailto:gtaudubon@aol.com).

## Tyrrell Park Nature Center Programs

Attached to this digital issue of the *Brown Pelican* is a flyer for a series of Saturday summer programs at the Tyrrell Park Nature Center for 5- to 10-year olds.

## *. The Brown Pelican*

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### Golden Triangle Audubon Society

Web Site for more information  
[www.goldentriangleaudubon.org](http://www.goldentriangleaudubon.org)

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## Calendar of Events

*Important Note: Field Trip notices published here are subject to last minute changes. Changes will always be posted on the web site at [www.goldentriangleaudubon.org](http://www.goldentriangleaudubon.org).*

### Future Programs and Field Trips.

#### Saturday August 5, 2023. Field Trip to Liberty Area.

During the first half of August each year, Swallow-tailed Kites congregate in the Trinity River bottomlands between Liberty and Dayton for two or three weeks before they migrate south for the winter. We will also be on the lookout for Wood Storks and even Limpkins.

We will meet at 8:00 AM at the McDonalds at 1923 Highway 90 in Liberty. This is on the north side of the Highway at the intersection with Travis Street, one block west of Main St. The trip will probably not last much beyond noon.

We will check the area along Highway 90 between Liberty and Dayton, perhaps several times, and also the Liberty Municipal Park area. The relatively new Knobby Knees trail and boardwalk of the Trinity River NWR can be easily accessed from the Park. The part of the trip looking for kites does not necessitate extensive walking, but the trail does. We will check the trail for early migrants and a few other songbirds that may well nest in that area. In addition to the Swallow-tailed Kites, there will typically be Mississippi Kites flying low over the residential areas of Liberty north of US 90.

Typically, the group proceeds to Jax Hamburgers in Liberty for lunch.

**Thursday August 17, 2023. Membership Meeting. Birds of Costa Rica. Michael Cooper.** Further details in next issue. )

**Saturday August 19, 2023. Tentative Date. Field Trip to Bolivar Flats.** Meet the leaders at the vehicle barrier at Bolivar Flats at 8:30 a.m. Take Highway 124 south from Winnie about 20 miles through High Island. At the

shoreline, turn right along Highway 87 and proceed approximately 25 miles through Gilchrist and Crystal Beach until you come to the intersection with Loop 108. At that intersection, turn left (south – the opposite direction from Loop 108) on Rettilon Road to the beach. If conditions permit, drive onto the sand and turn right to the vehicle barrier (about 1/2 mile). It is about a 90-minute drive from Beaumont or mid-County to the Flats.

Often, after birding the flats, the group proceeds to the Big Store or to Fort Travis to use the facilities and eat lunch. Many participants will bring their lunch, as options to purchase are limited.

The group may stop at Rollover Pass and may possibly visit High Island on the way home, checking there for very early southbound migrants

*To park on the beach, you will need a Galveston County Beach Parking Permit, obtainable for \$10 from most merchants on the Peninsula. (The Big Store opens at 7:00 a.m.)*

**Thursday September 21, 2023. Membership Meeting.** Details in the next issue of the *Brown Pelican* and on the web site nearer the time

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## Field Trip to Hardin County – 20 May 2023

The Golden Triangle Audubon Society's Hardin County field trip is often seen as the last bit of "good" birding before the doldrums of summer set in. Summer in southeast Texas means hot, humid days, lots of bugs and fewer birds than in the spring and many birders just skip it and wait for fall. But if it is the end, then it is best to at least go out on a high note! More than a dozen birders assembled in Silsbee ready to do exactly that!

The parking lot where the group traditionally meets does not appear to be a birding hotspot but some birds can be had there that will not be seen elsewhere on the trip. Fish Crow distinguished itself from the nearby American Crows with its persistent calling. Fish Crows have been expanding their range in recent years and have become expected on this trip. House Sparrows and European Starlings are urban species not seen in the woodland habitat searched on most of this trip but are easily found here. A Barn Swallow flying by and Purple Martins circling overhead are also expected. Northern Mockingbird is also more easily seen here than in the later parts of the trip. This is also often the only place to find a blackbird of any kind! It is not often that one must search for blackbirds in southeast Texas!

This trip is usually conducted in the following manner: drive rural, wooded roads stopping at creek crossings, certain habitat types or whenever an interesting bird was heard or seen. One of the first stops, a creek crossing, did not produce the hoped for Kentucky Warbler but the calling Swainson's Warbler refused to come out to be seen. It did however allow great looks at three Mississippi Kites perched in a dead tree by the roadside. Raptors were not abundant on the day but these graceful birds allowed long looks and plenty of photos. Mississippi Kite is another species that has expanded its range in the last twenty years or so and are now common summer birds in the area. They feed mostly on large insects like cicadas and dragonflies catching them in the air or snatching them from the tops of trees. It is a species that has learned to tolerate living near people and can be found nesting in backyards, golf courses and any area with large trees adjacent to fairly open areas.

Plenty of other good birds were found on the trip though not all were very cooperative. White-eyed Vireos called from every stop but only a couple were seen. A Wood Thrush or two were heard singing their ethereal song but did not come out for the party. Yellow-breasted Chats were also often heard but not seen. Indigo Bunting did eventually show off for the birders providing good looks for all. A pair of Summer Tanagers were located and gave good looks as did a few Carolina Chickadees. Tufted Titmouse were more heard than seen while a Yellow-throated Vireo gave a pretty good look. Brown Thrashers, Blue-gray Gnatcatcher and Carolina Wren were among the other species noted on the day. Red-headed Woodpecker was spotted by some but was not cooperative.

The main point of the field trip is to find the breeding warblers of the Big Thicket region. There are a dozen species of warbler that are theoretically possible in the area but some area more common than others. Common Yellowthroat is more easily found in the marshes closer to the coast while Pine Warbler is easily found throughout the region (anywhere with

pine trees). American Redstart and Worm-eating Warbler are usually found just a bit north of the field trip area. Louisiana Waterthrush is likely in the area but further up the various creeks away from the roadsides. That leaves eight species as primary targets. Hooded is relatively easy, at least to hear. It can sometimes be difficult to see (unlike in migration). On this trip, Hooded was seen though the bird rarely stopped moving long enough to get a good look. A couple of Kentucky Warblers were heard but only one came out for a look. It was not easy, but most of the group eventually got a look or two at the bird. Swainson's Warblers were heard in a number of locations, generally near creek crossings. Like the Kentucky, only one really came out of the dense brush but most of the group saw the bird well. The group never did find a Prothonotary Warbler despite what seemed to be appropriate habitat.

The bridge over Beech Creek often provides a bounty of species and this day was no different. A Northern Parula was heard first and, soon, it was being seen by the entire group in the trees overhead. A pair of Yellow-throated Warblers turned up next and put on quite a show for the assembled group. Warblers were not the only birds seen at the creek. Red-eyed Vireo was found here as well and a pair of Great Crested Flycatchers were easily seen. An Acadian Flycatcher was seen and heard as is usual at this location. One of the biggest surprises of the day was a cooperative Philadelphia Vireo at the creek. There are not usually a lot of migrants seen on this trip so this species was a welcome addition to the day list.

But no Prairie Warbler had been seen yet. All the usual spots were too grown up to be ideal habitat for this species that favors young pine trees and no Prairies were heard singing. One final check was made on Matigwa Road but none were found – at first. The group decided to try a spot just a little further down though it looked too sparse to be good Prairie Warbler habitat. But when the group arrived, there was a Prairie Warbler singing! It came out and the whole group got great looks at this specialty bird! With seven warbler species under the group's belt including the coveted Prairie, the birders wrapped up the trip. There were a few species missed but overall, it is hard to imagine a better bird haul than on this year's trip. And the Golden Triangle Audubon Society will do it all again next year!

The following species were recorded by the trip leaders:

Mourning Dove (6); Great Egret (2); White Ibis (1); Cattle Egret (3); Black Vulture (6); Turkey Vulture (2); Mississippi Kite (4); Red-headed Woodpecker (2); Red-bellied Woodpecker (6); Downy Woodpecker (1); Pileated Woodpecker (2); Eastern Wood-Pewee (2); Acadian Flycatcher (3); Great Crested Flycatcher (2); White-eyed Vireo (15); Yellow-throated Vireo (2); Philadelphia Vireo (1); Red-eyed Vireo (3); Blue Jay (6); American Crow (7); Fish Crow (1); Crow Sp. (5); Purple Martin (4); Barn Swallow (2); Carolina Chickadee (7); Tufted Titmouse (3); Blue-gray Gnatcatcher (5); Carolina Wren (10); European Starling (10); Brown Thrasher (1); Northern Mockingbird (2); Wood Thrush (3); Yellow-breasted Chat (5); Swainson's Warbler (7); Kentucky Warbler (2); Hooded Warbler (9); Northern Parula (1); Pine Warbler (10); Yellow-throated Warbler (2); Prairie Warbler (1); Summer Tanager (2); Northern Cardinal (10); Indigo Bunting (2); Common Grackle (1); House Sparrow (2)

*Steve Mayes*

# Jefferson County Spring Migration Count – 13 May 2023

*This is the longer version of this analysis and discusses in more detail the apparent trends in migration timing and possible local bird population changes that are suggested by the results of this count.*

World Migratory Bird Day, also called International Migratory Bird Day or Global Big Day by various organizations, is celebrated on the second Saturday in May and so varies from 8 May to 14 May. It was chosen to occur at the peak of spring migration of passerine species in the Northern Hemisphere, but as such it falls 10 to 20 days later than the peak on the Gulf Coast. This year it was almost as far into May as the second Saturday can be, and this analysis attempts to take that into account.

Spring migration in Southeast Texas is heaviest over a relatively short time period. The last two weeks in April are likely to provide the best birding for migratory land birds, although they do not coincide with the heaviest flow of migrants over the Gulf. Heavy flows extend well into May, and the genetically imprinted drive to reach the breeding locations increases. The quality of the birding is influenced by the number of birds that stopover at the coastal "migrant traps." For those species that fly across the Gulf – most of the migrants that are seen in the coastal Southeast Texas hotspots – the trip can challenge the physical abilities of the birds. Most passerine species can fly at about 25 to 30 mph, while surface winds across the Gulf in spring can vary up to and even in excess of 30 mph. The ground speed achieved by a migrant is a combination of its airspeed and the wind at their location. In spring, the prevailing winds, most of the time, have a significant favorable southerly component, increasing the ground speed and reducing the time required to cross the Gulf. Birds apparently do not leave the Yucatan if the wind there has a significant northerly component. But it is unlikely that birds have any way of determining if the winds further into the Gulf are favorable. On encountering adverse winds, a migrant may have to fly non-stop for 24 hours or more to reach the Texas or Louisiana coast. It seems likely that on encountering northerly winds, at least some migrants turn west to reach the Central or Lower Texas Coast.

So, the wind conditions, not always known to us in detail in the Central Gulf, are key to determining when and if there are likely to be migrants making landfall on the Upper Coast. In spring, cold fronts move in a generally southerly direction, and if one reaches the coast (or even goes on into the Gulf), migrants are likely to descend into the first land they see and be detected by birders. On the other hand, if there are favorable winds, migrants are likely to press on flying further into the US. The driving force to get to the breeding grounds increases as spring progresses, and the likelihood of adverse winds as a result of a cold front decreases, so more birds overfly the coastal areas. But a lot of migrants can still descend into the coastal areas well into May in the event of adverse wind conditions, even though that becomes less and less likely as spring progresses. So, the chances of a lot of migrants in the coastal hotspots decreases, as does the chance that such an event occurs on count day, especially if count day is later in May. Just to complicate the issue, whether or not birds have accumulated at the take-off areas in the Yucatan awaiting more favorable conditions is almost completely

unknown to observers at the Texas coast.

The first thing most look at in count results is how many species were seen. The 168 species in 2023 is obviously a low number, but the almost complete absence of migrants at Sabine Woods was a major factor, probably reducing the count by ten species over a day with a more normal mix of migrants. There were no significant weather or wind events. Somewhat more concerning is that the overall number of birds seen appears to be very low, and on review, we do not see that any of the "abundant" species (various blackbirds/grackles, Cattle Egrets and the like) were in particularly low numbers, although the observers in the western part of the county felt that there was a shortfall in "blackbirds" (in the very general sense) and Cattle Egrets. Shorebirds were seen in relatively low numbers, but overall, the low total seems to be a result of low numbers across most species groups. We will be watching this aspect of future counts closely. The available habitat in the count is being slowly decreased by increased urbanization.

Not unexpectedly considering the late count date, ducks were in short supply. There were no Wood Ducks seen in Cattail Marsh and a lowish number of Blue-winged Teal in all the usual locations in the county. After four low years of concern, it was encouraging to see Mottled Ducks in more normal numbers. There are often one or more Lesser Scaups remaining, but not this year.

The number of Rock Pigeons was back to normal after a few low years, but that species frequents areas where coverage tends to be low. Eurasian Collared-Doves were found in the same reduced numbers as in the last two or three years. White-winged Dove numbers continued a decline that began around 2017, although there are still plenty to be seen. Mourning Doves rebounded after four low years.

King Rail numbers were marginally low, but Clapper Rails numbers were exceptionally low. The vegetation at Cattail Marsh, with a lot of Water Hyacinth may well have been the major factor in low numbers of American Coot, but was certainly the factor in the record number of Purple Gallinules with 81 in Cattail Marsh. The numbers were only in single digits 20 years ago!

Black-bellied Plovers were in good supply in wet fields in the west part of the county, but for the first time in four years, no Golden Plovers were found. Snowy plovers used to be in good numbers on the Sea Rim beaches, but none were seen. Only two years in the last eight have there been any on Sea Rim. One Wilson's Plover was the only one, somewhat surprising for so far into May. Semi-palmated and Piping Plovers were, however, in normal numbers.

One Upland Sandpiper, infrequently found on the count was all the more surprising on the late date of the count. Hudsonian Godwits are seen most years, but three was a low number. Ruddy Turnstone numbers were very high, frequenting wet fields in west Jefferson County in addition to the Gulf beaches. Sanderling numbers did not rise to normal, nor did Least Sandpipers. White-rumped Sandpipers were present but in smaller numbers than would have been

expected, given the extensive wet fields in the western sections. The absence of any Western Sandpipers is strange, especially in view of good numbers of Semi-palmated Sandpipers. Some Westerns can usually be found in beach areas throughout the summer.

All Wilson's Snipe have usually left the county well before the end of April, but one was found in west Jefferson County, a new species for this count. Wilson's Phalaropes are a feast or famine species in Jefferson County, sometime in large numbers, but often absent, as in the past two years. This year, Sea Rim had 14. Other shorebirds were unremarkable – Spotted Sandpiper, both yellowlegs species, and Willets were there, but no Solitary Sandpiper was found.

Laughing Gull numbers were modest, no Ringed-billed Gulls were found, but there were several Herring Gulls. Least Tern numbers were low, and there were only four Caspian Terns, but Forster's and Sandwich Terns were in expected numbers. Black Terns were normal in the beach areas, but scarce in the inland areas.

The first Magnificent Frigatebird since 2015 was recorded. A normal number of Anhinga was found. Neotropic Cormorants were about average, but no Double-crested Cormorants were detected. Brown Pelicans, however, were in very high numbers in the beach areas.

Least Bitterns were in the Sabine Pass area, but Great Blue Herons have become scarce over the last three or four years. Great Egret numbers have not changed much over the last few years, but Snowy Egret populations have exploded. Reddish Egrets have not normally been seen in spring, but two were found this year. Cattle Egret numbers overall appear to have more or less stabilized.

White Ibis numbers were double the recent average. One Glossy Ibis was detected among the dark Ibis at Cattail Marsh, a normal occurrence these days. The numbers of Roseate Spoonbills that we detect are highly variable; this year's numbers were high and concentrated in the wet fields in the western part of the county.

Both species of vulture were well represented. Both species used to be found mostly north of Jefferson County, but seem to be moving south, especially the Black Vultures. Ospreys used to be quite scarce after mid-spring, but some appear to be remaining and possibly breeding. One Swallow-tailed Kite was seen in west Jefferson County. The number of Mississippi Kites appears to be significantly increasing. Most years, there is a very small number of Northern Harriers and a small number of Cooper's Hawks that remain in the county, so finding one of each was normal, but not finding a Bald Eagle has become unusual. Six White-tailed Hawks suggest that the species is becoming firmly (re)established in Jefferson County. Swainson's Hawk numbers seem stable, while Broad-winged Hawk seem to be hanging on in very small numbers. Summering Red-tailed Hawks were increasing very significantly in recent years, but appear to have gone back down.

Red-headed Woodpeckers increased quite dramatically immediately after hurricanes damaged many trees, but have subsequently declined. The decline appears to have been arrested. Red-bellied and Downy Woodpeckers remain stable, while Pileated Woodpecker numbers have declined. Crested

Caracara numbers continue to increase as the species continues to spread east.

Two Eastern Wood-Pewees is on the low side, possibly a result of the late date of the Count. Great Crested Flycatchers nest in Sabine Woods and presumably elsewhere in the county and appear to be increasing. Couch's Kingbird is a new species for the count. One Western Kingbird – a species that we have detected in about 40 percent of recent counts – was seen in the Sabine Pass area. Eastern Kingbirds and Scissor tailed Flycatchers are more closely related than appearances would suggest, and basically occupy the same habitat. The Scissor-tailed occupies a smaller range to the west of that of the Kingbird, but it seems that locally some years have lots of one and few of the other. The year 2023 count was one with a good number of Scissor-tailed and a low number of Eastern Kingbirds.

In Jefferson County, in the areas away from the shore, the number of Loggerhead Shrikes seen in the Migration Count decreased drastically in the period 2010-2020. This decline appears to have been arrested and may even have been reversed. It is very difficult to analyze the available data, and anecdotally, it appears that Chambers County, and possibly Cameron Parish in Louisiana have not suffered declines, at least not to the same extent. There appears to be something unusual about the accessible roads of West Jefferson County. Any count of shrikes almost inevitably uses surveys along public roads, and the shrikes typically use utility wires and trees as vantage points when hunting for food. The food available in the areas that can be surveyed from the roadside wires and trees might have been reduced. Changing agricultural practices, and increasing urbanization may be reducing prey for the shrikes in ways we cannot easily evaluate.

White-eyed and Red-eyed Vireos, species most often located based on calls, were found in near normal numbers, with Red-eyed at the lower end of normal. Blue-headed Vireos in Southeast Texas are mostly winter residents, leave the area fairly early in spring, and have not been seen on previous Migration counts. However, presumably migratory birds of this species are seen in small numbers in late spring after a gap. It is assumed that this is a separate population, most likely breeding further north than the typical wintering birds. The absence of Philadelphia Vireos on Count Day was surprising, as the species seems to have been more numerous than normal this year based on other surveys.

Anyone frequenting the larger grocery stores in the area were will not be surprised that the number of Fish Crows was a new high. American Crows were normal. Blue Jays were hit hard by West Nile virus a decade or so ago, and there has been renewed concern over perceived population declines in the last two years. This was, however, not reflected in our count results, which have been in an unusually narrow range for a number of years.

Counting swallows on the count is never easy. Tree Swallows were somewhat low, Cave Swallows were in good numbers in the western part of the county. Purple Martin numbers have rebounded from a significant decline in 2015.

There were fewer Marsh Wrens, but Carolina Wrens have increased above the numbers after the freezes at the beginning

of the last decade. Eastern Bluebirds seen to have recovered from very low numbers in 2016-2018. Thrushes were of some concern; Swainson's Thrushes were down, Wood Thrushes were absent for the fourth year in a row. American Robins were also down, but we are at the southern edge of their normal range, and as such are susceptible to larger swings in populations. The combined effects of recent tropical storms and freezes had a substantial effect on Northern Mockingbirds, mostly it seems in the open areas away from human activity, but the numbers seem to be slowing returning to past levels.

Only the one resident species of sparrow, Seaside Sparrow, can be expected to be present in number when the count date is late in the period, and the number was reasonably normal. Lingering Savannah Sparrows were, as could be expected, in low numbers.

Eastern Meadowlark numbers were as high as they have been in more than ten years. This species is very hard to find during the period of the Fall Migration Count, so we rely on the spring count to monitor the species. Counting, or more accurately estimating, the numbers of the various blackbird and grackle species is difficult, and we have not been able to draw any conclusions beyond the concerns expressed earlier about a lack of any large flocks.

As suggested at the beginning of this account, it is really not possible to analyze the several important variables that affect the trans-Gulf migrants, many of which are warblers, but also including orioles, tanagers and other larger birds. Suffice it to say, almost no migrants in Sabine Woods were present on Count Day this year.

Finally, Dickcissels were low – does this reflect partly the consequences of a change from rice to crawfish? House Sparrows continued to be low. This species is highly dependent on human activities, both agricultural and other. One might speculate that both farmers and homeowners are operating in ways that reduce the amount of food suitable for sparrows that is readily accessible to them. The decline is much more pronounced in England, and there is so far no real explanation there.

WHISTLING-DUCK, Black-bellied (174); WHISTLING-DUCK, Fulvous (47); TEAL, Blue-winged (53); DUCK, Mottled (41); DUCK, species (2); GREBE, Pied-billed (5); PIGEON, Rock (141); DOVE, Eurasian Collared- (13); DOVE, Inca (4); DOVE, White-winged (55); DOVE, Mourning (204); CUCKOO, Yellow-billed (13); NIGHTHAWK, Common (20); SWIFT, Chimney (23); HUMMINGBIRD, Ruby-throated (14); HUMMINGBIRD, Archilochus species (1); RAIL, King (3); RAIL, Clapper (8); SORA (4); GALLINULE, Common (91); COOT, American (7); GALLINULE, Purple (86); STILT, Black-necked (149); AVOCET, American (39); PLOVER, Black-bellied (70); PLOVER, Wilson's (1); PLOVER, Semipalmated (10); PLOVER, Piping (2); KILLDEER (77); SANDPIPER, Upland (1); WHIMBREL (47); GODWIT, Hudsonian (3); TURNSTONE, Ruddy (133); SANDPIPER, Stilt (1); SANDERLING (102); DUNLIN (43); SANDPIPER, Baird's (1); SANDPIPER, Least (26); SANDPIPER, White-rumped (63); SANDPIPER, Pectoral (1); SANDPIPER, Semipalmated (39); SANDPIPER, Peep (40); DOWITCHER, Short-billed (26); DOWITCHER, Long-billed (19); DOWITCHER species (40); SNIPE, Wilson's (1); PHALAROPE, Wilson's (14); SANDPIPER, Spotted (8); YELLOWLEGS, Greater (13);

WILLET (48); YELLOWLEGS, Lesser (6); YELLOWLEGS species (1); GULL, Laughing (113); GULL, Ring-billed (1); GULL, Herring (7); GULL species (10); TERN, Least (57); TERN, Caspian (4); TERN, Black (46); TERN, Forster's (38); TERN, Royal (41); TERN, Sandwich (6); FRIGATEBIRD, Magnificent (1); ANHINGA (6); CORMORANT, Neotropic (158); CORMORANT species (3); PELICAN, American White (7); PELICAN, Brown (203); BITTERN, Least (8); HERON, Great Blue (8); EGRET, Great (276); EGRET, Snowy (225); HERON, Little Blue (70); HERON, Tricolored (40); EGRET, Reddish (2); EGRET, Cattle (705); HERON, Green (44); NIGHT-HERON, Black-crowned (10); NIGHT-HERON, Yellow-crowned (35); IBIS, White (394); IBIS, Glossy (1); IBIS, White-faced (45); IBIS, Plegadis species (64); SPOONBILL, Roseate (109); VULTURE, Black (194); VULTURE, Turkey (115); VULTURE species (80); OSPREY (5); KITE, White-tailed (4); KITE, Swallow-tailed (1); KITE, Mississippi (12); HARRIER, Northern (1); HAWK, Cooper's (1); HAWK, White-tailed (6); HAWK, Red-shouldered (17); HAWK, Broad-winged (1); HAWK, Swainson's (6); HAWK, Red-tailed (2); OWL, Barn (2); OWL, Great Horned (1); KINGFISHER, Belted (3); WOODPECKER, Red-headed (4); WOODPECKER, Red-bellied (28); WOODPECKER, Downy (26); WOODPECKER, Pileated (2); CARACARA, Crested (16); WOODPEWEE, Eastern (2); FLYCATCHER, Great Crested (23); KINGBIRD, Couch's (1); KINGBIRD, Western (1); KINGBIRD, Eastern (22); FLYCATCHER, Scissor-tailed (37); SHRIKE, Loggerhead (51); VIREO, White-eyed (26); VIREO, Yellow-throated (4); VIREO, Blue-headed (2); VIREO, Red-eyed (11); JAY, Blue (99); CROW, American (30); CROW, Fish (47); CROW, Species (20); SWALLOW, N. Rough-winged (4); MARTIN, Purple (189); SWALLOW, Tree (44); SWALLOW, Bank (30); SWALLOW, Barn (90); SWALLOW, Cliff (352); SWALLOW, Cave (56); SWALLOW species (3); CHICKADEE, Carolina (58); TITMOUSE, Tufted (13); WREN, Marsh (12); WREN, Carolina (57); GNATCATCHER, Blue-gray (4); BLUEBIRD, Eastern (63); VEERY (1); THRUSH, Gray-cheeked (1); THRUSH, Swainson's (2); ROBIN, American (11); CATBIRD, Gray (5); THRASHER, Brown (14); MOCKINGBIRD, Northern (284); STARLING, European (254); WAXWING, Cedar (16); FINCH, House (16); SPARROW, Lark (1); SPARROW, Seaside (13); SPARROW, Savannah (8); CHAT, Yellow-breasted (1); MEADOWLARK, Eastern (138); MEADOWLARK species (2); ORIOLE, Orchard (41); ORIOLE, Baltimore (1); BLACKBIRD, Red-winged (366); COWBIRD, Bronzed (1); COWBIRD, Brown-headed (138); GRACKLE, Common (60); GRACKLE, Boat-tailed (125); GRACKLE, Great-tailed (166); GRACKLE, Gt./Boat-tailed (40); GRACKLE species (17); WATERTHRUSH, Northern (1); WARBLER, Prothonotary (5); YELLOWTHROAT, Common (42); WARBLER, Hooded (3); REDSTART, American (1); PARULA, Northern (2); WARBLER, Yellow (3); WARBLER, Pine (3); WARBLER, Yellow-rumped (1); WARBLER, Yellow-throated (1); TANAGER, Summer (4); CARDINAL, Northern (112); GROSBEAK, Blue (1); BUNTING, Indigo (4); BUNTING, Painted (2); DICKCISSEL (102); SPARROW, House (93); TOTAL INDIVIDUALS (7191); TOTAL SPECIES (168).

Number of Observers (15); Number of Parties (10); Number of Party-Hours - Foot (21.3); - Car (42.8), Total Party-hours (65.0); Number of Party-Miles - Foot (13.9); - Car (308.2); Total Party-Miles (322.1).

Participants: Howard and Linda Davis, Ashley Fuselier, Sherry Gibson, John Haynes, Thomas Hellweg, Gary and Denise Kelley, Steve Mayes, Sherrie Roden, Christine Sliva, Harlan Stewart, Elizabeth Timmer, John and Jana Whittle.

As a supplement to this issue, following page 8, we present a complete spreadsheet of the results, breaking down the numbers by area. Following that spreadsheet is one with totals by species results from each of the last 12 years, and averages over that period.

*John A. Whittle*

# Bird Sightings – May 2023

For this column, we review, looking for rare and very rare species, all credible eBird and other records reported to us from nearby Texas counties – Angelina, Hardin, Jasper, Jefferson, Newton, Orange, Sabine, San Augustine and Tyler. We also review records for Chambers, Galveston, Harris and Liberty Counties in Texas, and Calcasieu and Cameron Parishes in Louisiana. In most cases, we do not include birds that are "heard only" or probably hybrids.

The format of the listing is Species – Date – County-and brief location information if available – (number) – Observer(s). If more precise location information is needed, it can often be obtained by using the bird species map feature to find the sighting in eBird, opening the checklist, and using the map function to display the location as precisely as the observer provided.

**Commentary:** We need to explain that in our April sightings report, we did not include any reports of Cape May or Black-throated Blue Warblers. Both of these species are rare enough in our area even in the Spring Migration time frame that they meet our criteria for inclusion here. However, we felt that the "raw" reports included too many by apparently very inexperienced observers that were not supported by any details. There certainly were birds of these species in the migration hotspots, and we understand that often in these hotspots, large numbers of observers see such birds and many feel there is no need to provide any details. However, a report by one person or one party of an unusual species on a day when numerous other checklists not reporting that species were submitted does call for details! The unreviewed eBird reports that are available immediately are the only practical source of sightings for this column if it is to remain usefully newsworthy. While, in most months we can and do exclude those relatively few that are almost certainly in error, there are too many reported sightings in April to evaluate in time to meet our publication deadline. In our analyses of the season at Sabine Woods that we

anticipate compiling later in the year after the eBird downloads of accepted sightings become available, we will attempt to present a compilation that includes only sightings reports that have undergone at least a first level of review.

It has been our conclusion over the last year or more that the main reason that many more bird sightings are qualifying each month for inclusion in these columns is that more sightings are occurring within the periods one week before and one week after the checklist we use considers them to be rare. The original focus of this section was intended to be species that were "always rare" in Southeast Texas. In this month's sightings, a large number of the species entered pertain to species that are reasonably common in the area at other times of the year. Commencing with next month's report, we will not include normally include species that are "rare" for the date but are within one week before or after the period in which they are merely uncommon. The checklist is based on bird sightings. Birds that may be actually be "reasonably uncommon" but very rarely seen will still be included. This month that would apply to the pelagic species seen well offshore in the Gulf. We have always made adjustments as the ranges of species expand or contract. In a few cases where a species is highly localized within Southeast Texas, we will include sightings of the species outside these localities. We will, however, not be too quick to consider a species as no longer worthy of inclusion. We also intend to publish only sightings that are validated by adequate details or an identifiable photograph. To that end, details must normally address key plumate (or occasionally voice) details that separate the species from other species that are more common in the area on the date of the sightings. Detailed location information is valuable and highly encouraged but does not substitute for plumage details!

## Local Counties (listed above)

|                           |           |   |
|---------------------------|-----------|---|
| Gadwall                   | May 23    | JEF-TP (1) John Beaver  |
| Ring-necked Duck          | May 7     | TYL-Lake Hyatt(1) Megan Ahlgren, Eric Hilgendorf                  |
| Common Ground Dove        | May 15-22 | JAS-CR51 (1) Phillip Hight  |
| Sora                      | May 29    | JEF-JEF-TP (2) Jonathan Breaux                                    |
| Wilson's Snipe            | May 13    | JEF-West Jefferson Co (1) Christine Sliva, Sherry Gibson          |
|                           | May 14    | JEF-Backridge Rd (1) Joseph Kennedy                               |
| Red-cockaded Woodpecker   | May 28    | HAI-Kountze (1) Sharon Peterson (unconf)                          |
| Gray Kingbird             | May 16-17 | JEF-TX87 near Clam Lake Rd (1) James Rieman, J Berner, mult obs   |
| Tropical/Couch's Kingbird | May 16    | JEF-Sabine Pass Battleground (1) Letha Slaigle                    |
| Philadelphia Vireo        | May 20    | HAI-Beech Creek at Gore Store Rd (1) GTAS Field Trip              |
| Golden-crowned Kinglet    | May 7     | JAS-Boykin Springs (1) Sue Riffe, Viviana Wolinsky, Steven Hunter |
| Savannah Sparrow          | May 17    | JEF-entrance to McFaddin NWR (1) Dean Gregory                     |
|                           | May 29    | JEF-TP (1) Jonathan Breaux  |
| Cape May Warbler          | May 8     | JEF-SW (1) JHH  |
| Magnolia Warbler          | May 26    | ANG-Lufkin Ellen Trout Park (1) Gary Hunter                       |
|                           | May 29    | ANG-Lufkin (1) Gary Hunter  |
| Black-thr. Blue Warbler   | May 8     | JEF-SW (1) JHH  |
|                           | May 9     | JEF-SW (1) Fred Collins   |
|                           | May 10    | JEF-SW (1) JHH  |
| Canada Warbler            | May 25    | ANG-Lufkin (1) Gary Hunter  |
| Wilson's Warbler          | May 19-20 | SAB-Hemphill (1) David Bell                                       |

## Nearby Counties

|                   |        |                                     |
|-------------------|--------|-------------------------------------|
| Black Scoter      | May 12 | GAL-Bolivar Flats (1) Parker Allie  |
| Groove-billed Ani | May 20 | CAM-Peveto Woods (1) James Smithers |

|                        |           |   |
|------------------------|-----------|---|
| Mangrove Cuckoo        | May 12-22 | GAL-Boddecker Rd (1) Parker Allie, mult obs                           |
| Rufous Hummingbird     | May 15    | HAS-S of Dickinson(1) Clayton Leopold                                 |
| Sora                   | May 17,   | CAM-Cameron Prairie NWR (1) Jonathon Lueck                            |
|                        | May 21    | GAL-FM2004 nr FM646 (1) Kyle O'Haver, Robert Becker                   |
| Virginia Rail          | May 18    | GAL-Galveston Is SP (1) Gautam Apte                                   |
| Yellow Rail            | May 11    | CHA-ANWR (1) Kelly McDowell   |
| Limpkin                | May 28    | ANWR-Willows (1) Elena Glassberg, Mary Halligan, Kristine Rivers, JAW |
| Snowy Plover           | May 16    | HAS-EI Jardin Park/Beach (2) Andrew Hamlett, Richard Rulander         |
| Solitary Sandpiper     | May 17-18 | CAL-Sam Houston Jones SP (1) Deanna Griggs                            |
| Pomarine Jaeger        | May 9     | GAL-High Is Beach (1) WE  |
|                        | May 26    | GAL-Galveston IS SP )10 Kyle O'Haver                                  |
| Black-legged Kittiwake | May 5     | GAL-Galveston Fishing Pier (1) Brenda Gonzales                        |
| Bonaparte's Gull       | May 12    | GAL-Bolivar Flats 17th St (1) Parker Allie                            |
| Franklin's Gull        | May 19-22 | CAM-Holly Beach (1) John Nelson, David Muth, mult obs                 |
|                        | May 19    | CAM-Mae's Beach (1) John Nelson, David Muth                           |
|                        | May 18    | CAM-Rutherford Beach (1) John Nelson, David Muth                      |
| Bridled Tern           | May 22    | GAL-offshore 28.144N, -94.528W (4) mult obs                           |
|                        | May 22    | GAL-offshore 29.219N -94.427W mult obs                                |
| Common Loon            | May 11    | HAS-Cy Fair Park (1) Drew Dickert                                     |
| Red-footed Booby       | May 20    | GAL-offshore 29.29N -94.67W (1) Shane Cantrell                        |
| American Bittern       | May 30    | HAS-Houston Westbury (1) Kerry Keck                                   |

|                          |           |  |
|--------------------------|-----------|--|
| Belted Kingfisher        | May 24    | CAL-Sam Houston Jones SP (1) Blayne Soileau                          |
| Northern Harrier         | May 4     | CHA-Smith Point-Robbins Park (1) Carolyn Broussard                   |
| Yellow-bellied Sapsucker | May 11    | GAL-HI Smith Oaks (1) Ad Konings                                     |
| Merlin                   | May 18    | GAL-HI Smith Oaks (1) WE   |
|                          | May 19    | GAL-Bobs Rd (1) John Cocanower                                       |
| Peregrine Falcon         | May 24    | GAL-Galveston Bay (1) mult obs                                       |
| Olive-sided Flycatcher   | May 22    | CAM-Peveto Woods (1) Van Remsen                                      |
| Least Flycatcher         | May 31    | GAL-Galveston IS SP (1) Robert Becker                                |
|                          | May 22    | CAL-Lake Charles (1) James Smithers                                  |
| Vermilion Flycatcher     | May 22    | GAL-Gulf Oil Rig 29.144N - 94.529W mult obs                          |
|                          | May 11    | CHA-ANWR-Willows (1) Janet Cook                                      |
| Ash-throated Flycatcher  | May 20    | GAL-HI Smith Oaks (1) WE   |
| Great Kiskadee           | May 8-9   | GAL-Galveston Bay Foundation (1) Clayton Leopold, Lisa Hardcastle    |
| Couch's Kingbird         | May 9-27  | HAS-Pine Forest CC (2) Timothy White                                 |
|                          | May 13    | CAL-Ellis Moss Rd (1) Katie Barned, James Smithers,                  |
|                          | May 16    | HAS-HAS-Barker Cypress at Clay (3) Timothy White                     |
|                          | May 27    | HAS-Katy Dog Park (1) Ni Ku  |
|                          | May 28    | HAS-Peckam Park (1) Andrew Hamlett                                   |
| Blue-headed Vireo        | May 11    | CAM-Peveto Woods (1) Davis Bradford                                  |
| Philadelphia Vireo       | May 22    | GAL-HI Smith Oaks (1) J Berner                                       |
|                          | May 18    | CAM-Oak Grove Sanct (1) David Muth, John Nelson                      |
|                          | May 18    | CAM-Willow Is (1) John Nelson, David Muth                            |
|                          | May 21    | HAS-Cypress Creek/Bridgeland (3) John Hale                           |
| Warbling Vireo           | May 22    | CHA-ANWR (1) Charles Amos  |
|                          | May 19    | CAM-Peveto Woods (1) John Nelson, David Muth                         |
| Tree Swallow             | May 24,31 | GAL-Texas City Prairie Preserve (up to 11) Debbie Repasz             |
| Red-breasted Nuthatch    | May 9     | HAS-Mitchell Nature Preserve (1) Caleb Ryan                          |
| House Wren               | May 22    | HAS-Archbishop Fiorenza Park (1) Mary Anne Morris                    |
| Ruby-crowned Kinglet     | May 10    | GAL-HI Hooks Woods (1) WE  |
| Veery                    | May 22    | GAL-Lafitte's Cove (5) Rich Boether                                  |
| Gray-cheeked Thrush      | May 22    | CHA-ANWR Willows (1) John Mariani, Isaac & Michael Rizzo             |
|                          | May 25    | JEF-SW (7) Howard Davis  |
| Brown Thrasher           | May 17    | HAS-Cy-Fair Park (1) Drew Dickert                                    |
| Cedar Waxwing            | May 19    | HAS-EI Jardin Park (1) Andrew Hamlett, Steve Rogow, Richard Rulander |
|                          | May 30    | GAL-Galveston Is SP (1) Robert Becker                                |
| Clay-colored Sparrow     | May 6     | CAM-Willow Island (1) James Smithers, Paul Conover                   |
| Dark-eyed Junco          | May 24    | HAS-Friendswood (1) Judy Behrens                                     |
| White-crowned Sparrow    | May 19-21 | CAM-Peveto Woods (1) David Muth, John Nelson, Esme Rosen             |
| Nelson's Sparrow         | May 19    | GAL-Bobs Rd (1) John Cocanower                                       |
| Savannah Sparrow         | May 24    | GAL-Texas City Prairie Preserve (1) Debbie Repasz                    |
| Baltimore Oriole         | May 21    | CHA-ANWR (1) Todd McGrath  |

|                          |           |   |
|--------------------------|-----------|---|
| Yellow-headed Blackbird  | May 22    | GAL-Friendswood (1) Dawn Hailey                             |
| Ovenbird                 | May 6     | CAM-Holly Beach (5) Paul Conover                            |
|                          | May 10    | HAS-Baytown NC (1) Tracey Prothro                           |
| Worm-eating Warbler      | May 20    | GAL-Ft Travis (1) John and Tracy Cocanower                  |
|                          | May 21    | GAL- FM3005 2 mi E of San Luis Pass (1) Greg Whitaker       |
| Northern Waterthrush     | May 24    | HAS-Russ Pitman Park (1) Mary Ann Beauchemin                |
|                          | May 30    | GAL-Lafitte's Cove (1) Russlyn M                            |
| Black-thr. Green Warbler | May 20-21 | CAM-Peveto Woods (1) James Smithers, Esme Rosen             |
|                          | May 22    | GAL-Boddeker Rd (1) Charles Amos                            |
| Golden-winged Warbler    | May 22    | GAL-Oil Rig at 29.144N - 94.528W mult obs                   |
|                          | May 21    | CAM-Peveto Woods (1) Esme Rosen                             |
| Black-and-white Warbler  | May 24    | GAL-Lafitte's Cove (1) Dean Silvers                         |
|                          | May 22    | CAM-Peveto Woods (1) Van Remsen                             |
| Nashville Warbler        | May 20-22 | CAM-Peveto Woods (2) James Smithers, Esme Rosen, Van Remsen |
|                          | May 21    | GAL-HI Boy Scout Woods (1) WE                               |
| Wilson's Warbler         | May 22    | HAS-Rice Univ/Texas Med Ctr (1) Tim Perkins                 |
|                          | May 21    | GAL-HI Boy Scout Woods (1) WE                               |
| Canada Warbler           | May 21    | HAS-Cypress Creek/Bridgeland (1) John Hale                  |
|                          | May 22    | CAM-Peveto Woods (1) Van Remsen                             |
| Western Tanager          | May 5-8   | HAS-Deer Park (1) Andrew Hamlett, Dale Wolck mult obs       |
|                          | May 13    | CAM-Hollister Chemier Preserve (1) Esme Rosen               |

**Abbreviations used:** ANG – Angelina County; ANWR – Anahuac NWR; CAL – Calcasieu Parish; CAM – Cameron Parish; CHA – Chambers County; GAL – Galveston County; HAI – Hardin County; HAS – Harris County; HI – High Island; HS – Harlan Stewart; JAS – Jasper County; JAW – John Whittle; JEF – Jefferson County; JHH – John Haynes; JJW – Jana and John Whittle; LIB – Liberty County; MC – Michael Cooper; NEW – Newton County; ORA – Orange County; PI – Pleasure Is, Port Arthur; SAA – San Augustine Co.; SAB – Sabine County; SM – Steve Mayes, SRSP – Sea Rim State Park; SW – Sabine Woods; TP – Tyrrell Park including Cattail Marsh; TYL – Tyler County; WE – Wyatt Egelhoff; WJC – West Jefferson County.

## Membership Dues

To simplify our record keeping, all memberships now run from January through December. Membership dues remain at \$20 per year. You may pay at any membership meeting (checks preferred) or use the subscription/membership blank on the back page.

Dues for all members will be for the period ending on December 31. The memberships of new members joining in August or later in the year will extend to the end of the following calendar year. For new members joining National Audubon on line or using the form on the back page and selecting our Chapter code (W25), we receive a rebate of the entire first year's national dues, and no Chapter dues are expected for that first year.



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### RARE BIRD ALERTS

Unfortunately, almost all the local and regional telephone Rare Bird Alerts have been discontinued in favor of various forms of Internet distribution.

The Texas-wide Rare Bird Alert, maintained by Houston Audubon Society, is available on their web-site at <http://www.houstonaudubon.org/> Email alerts are also available for a fee.

Many rare bird sightings in Texas are posted on Facebook Texbirds or on the TEXBIRDS listserv. Archives of the listserv are at [www.freelists.org/archive/texbirds](http://www.freelists.org/archive/texbirds). It is not necessary to subscribe to view the archives, which include all recent postings.

Detailed information/maps on birding sites in Texas is available on the Web at <http://www.texasbirds.org/birdingLocations.php>. This leads you to the maps of the various eBird hotspots. You can also subscribe (free) on eBird for email alerts for all rare birds reported in a specific county.

## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES                          |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       | 2023 |       |
|----------------------------------|--------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|------|-------|
|                                  | SECTOR | 1     | 2       | 3       | 4       | 5     | 6    | 7       | 8A     | 8B     | 8C    | 9     | 9A    | 10    | 11    | 12   | Total |
| Recorder                         | Sliva  | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes |      |       |
| WHISTLING-DUCK, Black-bellied    | 39     | 18    | 7       |         | 9       | 45    |      | 17      | 9      | 10     |       | 3     | 5     | 2     | 10    |      | 174   |
| WHISTLING-DUCK, Fulvous          |        |       |         |         | 37      |       |      |         |        |        |       | 10    |       |       |       |      | 47    |
| <b>TEAL, Ringed</b>              |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DUCK, Wood                       |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| TEAL, Blue-winged                | 5      | 4     |         | 2       | 29      |       |      |         |        |        |       |       | 3     | 6     | 4     |      | 53    |
| TEAL, Cinnamon                   |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| TEAL, Cinnamon/Teal hybrid       |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| SHOVELER, Northern               |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| GADWALL                          |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| WIGEON, American                 |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| MALLARD                          |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DUCK, Mottled                    | 14     | 2     |         | 9       |         |       |      |         |        |        |       |       | 8     | 4     | 4     |      | 41    |
| TEAL, Green-winged               |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DUCK, Ring-necked                |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| <b>SCAUP, Greater</b>            |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| SCAUP, Lesser                    |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| MERGANSEER, Red-breasted         |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| MERGANSEER, species              |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DUCK, Ruddy                      |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DUCK, species                    |        |       |         |         |         |       | 2    |         |        |        |       |       |       |       |       |      | 2     |
| BOBWHITE, Northern               |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| GREBE, Least                     |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| GREBE, Pied-billed               |        |       |         |         | 1       |       |      |         |        |        |       |       |       |       | 2     | 2    | 5     |
| GREBE, Eared                     |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| PIGEON, Rock                     |        | 2     | 51      |         |         | 69    |      |         | 5      | 11     | 3     |       |       |       |       |      | 141   |
| DOVE, Eurasian Collared-         | 6      |       | 3       | 1       |         | 1     |      | 1       |        |        | 1     |       |       |       |       |      | 13    |
| DOVE, Inca                       | 2      | 2     |         |         |         |       |      |         |        |        |       |       |       |       |       |      | 4     |
| GROUND-DOVE, Common              |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| DOVE, White-winged               | 5      | 3     | 2       |         | 1       | 18    |      |         |        | 1      | 9     |       | 16    |       |       |      | 55    |
| DOVE, Mourning                   | 59     | 31    | 8       | 17      | 8       | 18    | 21   | 9       | 3      | 2      | 7     |       | 9     | 2     | 10    |      | 204   |
| CUCKOO, Yellow-billed            | 2      | 3     |         |         |         |       | 2    | 1       |        |        |       | 1     |       | 2     |       | 2    | 13    |
| CUCKOO, Black-billed             |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| NIGHTHAWK, Common                | 6      | 1     |         | 1       |         | 2     |      |         |        |        |       |       | 1     | 1     | 3     | 5    | 20    |
| WILL'S-WIDOW, Chuck-             |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| SWIFT, Chimney                   | 3      | 5     | 2       | 1       | 1       | 8     |      | 1       |        | 1      |       |       | 1     |       |       |      | 23    |
| HUMMINGBIRD, Ruby-throated       | 8      | 2     |         |         |         | 3     |      |         |        |        |       |       | 1     |       |       |      | 14    |
| <b>HUMMINGBIRD, Buff-bellied</b> |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| HUMMINGBIRD, Species             |        |       |         |         |         |       |      |         |        |        |       |       |       |       |       |      |       |
| HUMMINGBIRD, Archilochus species |        |       |         |         | 1       |       |      |         |        |        |       |       |       |       |       |      | 1     |

## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES                  | SECTOR | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|--------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
|                          |        | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| RAIL, King               |        |       |       |         |         | 1       |       |      |         | 1      |        |       |       |       |       | 1     | 3     |
| RAIL, Clapper            |        |       |       |         |         |         |       |      |         |        |        | 6     |       |       |       | 2     | 8     |
| RAIL, King/Clapper       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| RAIL, Virginia           |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SORA                     |        |       |       |         |         |         |       |      |         |        |        | 1     |       |       | 1     | 2     | 4     |
| GALLINULE, Common        |        |       |       |         |         | 58      |       |      |         | 3      | 1      | 1     | 4     | 5     | 5     | 14    | 91    |
| COOT, American           |        |       |       |         |         | 7       |       |      |         |        |        |       |       |       |       |       | 7     |
| GALLINULE, Purple        |        |       |       |         |         | 81      |       |      |         |        |        |       |       | 1     | 1     | 3     | 86    |
| <b>RAIL. Black</b>       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| CRANE, Whooping          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| STILT, Black-necked      |        | 26    | 14    |         | 18      | 21      |       | 13   |         | 8      | 2      | 9     | 2     | 9     | 16    | 11    | 149   |
| AVOCET, American         |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 28    | 11    | 39    |
| OYSTERCATCHER, American  |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| PLOVER, Black-bellied    |        | 63    |       |         |         |         |       |      |         |        |        | 1     |       |       | 2     | 4     | 70    |
| PLOVER, American Golden  |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| PLOVER, Snowy            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| PLOVER, Wilson's         |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 1     |       | 1     |
| PLOVER, Semipalmated     |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 8     | 2     | 10    |
| PLOVER, Piping           |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 1     | 1     | 2     |
| KILLDEER                 |        | 5     | 7     | 4       | 7       | 1       | 8     | 4    | 1       | 3      | 1      | 10    |       | 13    | 5     | 8     | 77    |
| PLOVER, species          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SANDPIPER, Upland        |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| WHIMBREL                 |        | 39    |       |         | 6       |         |       |      |         |        |        | 2     |       |       |       |       | 47    |
| CURLEW, Long-billed      |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| GODWIT, Hudsonian        |        | 2     |       |         | 1       |         |       |      |         |        |        |       |       |       |       |       | 3     |
| GODWIT, Marbled          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| TURNSTONE, Ruddy         |        | 88    |       |         |         |         | 10    |      |         |        |        | 1     | 9     |       | 11    | 14    | 133   |
| KNOT, Red                |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| RUFF                     |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SANDPIPER, Stilt         |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 1     |       | 1     |
| SANDERLING               |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 27    | 75    | 102   |
| DUNLIN                   |        | 8     |       |         |         |         |       |      |         |        |        | 18    |       |       | 11    | 6     | 43    |
| SANDPIPER, Baird's       |        |       |       |         | 1       |         |       |      |         |        |        |       |       |       |       |       | 1     |
| SANDPIPER, Least         |        |       |       |         | 9       |         |       |      |         |        |        |       |       |       | 9     | 8     | 26    |
| SANDPIPER, White-rumped  |        | 55    |       |         |         |         |       |      |         |        |        | 5     |       | 2     | 1     |       | 63    |
| SANDPIPER, Buff-breasted |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SANDPIPER, Pectoral      |        |       |       |         | 1       |         |       |      |         |        |        |       |       |       |       |       | 1     |
| SANDPIPER, Semipalmated  |        |       |       |         |         |         |       |      |         |        |        | 3     |       | 1     | 35    |       | 39    |
| SANDPIPER, Western       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |

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| SPECIES                   |        | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|---------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| Recorder                  | SECTOR | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| SANDPIPER, "Peep"         |        | 40    |       |         |         |         |       |      |         |        |        |       |       |       |       |       | 40    |
| DOWITCHER, Short-billed   |        |       |       |         |         |         |       |      |         |        |        | 9     |       |       | 17    |       | 26    |
| DOWITCHER, Long-billed    |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 19    |       | 19    |
| DOWITCHER species         |        | 30    |       |         |         |         |       |      |         |        |        |       |       |       | 10    |       | 40    |
| SNIFE, Wilson's           |        |       | 1     |         |         |         |       |      |         |        |        |       |       |       |       |       | 1     |
| PHALAROPE, Wilson's       |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 14    |       | 14    |
| SANDPIPER, Spotted        |        | 1     |       |         |         |         | 3     | 1    |         |        |        | 1     |       |       | 2     |       | 8     |
| SANDPIPER, Solitary       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| YELLOWLEGS, Greater       |        | 7     | 2     |         |         |         |       |      |         |        |        |       |       | 1     | 1     | 2     | 13    |
| WILLET                    |        | 19    |       |         |         |         | 2     |      |         |        |        | 7     | 2     | 4     | 8     | 6     | 48    |
| YELLOWLEGS, Lesser        |        |       |       |         |         |         |       |      |         |        |        |       |       | 3     | 2     | 1     | 6     |
| YELLOWLEGS species        |        |       |       |         |         |         |       |      |         |        |        | 1     |       |       |       |       | 1     |
| GULL, Laughing            |        |       |       |         |         | 13      | 51    | 25   |         |        |        | 5     | 4     | 2     | 2     | 11    | 113   |
| GULL, Franklin's          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| GULL, Ring-billed         |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 1     |       | 1     |
| GULL, Herring             |        |       |       |         |         |         |       |      |         |        |        |       | 2     |       | 3     | 2     | 7     |
| <b>GULL, Glaucous</b>     |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| GULL species              |        | 7     |       |         |         |         |       |      |         | 3      |        |       |       |       |       |       | 10    |
| TERN, Least               |        |       |       |         |         | 2       | 10    |      |         |        |        | 12    | 17    |       | 15    | 1     | 57    |
| TERN, Gull-billed         |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| TERN, Caspian             |        |       |       |         |         |         |       |      |         |        |        |       |       | 2     | 2     |       | 4     |
| TERN, Black               |        |       |       |         | 1       | 9       | 1     |      |         |        |        |       | 2     | 2     | 17    | 14    | 46    |
| TERN, Common              |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| TERN, Forster's           |        |       |       |         |         |         |       |      |         |        | 1      | 1     |       |       | 8     | 28    | 38    |
| TERN, Royal               |        |       |       |         |         |         | 4     |      |         |        |        |       |       |       | 35    | 2     | 41    |
| TERN, Sandwich            |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 6     |       | 6     |
| SKIMMER, Black            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| <b>LOON, Common</b>       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| <b>STORK, Wood</b>        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FRIGATEBIRD, Magnificent  |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       | 1     | 1     |
| <b>BOOBY, Brown</b>       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| ANHINGA                   |        |       | 1     |         |         |         | 1     |      |         | 1      | 1      |       |       | 2     |       |       | 6     |
| CORMORANT, Neotropic      |        | 3     | 4     |         |         | 14      | 62    |      |         |        | 4      | 14    |       | 6     | 22    | 29    | 158   |
| CORMORANT, Double-crested |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| CORMORANT species         |        |       |       |         |         |         |       |      |         | 1      | 2      |       |       |       |       |       | 3     |
| PELICAN, American White   |        |       |       |         |         |         | 3     |      |         |        |        |       | 4     |       |       |       | 7     |
| PELICAN, Brown            |        |       |       |         |         |         | 15    |      |         | 1      |        | 4     | 14    |       | 62    | 107   | 203   |
| BITTERN, American         |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| BITTERN, Least            |        |       |       |         |         | 2       |       |      |         |        |        | 4     |       |       |       | 2     | 8     |

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| SPECIES                        | SECTOR | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|--------------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
|                                |        | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| HERON, Great Blue              |        | 1     |       | 1       |         | 3       |       |      | 1       |        |        |       |       |       | 1     | 1     | 8     |
| EGRET, Great                   |        | 30    | 33    | 26      | 15      | 21      | 75    | 11   | 1       | 18     | 2      | 21    | 2     | 10    | 3     | 8     | 276   |
| EGRET, Snowy                   |        | 21    | 13    | 4       |         | 109     | 30    | 2    |         | 5      | 2      | 8     | 3     | 5     | 9     | 14    | 225   |
| HERON, Little Blue             |        | 9     | 8     | 2       | 11      | 17      | 5     | 6    | 5       | 3      |        |       |       | 1     | 2     | 1     | 70    |
| HERON, Tricolored              |        |       | 3     |         |         | 15      | 5     |      |         |        | 1      |       |       | 6     | 6     | 4     | 40    |
| EGRET, Reddish                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 2     |       | 2     |
| EGRET, Cattle                  |        | 97    | 127   | 42      | 28      | 115     | 23    | 184  | 47      | 19     | 15     | 2     |       | 6     |       |       | 705   |
| HERON, Green                   |        | 7     | 2     |         | 1       | 15      | 4     | 4    |         | 2      |        | 2     |       | 4     | 1     | 2     | 44    |
| NIGHT-HERON, Black-crowned     |        | 2     |       |         |         | 2       | 5     |      |         |        |        |       |       | 1     |       |       | 10    |
| NIGHT-HERON, Yellow-crowned    |        |       | 3     | 2       |         | 2       | 12    | 5    | 2       | 2      | 3      |       | 3     | 1     |       |       | 35    |
| NIGHT-HERON species            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| IBIS, White                    |        | 21    | 99    |         |         | 41      | 2     | 36   |         | 185    |        |       |       |       | 8     | 2     | 394   |
| IBIS, Glossy                   |        |       |       |         |         | 1       |       |      |         |        |        |       |       |       |       |       | 1     |
| IBIS, White-faced              |        |       |       |         |         | 25      | 16    |      |         |        |        | 1     |       |       | 2     | 1     | 45    |
| IBIS, <i>Plegadis</i> species  |        |       | 1     |         |         | 59      |       |      |         | 4      |        |       |       |       |       |       | 64    |
| SPOONBILL, Roseate             |        | 72    | 1     |         | 8       | 1       | 7     | 1    |         | 3      |        |       |       | 5     | 9     | 2     | 109   |
| VULTURE, Black                 |        | 120   | 18    | 11      | 4       | 3       | 3     | 13   |         | 1      | 11     | 2     |       | 2     | 2     | 4     | 194   |
| VULTURE, Turkey                |        | 11    | 21    | 3       | 16      | 6       | 3     | 14   | 1       | 2      | 26     |       |       | 6     | 4     | 2     | 115   |
| VULTURE species                |        |       |       |         |         |         |       |      |         | 80     |        |       |       |       |       |       | 80    |
| OSPREY                         |        |       |       |         |         |         |       |      |         |        |        | 1     |       | 3     |       | 1     | 5     |
| KITE, White-tailed             |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 4     |       | 4     |
| <b>KITE, Swallow-tailed</b>    |        |       | 1     |         |         |         |       |      |         |        |        |       |       |       |       |       | 1     |
| KITE, Mississippi              |        |       | 11    |         |         |         | 1     |      |         |        |        |       |       |       |       |       | 12    |
| HARRIER, Northern              |        |       |       |         |         |         |       |      |         | 1      |        |       |       |       |       |       | 1     |
| HAWK, Sharp-shinned            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| HAWK, Cooper's                 |        |       |       |         |         |         | 1     |      |         |        |        |       |       |       |       |       | 1     |
| HAWK, <i>Accipiter</i> species |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| EAGLE, Bald                    |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| HAWK, White-tailed             |        | 3     |       |         |         |         | 1     |      | 2       |        |        |       |       |       |       |       | 6     |
| HAWK, Red-shouldered           |        | 2     | 8     | 2       | 1       |         | 2     |      | 1       |        | 1      |       |       |       |       |       | 17    |
| HAWK, Broad-winged             |        |       |       |         |         |         | 1     |      |         |        |        |       |       |       |       |       | 1     |
| HAWK, Swainson's               |        |       | 1     |         |         | 1       |       | 2    |         | 1      |        |       |       | 1     |       |       | 6     |
| HAWK, Red-tailed               |        | 2     |       |         |         |         |       |      |         |        |        |       |       |       |       |       | 2     |
| HAWK species                   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| OWL, Barn                      |        | 2     |       |         |         |         |       |      |         |        |        |       |       |       |       |       | 2     |
| SCREECH-OWL, Eastern           |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| OWL, Great Horned              |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| OWL, Barred                    |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| KINGFISHER, Belted             |        | 1     | 1     |         |         |         |       |      |         |        |        |       |       |       |       | 1     | 3     |

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| SPECIES                           | SECTOR | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|-----------------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
|                                   |        | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| SAPSUCKER, Yellow-bellied         |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WOODPECKER, Red-headed            |        |       | 2     | 2       |         |         |       |      |         |        |        |       |       |       |       |       | 4     |
| <b>WOODPECKER, Golden-fronted</b> |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WOODPECKER, Red-bellied           |        | 5     | 16    | 2       |         | 2       |       |      |         |        |        |       |       | 3     |       |       | 28    |
| WOODPECKER, Downy                 |        | 7     | 9     | 2       |         | 2       |       |      |         |        |        |       |       | 6     |       |       | 26    |
| WOODPECKER, Hairy                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLICKER, Northern                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WOODPECKER, Pileated              |        |       | 1     | 1       |         |         |       |      |         |        |        |       |       |       |       |       | 2     |
| CARACARA, Crested                 |        | 4     |       |         |         |         | 3     | 3    |         | 1      |        | 1     |       |       | 1     | 3     | 16    |
| KESTREL, American                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| MERLIN                            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FALCON, Peregrine                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, Olive-sided           |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WOOD-PEWEE, Eastern               |        |       |       |         |         |         |       |      |         |        |        |       |       | 2     |       |       | 2     |
| <b>FLYCATCHER, Yellow-bellied</b> |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, Acadian               |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| <b>FLYCATCHER, Alder</b>          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| <b>FLYCATCHER, Willow</b>         |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, "Traill's"            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, Least                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, <i>Empidonax</i>      |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| PHOEBE, Eastern                   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, Vermilion             |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| FLYCATCHER, Great Crested         |        | 7     | 10    |         |         |         | 2     |      |         |        |        |       |       | 4     |       |       | 23    |
| KISKADEE, Great                   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| KINGBIRD, Couch's                 |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| KINGBIRD, Tropical/Couch's        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| KINGBIRD, Western                 |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| KINGBIRD, Eastern                 |        | 4     |       |         |         |         | 7     | 2    |         | 2      |        |       |       | 4     | 3     |       | 22    |
| FLYCATCHER, Scissor-tailed        |        | 15    | 6     |         | 3       |         | 1     | 8    | 2       | 1      |        |       |       | 1     |       |       | 37    |
| SHRIKE, Loggerhead                |        | 7     | 4     |         | 1       |         | 14    | 2    | 4       |        |        | 6     | 3     | 6     | 1     | 3     | 51    |
| VIREO, White-eyed                 |        | 4     | 12    | 3       | 1       |         |       | 3    |         |        |        |       |       | 2     | 1     |       | 26    |
| VIREO, Yellow-throated            |        |       | 2     | 2       |         |         |       |      |         |        |        |       |       |       |       |       | 4     |
| VIREO, Blue-headed                |        |       |       |         |         |         |       |      |         |        |        |       |       | 2     |       |       | 2     |
| VIREO, Philadelphia               |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| VIREO, Warbling                   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| VIREO, Red-eyed                   |        |       | 5     | 2       |         | 2       |       |      |         |        |        |       |       | 2     |       |       | 11    |
| <b>VIREO, Yellow-green</b>        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| <b>VIREO, Black Whiskered</b>     |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |

## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES                      | SECTOR | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|------------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
|                              |        | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| JAY, Blue                    |        | 15    | 38    | 12      | 1       | 2       | 14    | 1    |         | 1      | 4      |       |       | 11    |       |       | 99    |
| CROW, American               |        | 7     | 20    | 2       |         |         |       |      |         |        | 1      |       |       |       |       |       | 30    |
| CROW, Fish                   |        |       | 24    | 7       |         | 6       | 10    |      |         |        |        |       |       |       |       |       | 47    |
| CROW, Species                |        |       |       | 16      | 3       |         |       |      | 1       |        |        |       |       |       |       |       | 20    |
| SWALLOW, N. Rough-winged     |        |       |       | 2       |         |         | 2     |      |         |        |        |       |       |       |       |       | 4     |
| MARTIN, Purple               |        | 24    | 27    |         | 8       | 8       | 38    | 13   | 4       | 16     | 21     | 9     |       | 21    |       |       | 189   |
| SWALLOW, Tree                |        |       |       |         | 1       |         | 1     | 31   |         | 2      |        |       |       | 9     |       |       | 44    |
| SWALLOW, Bank                |        | 11    | 19    |         |         |         |       |      |         |        |        |       |       |       |       |       | 30    |
| SWALLOW, Barn                |        |       |       | 1       | 1       | 5       | 14    | 18   |         | 7      | 1      | 9     | 10    | 10    | 7     | 7     | 90    |
| SWALLOW, Cliff               |        | 50    | 23    | 68      |         | 20      | 31    |      |         | 80     | 40     | 40    |       |       |       |       | 352   |
| SWALLOW, Cave                |        | 26    | 20    |         |         |         |       |      |         |        | 10     |       |       |       |       |       | 56    |
| SWALLOW, Cave/Cliff          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SWALLOW species              |        |       |       |         | 1       |         |       |      | 1       | 1      |        |       |       |       |       |       | 3     |
| CHICKADEE, Carolina          |        | 17    | 29    | 3       | 1       |         | 6     | 1    |         |        |        |       |       | 1     |       |       | 58    |
| <b>NUTHATCH species</b>      |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| TITMOUSE, Tufted             |        |       | 6     | 7       |         |         |       |      |         |        |        |       |       |       |       |       | 13    |
| WREN, Sedge                  |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WREN, Marsh                  |        |       |       |         |         | 1       |       |      |         |        |        | 1     |       | 3     | 2     | 5     | 12    |
| WREN, Carolina               |        | 14    | 19    | 13      |         |         | 1     | 3    |         | 6      |        |       |       | 1     |       |       | 57    |
| GNATCATCHER, Blue-gray       |        |       | 1     | 1       |         |         |       |      |         |        |        |       |       | 1     |       | 1     | 4     |
| KINGLET, Ruby-crowned        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| BLUEBIRD, Eastern            |        | 18    | 26    |         |         |         |       | 11   | 7       | 1      |        |       |       |       |       |       | 63    |
| VEERY                        |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| THRUSH, Gray-cheeked         |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| THRUSH, Swainson's           |        |       |       |         |         |         |       |      |         |        |        |       |       | 2     |       |       | 2     |
| THRUSH, Wood                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| ROBIN, American              |        |       | 4     | 2       |         |         | 1     |      |         |        | 4      |       |       |       |       |       | 11    |
| CATBIRD, Gray                |        | 2     |       |         |         |         |       |      |         |        |        |       |       | 3     |       |       | 5     |
| THRASHER, Brown              |        | 5     | 2     |         |         |         |       | 1    |         |        |        |       |       | 6     |       |       | 14    |
| <b>MOCKINGBIRD, Tropical</b> |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| MOCKINGBIRD, Northern        |        | 18    | 85    | 19      | 24      | 4       | 45    | 33   | 10      | 12     | 11     | 6     |       | 14    | 2     | 1     | 284   |
| STARLING, European           |        | 27    | 20    | 29      | 6       |         | 97    | 12   | 1       | 9      | 10     | 33    | 1     | 7     |       | 2     | 254   |
| WAXWING, Cedar               |        |       |       |         |         |         | 16    |      |         |        |        |       |       |       |       |       | 16    |
| FINCH, House                 |        |       |       |         |         |         | 16    |      |         |        |        |       |       |       |       |       | 16    |
| GOLDFINCH, American          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SPARROW, Chipping            |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SPARROW, Lark                |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       | 1     | 1     |
| SPARROW, White-crowned       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SPARROW, White-throated      |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |

## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES                  |        | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | 2023  |
|--------------------------|--------|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| Recorder                 | SECTOR | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes | Total |
| SPARROW, Seaside         |        |       |       |         |         |         |       |      |         |        |        | 13    |       |       |       |       | 13    |
| SPARROW, Nelson's        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| SPARROW, Savannah        |        |       |       |         |         |         |       |      |         |        |        |       |       |       | 2     | 6     | 8     |
| TOWHEE, Eastern          |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| CHAT, Yellow-breasted    |        |       | 1     |         |         |         |       |      |         |        |        |       |       |       |       |       | 1     |
| BLACKBIRD, Yellow-headed |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| BOBOLINK                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| MEADOWLARK, Eastern      |        | 56    | 42    | 1       | 17      | 2       |       | 6    | 7       | 7      |        |       |       |       |       |       | 138   |
| MEADOWLARK species       |        |       |       |         |         |         |       |      |         |        |        |       | 2     |       |       |       | 2     |
| ORIOLE, Orchard          |        |       |       |         |         |         |       |      |         |        |        | 2     |       | 17    |       | 22    | 41    |
| <b>ORIOLE, Hooded</b>    |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| ORIOLE, Baltimore        |        |       | 1     |         |         |         |       |      |         |        |        |       |       |       |       |       | 1     |
| BLACKBIRD, Red-winged    |        | 98    | 12    | 1       | 6       | 34      | 32    | 12   | 1       | 22     | 1      | 36    |       | 42    | 16    | 53    | 366   |
| COWBIRD, Bronzed         |        |       |       |         |         |         |       |      |         |        |        |       | 1     |       |       |       | 1     |
| COWBIRD, Brown-headed    |        | 33    | 15    |         | 4       | 2       | 33    | 1    |         |        |        | 3     | 12    | 21    | 4     | 10    | 138   |
| GRACKLE, Common          |        | 4     | 10    |         | 1       |         | 10    | 10   | 1       | 17     | 6      |       |       | 1     |       |       | 60    |
| GRACKLE, Boat-tailed     |        |       |       |         |         | 16      | 14    |      |         | 2      |        | 33    | 10    | 19    | 9     | 22    | 125   |
| GRACKLE, Great-tailed    |        | 16    | 11    | 17      | 2       | 6       | 70    | 8    |         | 9      | 3      | 1     | 8     | 13    | 2     |       | 166   |
| GRACKLE, Gt./Boat-tailed |        |       |       |         |         | 40      |       |      |         |        |        |       |       |       |       |       | 40    |
| GRACKLE species          |        |       |       |         |         |         |       |      |         | 17     |        |       |       |       |       |       | 17    |
| BLACKBIRD species        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| OVENBIRD                 |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Worm-eating     |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WATERTHRUSH, Louisiana   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WATERTHRUSH, Northern    |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| WARBLER, Golden-winged   |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Blue-winged     |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Black-and-white |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Prothonotary    |        |       | 3     | 2       |         |         |       |      |         |        |        |       |       |       |       |       | 5     |
| WARBLER, Swainson's      |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Tennessee       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Nashville       |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Mourning        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Kentucky        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| YELLOWTHROAT, Common     |        |       | 1     | 1       |         | 3       | 8     |      |         | 1      |        | 4     |       | 12    | 2     | 10    | 42    |
| WARBLER, Hooded          |        |       |       | 3       |         |         |       |      |         |        |        |       |       |       |       |       | 3     |
| REDSTART, American       |        |       |       |         |         |         |       |      |         |        |        |       |       | 1     |       |       | 1     |
| WARBLER, Cape May        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |
| WARBLER, Cerulean        |        |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |       |



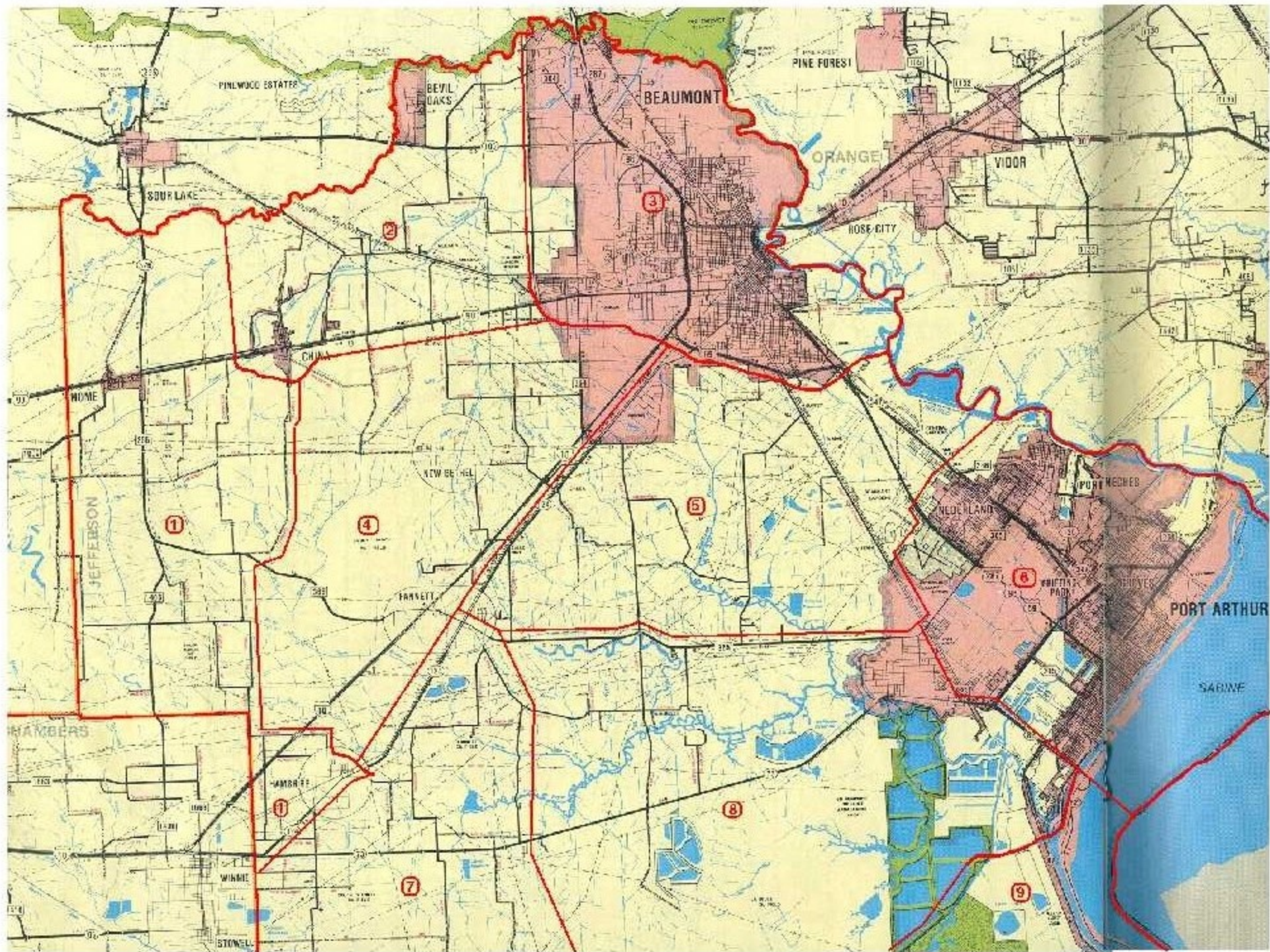
## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES                             | SECTOR | 1           | 2           | 3          | 4          | 5          | 6           | 7          | 8A         | 8B         | 8C         | 9          | 9A         | 10         | 11         | 12         | 2023        |
|-------------------------------------|--------|-------------|-------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
|                                     |        | Sliva       | Sliva       | Whittle    | Whittle    | Stewart    | Roden       | Gary       | Whittle    | Denise     | Denise     | Mayes      | Roden      | Mayes      | Mayes      | Mayes      | Total       |
| PARULA, Northern                    |        |             | 2           |            |            |            |             |            |            |            |            |            |            |            |            |            | 2           |
| WARBLER, Magnolia                   |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Bay-breasted               |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Blackburnian               |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Yellow                     |        |             |             | 1          |            |            |             |            |            |            |            |            |            |            |            | 2          | 3           |
| WARBLER, Chestnut-sided             |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Blackpoll                  |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| <b>WARBLER, Black-throated Blue</b> |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Palm                       |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Pine                       |        |             |             | 3          |            |            |             |            |            |            |            |            |            |            |            |            | 3           |
| WARBLER, Yellow-rumped              |        |             |             |            |            |            |             |            |            |            |            |            |            | 1          |            |            | 1           |
| WARBLER, Yellow-throated            |        |             |             | 1          |            |            |             |            |            |            |            |            |            |            |            |            | 1           |
| <b>WARBLER, Prairie</b>             |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Black-throated Green       |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Canada                     |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| WARBLER, Wilson's                   |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| TANAGER, Summer                     |        | 1           | 2           |            |            |            |             |            |            |            |            |            |            | 1          |            |            | 4           |
| TANAGER, Scarlet                    |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| TANAGER, Western                    |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| CARDINAL, Northern                  |        | 21          | 26          | 7          | 3          | 5          | 18          | 10         | 1          | 5          |            | 1          |            | 12         |            | 3          | 112         |
| GROSBEAK, Rose-breasted             |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| <b>GROSBEAK, Black-headed</b>       |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| GROSBEAK, Blue                      |        |             |             | 1          |            |            |             |            |            |            |            |            |            |            |            |            | 1           |
| BUNTING, Indigo                     |        |             |             | 1          |            |            |             |            |            |            |            |            |            | 1          |            | 2          | 4           |
| BUNTING, Painted                    |        |             |             | 1          | 1          |            |             |            |            |            |            |            |            |            |            |            | 2           |
| DICKCISSEL                          |        | 84          |             |            | 15         |            |             | 1          |            | 2          |            |            |            |            |            |            | 102         |
| SPARROW, House                      |        | 16          | 36          | 17         | 2          |            | 10          |            | 5          |            | 6          | 1          |            |            |            |            | 93          |
| <b>TOTAL INDIVIDUALS</b>            |        | <b>1559</b> | <b>1049</b> | <b>420</b> | <b>260</b> | <b>892</b> | <b>1046</b> | <b>535</b> | <b>134</b> | <b>585</b> | <b>216</b> | <b>372</b> | <b>129</b> | <b>419</b> | <b>533</b> | <b>601</b> | <b>7191</b> |
| <b>TOTAL SPECIES</b>                |        | <b>72</b>   | <b>77</b>   | <b>48</b>  | <b>42</b>  | <b>54</b>  | <b>64</b>   | <b>40</b>  | <b>26</b>  | <b>42</b>  | <b>33</b>  | <b>50</b>  | <b>24</b>  | <b>78</b>  | <b>68</b>  | <b>65</b>  | <b>168</b>  |
| Number of Observers                 |        | 2           | 2           | 2          | 2          | 1          | 3           | 3          | 2          | 3          | 3          | 1          | 3          | 3          | 1          | 1          | 15          |
| Number of Parties                   |        | 1           | 1           | 1          | 1          | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          | 3          | 1          | 1          | 10          |
| Number of Party-Hours - Foot        |        |             | 0.5         | 0.8        |            | 6          | 1.0         |            |            |            |            | 0.5        | 0.5        | 10.5       | 1.5        |            | 21.3        |
| Number of Party-Hours - Car         |        | 5.0         | 6.0         | 5.2        | 4.4        | 4          | 5.0         | 4.5        | 0.9        | 3.0        | 1.8        | 0.5        | 3.5        | 0.5        | 0.5        | 3.0        | 42.8        |
| Number of Party-Hours - Bicycle     |        |             |             |            |            |            |             |            |            |            |            |            |            |            |            |            |             |
| Number of Party-Hours - Stationary  |        | 1.0         | 1.0         |            |            |            |             |            |            |            |            |            |            |            |            |            |             |

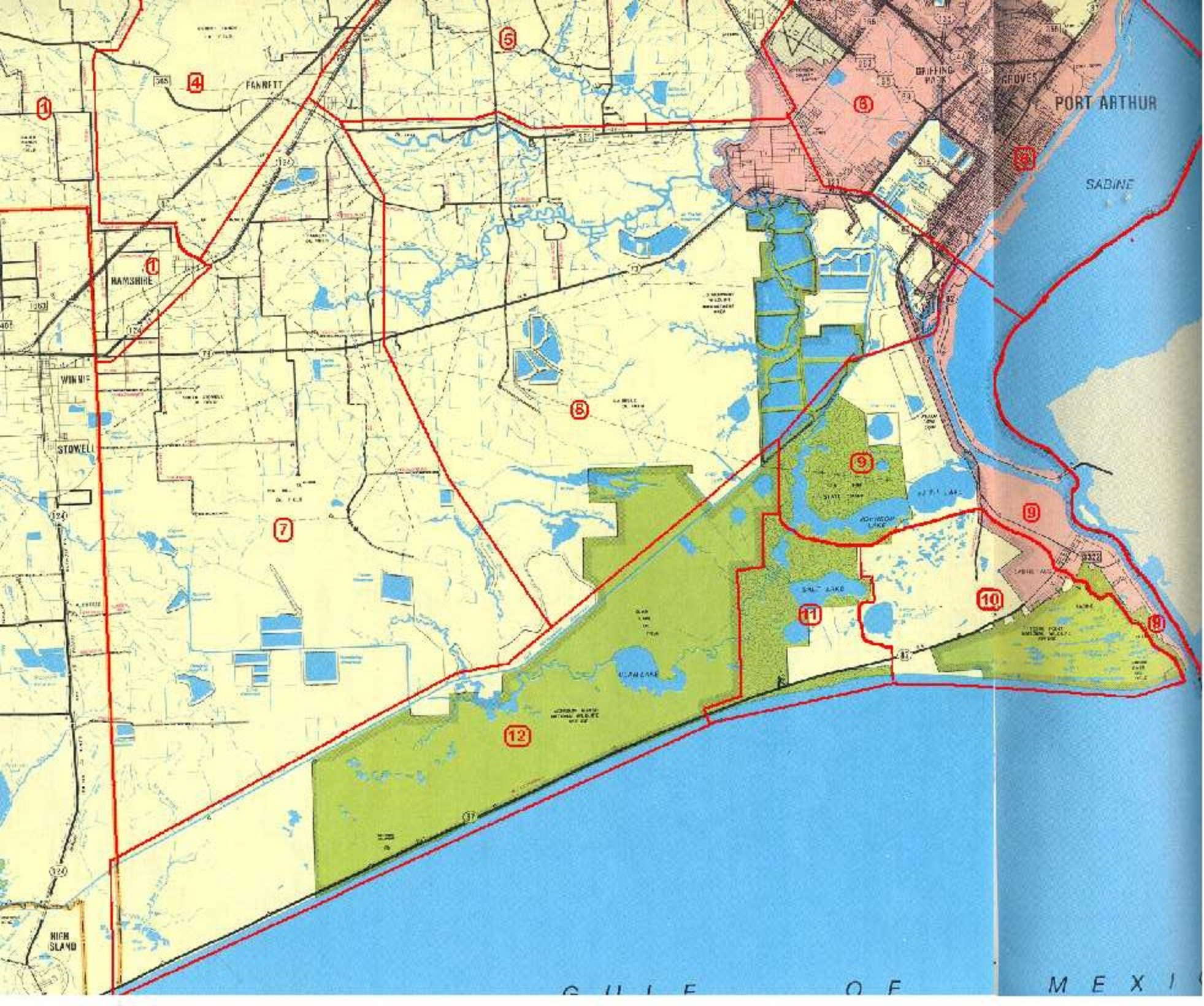
## NORTH AMERICAN SPRING 2023 MIGRATION COUNT JEFFERSON COUNTY, TEXAS

| SPECIES   |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              | 2023 |
|---|-------|-------|---------|---------|---------|-------|------|---------|--------|--------|-------|-------|-------|-------|-------|--------------|------|
| SECTOR  | 1     | 2     | 3       | 4       | 5       | 6     | 7    | 8A      | 8B     | 8C     | 9     | 9A    | 10    | 11    | 12    | Total        |      |
| Recorder  | Sliva | Sliva | Whittle | Whittle | Stewart | Roden | Gary | Whittle | Denise | Denise | Mayes | Roden | Mayes | Mayes | Mayes |              |      |
| Number of Party-Hours - Canoe   |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              |      |
| Total Party-hours   | 6.0   | 7.5   | 6.0     | 4.4     | 10      | 6.0   | 4.5  | 0.9     | 3.0    | 1.8    | 1.0   | 4.0   | 11.0  | 2.0   | 3.0   | <b>65.0</b>  |      |
| Number of Party-Miles - Foot  |       |       | 0.3     |         | 3       | 0.3   |      |         |        |        | 0.5   | 0.1   | 9.2   | 0.5   |       | <b>13.9</b>  |      |
| Number of Party-Miles - Car   | 45.0  | 40.0  | 59.0    | 35.4    | 25      | 50.0  | 24.1 | 14.2    | 19.3   | 10.0   | 7.9   | 9.0   | 6.0   | 1.0   | 7.3   | <b>308.2</b> |      |
| Number of Party-Miles - Bicycle   |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              |      |
| Number of Party-Miles - Canoe   |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              |      |
| Total Party-Miles   | 45.0  | 40.0  | 59.3    | 35.4    | 28      | 50.3  | 24.1 | 14.2    | 19.3   | 10.0   | 8.4   | 9.1   | 15.2  | 1.5   | 7.3   | <b>322.1</b> |      |
| Participants: Howard and Linda Davis, Ashley Fuselier, Sherry Gibson, John Haynes, Thomas Hellweg, Gary and Denise Kelley, Steve Mayes, Sherrie Roden, Christine Sliva, Harlan Stewart, Elizabeth Timmer, John and Jana Whittle |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              |      |
|   |       |       |         |         |         |       |      |         |        |        |       |       |       |       |       |              |      |











## NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                          | 12-year average | 2023 Total | 2022 Total | 2021 Total | 2020 Total | 2019 Total | 2018 Total | 2017 Total | 2016 Total | 2015 Total | 2014 Total | 2013 Total | 2012 Total |
|----------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| WHISTLING-DUCK, Black-bellied    | 119.6           | 174        | 173        | 75         | 164        | 133        | 94         | 85         | 242        | 90         | 73         | 68         | 64         |
| WHISTLING-DUCK, Fulvous          | 51.4            | 47         | 63         | 2          | 42         | 26         | 143        | 57         | 17         | 40         | 72         | 63         | 45         |
| <b>TEAL, Ringed</b>              | 0.1             |            |            |            |            |            | 1          |            |            |            |            |            |            |
| DUCK, Wood                       | 5.1             |            | 2          | 2          | 2          | 4          | 4          | 19         | 7          | 5          | 6          | 7          | 3          |
| TEAL, Blue-winged                | 139.0           | 53         | 26         | 82         | 241        | 54         | 99         | 88         | 150        | 271        | 245        | 263        | 96         |
| TEAL, Cinnamon                   | 0.3             |            |            | 3          |            |            |            |            |            |            |            |            |            |
| TEAL, Cinnamon/Teal hybrid       | 0.1             |            |            | 1          |            |            |            |            |            |            |            |            |            |
| SHOVELER, Northern               | 1.7             |            |            | 4          |            |            | cw         |            | 4          | 5          | 3          | 2          | 2          |
| GADWALL                          | 0.8             |            |            |            |            |            |            |            |            | 3          | 4          |            | 2          |
| WIGEON, American                 | 0.1             |            |            |            |            |            |            |            |            | 1          |            |            |            |
| MALLARD                          | 0.5             |            |            |            |            |            |            | 1          |            |            |            | 3          | 2          |
| DUCK, Mottled                    | 34.1            | 41         | 19         | 27         | 22         | 20         | 44         | 46         | 21         | 56         | 37         | 44         | 32         |
| TEAL, Green-winged               | 0.3             |            |            |            |            |            | 1          | 2          |            |            |            |            |            |
| DUCK, Ring-necked                |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| <b>SCAUP, Greater</b>            |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| SCAUP, Lesser                    | 1.8             |            | 1          |            | 2          |            |            | 4          |            | 4          | 3          | 2          | 6          |
| MERGANSEER, Red-breasted         | 0.2             |            |            |            |            |            |            | 1          |            |            |            | 1          |            |
| MERGANSEER, species              |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| DUCK, Ruddy                      | 1.9             |            |            |            |            |            | 1          | 19         |            | 2          |            |            | 1          |
| DUCK, species                    | 1.3             | 2          |            |            | 1          | 10         |            |            |            |            |            |            | 2          |
| BOBWHITE, Northern               | 4.8             |            |            |            |            | 2          | 1          | 4          | 12         | 15         | 10         | 3          | 11         |
| GREBE, Least                     | 0.9             |            | cw         |            |            |            | 1          | 8          |            |            |            | 2          |            |
| GREBE, Pied-billed               | 2.9             | 5          | 5          | 1          | 2          | 1          | 1          | 7          | 2          | 2          |            | 7          | 2          |
| GREBE, Eared                     | 0.1             |            |            |            |            |            |            | 1          |            |            |            |            |            |
| PIGEON, Rock                     | 93.0            | 141        | 42         | 32         | 47         | 70         | 91         | 113        | 127        | 107        | 103        | 133        | 110        |
| DOVE, Eurasian Collared-         | 30.5            | 13         | 11         | 9          | 43         | 16         | 20         | 17         | 50         | 56         | 15         | 46         | 70         |
| DOVE, Inca                       | 4.3             | 4          | 4          | 3          | 2          | 1          | 1          | 2          | 12         | 4          | 8          | 2          | 9          |
| GROUND-DOVE, Common              | 0.2             |            |            |            | 1          |            |            |            |            |            |            |            | 1          |
| DOVE, White-winged               | 118.5           | 55         | 65         | 61         | 153        | 100        | 186        | 110        | 254        | 151        | 136        | 47         | 104        |
| DOVE, Mourning                   | 252.6           | 204        | 164        | 163        | 175        | 180        | 199        | 216        | 312        | 342        | 348        | 393        | 335        |
| CUCKOO, Yellow-billed            | 21.1            | 13         | 16         | 21         | 21         | 21         | 10         | 21         | 20         | 17         | 12         | 31         | 50         |
| CUCKOO, Black-billed             | 0.1             |            |            |            |            |            |            |            |            |            |            | 1          |            |
| NIGHTHAWK, Common                | 34.3            | 20         | 18         | 13         | 15         | 26         | 32         | 40         | 65         | 20         | 33         | 61         | 69         |
| WILL'S-WIDOW, Chuck-             | 0.1             |            |            |            |            |            | 1          |            |            |            |            |            |            |
| SWIFT, Chimney                   | 34.3            | 23         | 42         | 23         | 22         | 21         | 9          | 52         | 39         | 80         | 17         | 35         | 49         |
| HUMMINGBIRD, Ruby-throated       | 14.4            | 14         | 4          | 8          | 18         | 17         | 4          | 3          | 8          | 10         | 16         | 21         | 50         |
| <b>HUMMINGBIRD, Buff-bellied</b> |                 |            |            |            |            |            |            |            |            |            | cw         |            |            |
| HUMMINGBIRD, Species             | 1.3             |            | 3          | 3          | 1          | 3          |            | 2          | 3          |            | 1          |            |            |
| HUMMINGBIRD, Archilochus species | 0.1             | 1          |            |            |            |            |            |            |            |            |            |            |            |
| RAIL, King                       | 5.1             | 3          | 8          | 2          | 7          | 5          | 6          | 2          | 12         | 4          | 5          | 5          | 2          |
| RAIL, Clapper                    | 24.7            | 8          | 49         | 28         | 16         | 12         | 32         | 32         | 32         | 32         | 25         | 19         | 11         |
| RAIL, King/Clapper               | 0.3             |            | 1          |            |            | 1          | 2          |            |            |            |            |            |            |
| RAIL, Virginia                   | 0.7             |            | 2          |            |            |            | 1          | 2          |            |            | 2          | 1          |            |
| SORA                             | 9.8             | 4          | 6          | 8          | 1          | 5          | 9          | 13         |            | 3          | 50         | 14         | 5          |
| GALLINULE, Common                | 56.6            | 91         | 103        | 56         | 66         | 43         | 53         | 43         | 87         | 49         | 36         | 34         | 18         |
| COOT, American                   | 42.3            | 7          | 19         | 42         | 11         | 20         | 41         | 28         | 72         | 118        | 63         | 41         | 46         |
| GALLINULE, Purple                | 33.0            | 86         | 68         | 19         | 17         | 29         | 18         | 20         | 45         | 19         | 32         | 21         | 22         |
| <b>RAIL, Black</b>               | 0.1             |            |            |            |            | 1          |            |            |            |            |            |            |            |
| CRANE, Whooping                  | 0.5             |            | 1          | 1          |            |            | 4          |            |            |            |            |            |            |
| STILT, Black-necked              | 106.4           | 149        | 110        | 61         | 97         | 121        | 102        | 106        | 125        | 118        | 82         | 105        | 101        |
| AVOCET, American                 | 35.7            | 39         |            | 155        | 12         |            | 1          | 10         | 20         | 81         | 52         | 8          | 50         |

# NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                  | 12-year average | 2023 Total | 2022 Total | 2021 Total | 2020 Total | 2019 Total | 2018 Total | 2017 Total | 2016 Total | 2015 Total | 2014 Total | 2013 Total | 2012 Total |
|--------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| OYSTERCATCHER, American  | 0.3             |            |            |            |            |            |            |            |            |            | 1          | 3          |            |
| PLOVER, Black-bellied    | 49.1            | 70         | 21         | 25         | 48         | 8          | 56         | 39         | 41         | 113        | 69         | 69         | 30         |
| PLOVER, American Golden  | 1.8             |            | 3          | 6          | 3          |            |            |            |            | 1          | 6          | 2          |            |
| PLOVER, Snowy            | 0.7             |            |            | 1          |            |            |            |            | 1          | 2          | 3          | 1          |            |
| PLOVER, Wilson's         | 6.6             | 1          | 5          | 4          | 5          | 1          | 5          | 10         | 8          | 8          | 10         | 10         | 12         |
| PLOVER, Semipalmated     | 8.0             | 10         | 1          | 3          | 2          | 16         | 8          | 15         | 10         | 6          | 14         | 7          | 4          |
| PLOVER, Piping           | 1.0             | 2          |            | 1          | 1          |            |            |            | 4          | 2          | 2          |            |            |
| KILLDEER                 | 97.3            | 77         | 59         | 93         | 72         | 128        | 104        | 119        | 138        | 97         | 67         | 130        | 84         |
| PLOVER, species          |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| SANDPIPER, Upland        | 0.3             | 1          | 1          |            |            |            | 2          |            |            |            |            |            |            |
| WHIMBREL                 | 83.2            | 47         | 255        | 108        | 32         | 5          | 206        | 21         | 70         | 82         | 121        | 7          | 44         |
| CURLEW, Long-billed      | 0.8             |            |            |            | 2          |            |            |            |            |            |            |            | 7          |
| GODWIT, Hudsonian        | 7.8             | 3          | 2          |            | 10         | 14         | cw         | 2          | 6          | 14         |            | 26         | 16         |
| GODWIT, Marbled          | 0.1             |            |            |            |            |            |            |            |            |            |            |            | 1          |
| TURNSTONE, Ruddy         | 50.5            | 133        | 58         | 31         | 38         | 19         | 61         | 30         | 70         | 47         | 76         | 27         | 16         |
| KNOT, Red                | 0.4             |            |            |            |            |            | 5          |            |            |            |            |            |            |
| RUFF                     |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| SANDPIPER, Stilt         | 98.6            | 1          | 6          | 1          | 1          | 15         | 313        | 144        | 97         | 367        | 70         | 167        | 1          |
| SANDERLING               | 239.3           | 102        | 612        | 246        | 372        | 10         | 359        | 301        | 129        | 274        | 136        | 183        | 147        |
| DUNLIN                   | 87.3            | 43         | 102        | 10         | 175        | 146        | 130        | 23         | 77         | 30         | 170        | 103        | 38         |
| SANDPIPER, Baird's       | 2.3             | 1          |            |            | 3          | 2          | 2          | 2          | 7          |            | 4          | 7          |            |
| SANDPIPER, Least         | 56.1            | 26         | 52         | 21         | 54         | 38         | 56         | 46         | 74         | 145        | 45         | 89         | 27         |
| SANDPIPER, White-rumped  | 288.7           | 63         | 407        | 16         | 231        | 87         | 148        | 446        | 202        | 527        | 448        | 828        | 61         |
| SANDPIPER, Buff-breasted | 3.8             |            |            |            |            |            | 7          |            | 1          |            | 4          | 34         |            |
| SANDPIPER, Pectoral      | 25.6            | 1          | 2          | 5          | 11         | 20         | 41         | 3          | 27         | 5          | 38         | 116        | 38         |
| SANDPIPER, Semipalmated  | 66.3            | 39         | 42         | 7          | 75         | 38         | 56         | 75         | 51         | 5          | 23         | 294        | 90         |
| SANDPIPER, Western       | 10.0            |            | 5          |            | 18         | 17         |            | 13         | 24         | 6          | 3          | 19         | 15         |
| SANDPIPER, "Peep"        | 136.7           | 40         | 216        | 42         | 427        | 88         | 160        | 49         | 117        | 65         | 100        | 227        | 109        |
| DOWITCHER, Short-billed  | 22.8            | 26         | 19         | 18         |            | 45         |            |            | 2          | 1          | 58         | 104        | 1          |
| DOWITCHER, Long-billed   | 13.7            | 19         | 33         |            | 2          | 38         | 28         | 2          | 12         | 18         | 8          | 3          | 1          |
| DOWITCHER species        | 18.1            | 40         | 3          | 3          | 12         | 25         | 30         |            | 28         | 3          | 17         | 56         |            |
| SNIFE, Wilson's          | 0.1             | 1          |            |            |            |            |            |            |            |            |            |            |            |
| PHALAROPE, Wilson's      | 85.8            | 14         |            |            | 50         | 10         | 13         | 7          | 32         | 92         | 473        | 335        | 4          |
| SANDPIPER, Spotted       | 16.8            | 8          | 5          | 14         | 32         | 13         | 4          | 15         | 22         | 12         | 23         | 27         | 26         |
| SANDPIPER, Solitary      | 0.5             |            | 1          | 2          | 1          | 2          |            |            |            |            |            |            |            |
| YELLOWLEGS, Greater      | 12.7            | 13         | 4          | 8          | 15         | 18         | 3          | 7          | 7          | 11         | 22         | 32         | 12         |
| WILLET                   | 40.5            | 48         | 58         | 26         | 33         | 35         | 39         | 41         | 40         | 24         | 69         | 33         | 40         |
| YELLOWLEGS, Lesser       | 73.7            | 6          | 22         | 49         | 26         | 29         | 38         | 24         | 27         | 53         | 330        | 234        | 46         |
| YELLOWLEGS species       | 3.2             | 1          | 1          | 19         | 1          | 1          |            | 2          |            | 2          |            | 4          | 7          |
| GULL, Laughing           | 180.8           | 113        | 54         | 323        | 296        | 164        | 312        | 142        | 155        | 253        | 108        | 122        | 127        |
| GULL, Franklin's         | 0.7             |            |            |            |            |            | 2          | 1          |            |            |            | 5          |            |
| GULL, Ring-billed        | 4.0             | 1          | 1          | 3          | 4          | 2          | 9          | 7          |            | 3          | 12         | 3          | 3          |
| GULL, Herring            | 2.8             | 7          |            | 7          | 6          |            |            | 2          | 1          | 5          | 5          |            |            |
| <b>GULL, Glaucous</b>    | 0.1             |            |            |            |            |            |            | 1          |            |            |            |            |            |
| GULL species             | 21.7            | 10         |            | 250        |            |            |            |            |            |            |            |            |            |
| TERN, Least              | 63.8            | 57         | 46         | 59         | 18         | 17         | 66         | 169        | 118        | 117        | 33         | 20         | 45         |
| TERN, Gull-billed        | 1.1             |            | 1          | 1          | 1          | 1          | 1          |            | 3          |            | 2          | 2          | 1          |
| TERN, Caspian            | 9.3             | 4          | 6          | 3          | 33         | 2          |            | 36         |            | 10         | 11         | 6          | 1          |
| TERN, Black              | 156.5           | 46         | 76         | 252        | 35         | 28         | 42         | 211        | 51         | 419        | 530        | 127        | 61         |
| TERN, Common             | 1.8             |            | 6          |            |            |            |            | 2          | 4          | 2          | 6          | 2          |            |
| TERN, Forster's          | 31.8            | 38         | 12         | 60         | 25         | 11         | 10         | 51         | 12         | 69         | 39         | 37         | 18         |

## NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                        | 12-year<br>average | 2023<br>Total | 2022<br>Total | 2021<br>Total | 2020<br>Total | 2019<br>Total | 2018<br>Total | 2017<br>Total | 2016<br>Total | 2015<br>Total | 2014<br>Total | 2013<br>Total | 2012<br>Total |
|--------------------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TERN, Royal                    | 64.2               | 41            | 69            | 17            | 65            | 6             | 37            | 378           | 6             | 12            | 87            | 50            | 2             |
| TERN, Sandwich                 | 5.0                | 6             | 1             | 9             | 4             |               |               | 18            |               |               | 22            |               |               |
| SKIMMER, Black                 | 61.3               |               |               | 15            | 79            | 51            | 151           | 293           | 5             |               | 2             | 133           | 6             |
| <b>LOON, Common</b>            | 0.3                |               |               |               |               |               | 1             |               | 1             |               | 1             | 1             |               |
| <b>STORK, Wood</b>             | 2.1                |               |               |               |               |               |               |               |               |               |               | 25            |               |
| FRIGATEBIRD, Magnificent       | 0.3                | 1             |               |               |               |               |               |               |               | 2             |               |               |               |
| <b>BOOBY, Brown</b>            | 0.3                |               |               |               | 3             |               |               |               |               |               |               |               |               |
| ANHINGA                        | 5.3                | 6             | 3             | 1             | 2             | 4             | 5             | 8             | 13            | 7             | 2             | 9             | 3             |
| CORMORANT, Neotropic           | 157.2              | 158           | 177           | 138           | 110           | 79            | 77            | 315           | 448           | 83            | 71            | 110           | 120           |
| CORMORANT, Double-crested      | 2.0                |               |               | 1             | 2             | 1             |               |               | 7             | 3             | 8             |               | 2             |
| CORMORANT species              | 3.3                | 3             | 1             | 12            | 6             | 8             |               |               | 8             |               | 1             |               |               |
| PELICAN, American White        | 14.2               | 7             |               | 4             |               |               |               |               | 32            | 31            | 25            | 11            | 60            |
| PELICAN, Brown                 | 63.8               | 203           | 26            | 40            | 33            | 20            | 98            | 85            | 28            | cw            | 39            | 80            | 113           |
| BITTERN, American              | 0.3                |               |               |               |               |               |               |               |               |               | 1             | 2             |               |
| BITTERN, Least                 | 8.3                | 8             | 6             | 2             | 4             | 17            | 9             | 11            | 11            | 10            | 11            | 6             | 5             |
| HERON, Great Blue              | 15.2               | 8             | 6             | 7             | 10            | 15            | 24            | 21            | 13            | 25            | 11            | 30            | 12            |
| EGRET, Great                   | 177.2              | 276           | 253           | 124           | 146           | 151           | 289           | 154           | 109           | 164           | 83            | 214           | 163           |
| EGRET, Snowy                   | 114.8              | 225           | 71            | 112           | 95            | 115           | 76            | 109           | 93            | 86            | 84            | 189           | 122           |
| HERON, Little Blue             | 63.9               | 70            | 87            | 53            | 66            | 72            | 62            | 102           | 55            | 35            | 76            | 27            | 62            |
| HERON, Tricolored              | 40.2               | 40            | 23            | 23            | 31            | 37            | 29            | 51            | 50            | 57            | 50            | 55            | 36            |
| EGRET, Reddish                 | 0.3                | 2             |               |               |               |               |               |               | 1             |               |               |               |               |
| EGRET, Cattle                  | 754.8              | 705           | 832           | 790           | 981           | 558           | 502           | 685           | 666           | 583           | 1055          | 866           | 835           |
| HERON, Green                   | 36.0               | 44            | 37            | 28            | 32            | 50            | 28            | 36            | 34            | 19            | 33            | 42            | 49            |
| NIGHT-HERON, Black-crowned     | 8.2                | 10            | 12            | 2             | 2             | 5             | 6             | 13            | 10            | 3             | 2             | 12            | 21            |
| NIGHT-HERON, Yellow-crowned    | 41.3               | 35            | 54            | 28            | 35            | 19            | 50            | 23            | 65            | 42            | 39            | 35            | 70            |
| NIGHT-HERON species            | 0.7                |               |               |               |               |               | 4             |               | 4             |               |               |               |               |
| IBIS, White                    | 190.5              | 394           | 295           | 292           | 39            | 64            | 288           | 170           | 116           | 279           | 91            | 145           | 113           |
| IBIS, Glossy                   | 1.3                | 1             |               |               | 4             | 1             | cw            | 1             | 2             | 1             | 2             | 3             |               |
| IBIS, White-faced              | 70.5               | 45            | 106           | 1             | 264           | 31            | 15            | 29            | 41            | 32            | 89            | 141           | 52            |
| IBIS, <i>Plegadis</i> species  | 87.3               | 64            | 215           | 94            | 62            | 125           | 43            | 139           | 46            | 33            | 112           | 104           | 10            |
| SPOONBILL, Roseate             | 42.4               | 109           | 33            | 2             | 40            | 139           | 11            | 21            | 20            | 75            | 18            | 21            | 20            |
| VULTURE, Black                 | 82.6               | 194           | 116           | 105           | 76            | 48            | 66            | 49            | 83            | 52            | 55            | 107           | 40            |
| VULTURE, Turkey                | 85.3               | 115           | 55            | 144           | 131           | 24            | 65            | 93            | 147           | 89            | 60            | 51            | 50            |
| VULTURE species                | 7.5                | 80            |               |               | 10            |               |               |               |               |               |               |               |               |
| OSPREY                         | 3.0                | 5             | 4             | 3             | 7             | 4             | 4             | 6             |               | 1             | 1             |               | 1             |
| KITE, White-tailed             | 1.1                | 4             | 2             | 1             | 2             | 1             |               |               | 2             |               | 1             |               |               |
| <b>KITE, Swallow-tailed</b>    | 1.0                | 1             | 2             |               | 4             |               | 1             | 1             | 1             | 1             | 1             |               |               |
| KITE, Mississippi              | 5.4                | 12            | 9             | 6             | 11            | 2             | 1             | 6             | 9             | 2             | 4             | 1             | 2             |
| HARRIER, Northern              | 0.7                | 1             |               | 3             |               | 2             | 1             |               | 1             |               |               |               |               |
| HAWK, Sharp-shinned            | 0.2                |               |               |               |               |               |               |               | 1             |               |               | 1             |               |
| HAWK, Cooper's                 | 1.1                | 1             | 2             |               |               | 1             | 1             | 1             |               | 1             | 2             | 3             | 1             |
| HAWK, <i>Accipiter</i> species | 0.1                |               |               |               |               |               |               |               |               |               |               | 1             |               |
| EAGLE, Bald                    | 1.5                |               | 1             | 1             | 2             | 1             | 1             | 1             | 1             | 2             | 3             | 2             | 3             |
| HAWK, White-tailed             | 1.2                | 6             | 2             |               |               | 2             |               | 1             |               | 2             | 1             |               |               |
| HAWK, Red-shouldered           | 11.0               | 17            | 10            | 5             | 9             | 11            | 5             | 19            | 11            | 8             | 9             | 14            | 14            |
| HAWK, Broad-winged             | 2.2                | 1             |               | 2             | 5             |               |               | 4             | 3             | 5             | 2             | 1             | 3             |
| HAWK, Swainson's               | 5.7                | 6             | 1             | 4             | 5             | 4             | 4             | 13            | 6             | 9             | 6             | 7             | 3             |
| HAWK, Red-tailed               | 5.9                | 2             | 1             | 5             | 10            | 16            | 4             | 9             | 3             | 3             | 2             | 5             | 11            |
| HAWK species                   | 0.6                |               |               | 2             | 1             |               | 1             |               |               |               | 2             |               | 1             |
| OWL, Barn                      | 1.2                | 2             |               | 1             | 2             | 4             |               | 2             |               | 2             |               |               | 1             |
| SCREECH-OWL, Eastern           | 0.8                |               |               |               |               |               | 3             | 2             |               | 1             | 1             | 1             | 1             |

# NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                           | 12-year average | 2023 Total | 2022 Total | 2021 Total | 2020 Total | 2019 Total | 2018 Total | 2017 Total | 2016 Total | 2015 Total | 2014 Total | 2013 Total | 2012 Total |
|-----------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| OWL, Great Horned                 | 1.3             | 1          |            | 3          | 1          | 1          | cw         | 1          | 2          | 3          | cw         | 2          | 2          |
| OWL, Barred                       | 3.3             |            |            |            | 6          | 2          |            | 5          | 9          | 3          | 2          | 7          | 5          |
| KINGFISHER, Belted                | 1.4             | 3          | 1          | 1          |            | 1          | 1          | 3          |            | 2          | 1          | 2          | 2          |
| SAPSUCKER, Yellow-bellied         | 0.1             |            |            |            |            |            |            |            | 1          |            |            |            |            |
| WOODPECKER, Red-headed            | 8.0             | 4          | 2          | 1          |            | 3          | 1          | 5          | 15         | 23         | 10         | 17         | 15         |
| <b>WOODPECKER, Golden-fronted</b> | 0.4             |            |            |            |            |            |            |            |            | 1          | 2          | 1          | 1          |
| WOODPECKER, Red-bellied           | 32.7            | 28         | 18         | 26         | 26         | 34         | 25         | 32         | 39         | 49         | 32         | 31         | 52         |
| WOODPECKER, Downy                 | 15.5            | 26         | 16         | 14         | 20         | 20         | 6          | 11         | 10         | 18         | 10         | 16         | 19         |
| WOODPECKER, Hairy                 |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| FLICKER, Northern                 |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| WOODPECKER, Pileated              | 7.3             | 2          | 4          | 8          | 4          | 9          | 3          | 6          | 12         | 6          | 12         | 12         | 10         |
| CARACARA, Crested                 | 8.6             | 16         | 10         | 10         | 12         | 5          | 13         | 11         | 9          | 8          | 7          | 1          | 1          |
| KESTREL, American                 |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| MERLIN                            | 0.1             |            |            |            |            | 1          |            |            |            |            |            |            |            |
| FALCON, Peregrine                 | 0.8             |            | 1          | 1          |            | 1          | 2          |            |            | 2          |            | 1          | 1          |
| FLYCATCHER, Olive-sided           | 0.8             |            |            |            |            |            |            | 3          |            | 1          | 1          |            | 4          |
| WOOD-PEWEE, Eastern               | 19.9            | 2          | 4          | 1          | 19         | 9          | 3          | 42         | 7          | 7          | 15         | 43         | 87         |
| <b>FLYCATCHER, Yellow-bellied</b> | 0.9             |            |            |            |            | 1          |            | 2          | 2          |            |            | 1          | 5          |
| FLYCATCHER, Acadian               | 3.9             |            |            | 2          | 6          | 4          | 1          | 8          | 4          | 2          | 4          | 8          | 8          |
| <b>FLYCATCHER, Alder</b>          | 0.1             |            |            |            |            |            |            |            |            |            |            |            | 1          |
| <b>FLYCATCHER, Willow</b>         | 0.1             |            |            |            |            |            |            |            |            |            |            |            | 1          |
| FLYCATCHER, "Traill's"            | 0.8             |            |            |            | 1          | 1          |            | 1          | 2          | cw         |            |            | 4          |
| FLYCATCHER, Least                 | 1.0             |            |            |            | 3          |            |            | 4          |            | cw         |            | 2          | 3          |
| FLYCATCHER, <i>Empidonax</i>      | 3.3             |            |            |            | 3          | 3          | 1          | 6          | 1          | 3          | 1          | 2          | 19         |
| PHOEBE, Eastern                   | 0.3             |            |            | 2          | 1          | 1          |            |            |            |            |            |            |            |
| FLYCATCHER, Vermilion             |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| FLYCATCHER, Great Crested         | 16.3            | 23         | 14         | 26         | 20         | 19         | 6          | 8          | 24         | 25         | 6          | 12         | 13         |
| KISKADEE, Great                   |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| KINGBIRD, Couch's                 | 0.1             | 1          |            |            |            |            |            |            |            |            |            |            |            |
| KINGBIRD, Tropical/Couch's        | 0.1             |            |            |            |            |            |            |            |            |            |            | 1          |            |
| KINGBIRD, Western                 | 0.4             | 1          |            |            |            |            |            | 3          |            |            | 1          |            |            |
| KINGBIRD, Eastern                 | 67.2            | 22         | 28         | 34         | 64         | 41         | 40         | 153        | 87         | 61         | 74         | 106        | 96         |
| FLYCATCHER, Scissor-tailed        | 40.2            | 37         | 23         | 15         | 19         | 20         | 18         | 51         | 61         | 49         | 63         | 66         | 60         |
| SHRIKE, Loggerhead                | 56.7            | 51         | 32         | 25         | 41         | 35         | 26         | 72         | 69         | 92         | 69         | 73         | 95         |
| VIREO, White-eyed                 | 26.0            | 26         | 21         | 9          | 23         | 38         | 27         | 27         | 43         | 34         | 20         | 28         | 16         |
| VIREO, Yellow-throated            | 4.6             | 4          | 5          | 2          | 11         | 6          | 2          | 6          | 4          | 1          | 1          | 5          | 8          |
| VIREO, Blue-headed                | 0.2             | 2          |            |            |            |            |            |            |            |            |            |            |            |
| VIREO, Philadelphia               | 3.8             |            |            | 1          | 5          | 2          |            | 12         | 2          | cw         | 1          | 15         | 8          |
| VIREO, Warbling                   | 0.5             |            |            |            | 1          |            |            | 1          |            |            | 1          | 1          | 2          |
| VIREO, Red-eyed                   | 32.4            | 11         | 6          | 13         | 46         | 31         | 16         | 26         | 42         | 28         | 7          | 62         | 101        |
| <b>VIREO, Yellow-green</b>        | 0.1             |            |            |            |            |            |            |            |            | 1          |            |            |            |
| <b>VIREO, Black Whiskered</b>     |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| JAY, Blue                         | 94.0            | 99         | 94         | 96         | 93         | 95         | 98         | 65         | 115        | 148        | 76         | 75         | 74         |
| CROW, American                    | 29.3            | 30         | 12         | 12         | 16         | 23         | 21         | 25         | 41         | 54         | 33         | 42         | 43         |
| CROW, Fish                        | 27.8            | 47         | 35         | 20         | 14         | 24         | 19         | 12         | 35         | 37         | 32         | 20         | 39         |
| CROW, Species                     | 14.1            | 20         | 9          | 18         | 22         | 8          | 19         | 20         | 36         | 5          | 1          |            | 11         |
| SWALLOW, N. Rough-winged          | 9.6             | 4          | 2          | 1          | 9          | 11         | 1          | 4          | 2          | 13         | 4          | 56         | 8          |
| MARTIN, Purple                    | 145.1           | 189        | 112        | 118        | 130        | 123        | 130        | 110        | 113        | 113        | 188        | 212        | 203        |
| SWALLOW, Tree                     | 63.1            | 44         | 2          | 35         | 192        | 37         | 4          | 14         | 18         | 72         | 181        | 10         | 148        |
| SWALLOW, Bank                     | 22.6            | 30         | 6          | 7          | 35         | 4          |            | 1          | cw         | 1          | 71         | 5          | 111        |
| SWALLOW, Barn                     | 270.9           | 90         | 142        | 106        | 635        | 272        | 180        | 193        | 173        | 428        | 280        | 473        | 279        |



## NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                      | 12-year average | 2023 Total | 2022 Total | 2021 Total | 2020 Total | 2019 Total | 2018 Total | 2017 Total | 2016 Total | 2015 Total | 2014 Total | 2013 Total | 2012 Total |
|------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| SWALLOW, Cliff               | 748.9           | 352        | 269        | 364        | 907        | 667        | 503        | 1001       | 2054       | 1389       | 611        | 276        | 594        |
| SWALLOW, Cave                | 12.9            | 56         |            | 7          | 8          |            | 8          | 2          |            | 11         |            | 9          | 54         |
| SWALLOW, Cave/Cliff          | 4.7             |            |            |            | 4          | 28         | 5          | 19         |            |            |            |            |            |
| SWALLOW species              | 35.5            | 3          |            | 18         | 13         | 2          |            |            | 15         | 122        |            | 53         | 200        |
| CHICKADEE, Carolina          | 39.6            | 58         | 37         | 28         | 38         | 38         | 10         | 29         | 61         | 66         | 32         | 24         | 54         |
| <b>NUTHATCH species</b>      | 0.1             |            |            |            |            | 1          |            |            |            |            |            |            |            |
| TITMOUSE, Tufted             | 9.6             | 13         | 15         |            | 3          | 4          | 6          | 1          | 11         | 23         | 13         | 14         | 12         |
| WREN, Sedge                  | 0.2             |            |            |            |            |            |            |            |            |            | 2          |            |            |
| WREN, Marsh                  | 15.1            | 12         | 8          | 24         | 8          | 10         | 9          | 26         | 48         | 18         | 13         | 5          |            |
| WREN, Carolina               | 28.9            | 57         | 36         | 26         | 44         | 36         | 12         | 13         | 23         | 21         | 25         | 25         | 29         |
| GNATCATCHER, Blue-gray       | 2.2             | 4          | 9          |            | 2          | 1          |            | 2          | 2          | 1          |            |            | 5          |
| KINGLET, Ruby-crowned        |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| BLUEBIRD, Eastern            | 28.0            | 63         | 29         | 45         | 49         | 20         | 9          | 6          | 10         | 26         | 20         | 9          | 50         |
| VEERY                        | 2.3             | 1          | 1          | 1          | 4          | 3          | 1          | 1          | 3          | cw         | 1          | 3          | 8          |
| THRUSH, Gray-cheeked         | 2.5             | 1          | 1          |            | 2          | 1          | 2          | 3          | 6          | 1          |            | 3          | 10         |
| THRUSH, Swainson's           | 15.7            | 2          | 5          | 4          | 31         | 5          | 4          | 54         | 14         | 4          | 8          | 19         | 38         |
| THRUSH, Wood                 | 0.8             |            |            |            |            | 2          |            | 2          | 1          | 1          |            | 2          | 1          |
| ROBIN, American              | 23.2            | 11         | 3          | 13         | 26         | 15         | 24         | 8          | 56         | 67         | 32         | 11         | 12         |
| CATBIRD, Gray                | 16.8            | 5          | 2          | 9          | 35         | 27         | 5          | 19         | 20         | 16         | 19         | 28         | 16         |
| THRASHER, Brown              | 12.6            | 14         | 9          | 13         | 17         | 8          | 9          | 10         | 9          | 19         | 15         | 16         | 12         |
| <b>MOCKINGBIRD, Tropical</b> | 0.1             |            |            |            |            |            |            |            |            |            |            |            | 1          |
| MOCKINGBIRD, Northern        | 380.0           | 284        | 248        | 255        | 419        | 288        | 351        | 384        | 511        | 589        | 452        | 335        | 444        |
| STARLING, European           | 272.4           | 254        | 239        | 173        | 286        | 197        | 276        | 276        | 404        | 484        | 209        | 170        | 301        |
| WAXWING, Cedar               | 67.3            | 16         |            | 5          | 33         | 253        | 15         | 69         | 7          | 86         | 138        | 176        | 10         |
| FINCH, House                 | 13.3            | 16         | 10         | 12         | 10         | 10         | 10         | 17         | 12         | 11         | 9          | 8          | 34         |
| GOLDFINCH, American          |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| SPARROW, Chipping            |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| SPARROW, Lark                | 0.3             | 1          |            |            | 1          |            |            |            | 1          |            |            |            |            |
| SPARROW, White-crowned       | 0.1             |            |            |            |            |            |            | 1          |            |            |            |            |            |
| SPARROW, White-throated      | 0.2             |            |            |            |            | 2          |            |            |            |            |            |            |            |
| SPARROW, Seaside             | 19.6            | 13         | 14         | 11         | 25         | 16         | 25         | 39         | 25         | 23         | 16         | 19         | 9          |
| SPARROW, Nelson's            | 4.0             |            | 2          | 4          | 2          | 7          | 3          | 6          | 3          | 9          | 4          | 8          |            |
| SPARROW, Savannah            | 16.3            | 8          |            | 5          | 5          | 13         | 18         | 3          | 1          | 5          | 34         | 93         | 11         |
| TOWHEE, Eastern              |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| CHAT, Yellow-breasted        | 1.8             | 1          | 1          |            |            | 11         | 2          |            | 3          |            |            | 1          | 2          |
| BLACKBIRD, Yellow-headed     | 0.3             |            |            |            |            |            |            |            | 4          |            |            |            |            |
| BOBOLINK                     | 2.1             |            |            | 1          |            | 2          |            | 1          | 6          | 1          |            | 14         |            |
| MEADOWLARK, Eastern          | 100.9           | 138        | 122        | 56         | 93         | 111        | 86         | 99         | 83         | 119        | 87         | 76         | 141        |
| MEADOWLARK species           | 0.3             | 2          |            |            |            |            |            |            |            |            | 1          |            |            |
| ORIOLE, Orchard              | 38.2            | 41         | 48         | 32         | 15         | 17         | 27         | 47         | 49         | 39         | 42         | 56         | 45         |
| <b>ORIOLE, Hooded</b>        |                 |            |            |            |            |            |            |            |            |            |            |            |            |
| ORIOLE, Baltimore            | 1.4             | 1          |            |            | 2          |            |            | 5          | cw         |            | 2          | 2          | 5          |
| BLACKBIRD, Red-winged        | 431.0           | 366        | 387        | 413        | 345        | 347        | 347        | 361        | 1115       | 407        | 489        | 339        | 256        |
| COWBIRD, Bronzed             | 2.5             | 1          | 2          | 5          | 2          |            | 2          | 1          | 6          |            | 1          | 8          | 2          |
| COWBIRD, Brown-headed        | 97.5            | 138        | 79         | 79         | 50         | 77         | 51         | 75         | 197        | 86         | 123        | 134        | 81         |
| GRACKLE, Common              | 166.7           | 60         | 83         | 80         | 192        | 69         | 285        | 148        | 180        | 240        | 143        | 212        | 308        |
| GRACKLE, Boat-tailed         | 114.0           | 125        | 141        | 135        | 154        | 168        | 98         | 113        | 68         | 107        | 100        | 88         | 71         |
| GRACKLE, Great-tailed        | 293.9           | 166        | 277        | 470        | 506        | 174        | 455        | 267        | 277        | 194        | 209        | 231        | 301        |
| GRACKLE, Gt./Boat-tailed     | 43.7            | 40         | 81         | 86         | 113        | 99         | 30         | 8          | 2          | 55         |            | 10         |            |
| GRACKLE species              | 23.1            | 17         | 177        | 83         |            |            |            |            |            |            |            |            |            |
| BLACKBIRD species            | 16.7            |            |            | 200        |            |            |            |            |            |            |            |            |            |

## NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                             | 12-year average | 2023 Total  | 2022 Total  | 2021 Total  | 2020 Total   | 2019 Total  | 2018 Total  | 2017 Total   | 2016 Total   | 2015 Total   | 2014 Total   | 2013 Total   | 2012 Total   |
|-------------------------------------|-----------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| OVENBIRD                            | 3.0             |             | 1           | 1           | 5            | 8           | 1           | 1            | 3            | cw           | 3            | 3            | 10           |
| WARBLER, Worm-eating                | 0.2             |             | 1           |             |              |             |             |              |              | cw           |              |              | 1            |
| WATERTHRUSH, Louisiana              | 0.2             |             |             |             |              | 1           |             |              |              |              |              |              | 1            |
| WATERTHRUSH, Northern               | 2.9             | 1           | 2           | 2           | 4            | 3           | 1           | 2            | 2            | 1            | 2            | 6            | 9            |
| WARBLER, Golden-winged              | 0.5             |             |             |             | 2            |             |             | 4            |              |              |              |              |              |
| WARBLER, Blue-winged                | 0.3             |             |             |             | 1            |             |             |              |              |              |              | 2            |              |
| WARBLER, Black-and-white            | 3.4             |             |             |             | 4            | 5           |             | 12           | 2            | 3            | 2            | 8            | 5            |
| WARBLER, Prothonotary               | 8.3             | 5           | 2           | 5           | 7            | 4           | 5           | 9            | 17           | 12           | 12           | 15           | 7            |
| WARBLER, Swainson's                 | 0.1             |             |             |             |              |             |             |              |              |              | 1            |              |              |
| WARBLER, Tennessee                  | 4.8             |             | 1           | 2           | 7            | 4           | 1           | 12           | 2            | 1            | 2            | 14           | 12           |
| WARBLER, Nashville                  | 0.1             |             |             |             |              |             |             | 1            |              |              |              |              |              |
| WARBLER, Mourning                   | 0.1             |             |             |             | 1            |             |             |              |              |              |              |              |              |
| WARBLER, Kentucky                   | 0.3             |             |             |             |              | 1           |             |              |              |              |              | 1            | 1            |
| YELLOWTHROAT, Common                | 32.3            | 42          | 37          | 39          | 40           | 33          | 37          | 51           | 35           | 22           | 13           | 22           | 16           |
| WARBLER, Hooded                     | 2.9             | 3           | 1           | 4           | 4            | 10          |             |              | 6            | 4            |              | 3            |              |
| REDSTART, American                  | 14.4            | 1           | 3           | 4           | 21           | 14          | 2           | 47           | 8            | 6            | 8            | 30           | 29           |
| WARBLER, Cape May                   | 0.3             |             |             |             | 1            |             |             |              |              |              |              | 3            |              |
| WARBLER, Cerulean                   |                 |             |             |             |              |             |             |              |              |              |              |              |              |
| PARULA, Northern                    | 5.7             | 2           |             | 4           | 2            | 5           | 3           | 6            | 12           | 6            | 9            | 8            | 11           |
| WARBLER, Magnolia                   | 11.9            |             | 2           | 5           | 17           | 8           |             | 27           | 10           | 4            | 6            | 31           | 33           |
| WARBLER, Bay-breasted               | 8.9             |             | 1           | 2           | 23           | 8           | 1           | 24           | 2            | 1            | 1            | 17           | 27           |
| WARBLER, Blackburnian               | 6.1             |             |             | 1           | 8            | 2           |             | 15           | 1            | 2            | 3            | 13           | 28           |
| WARBLER, Yellow                     | 9.4             | 3           | 5           | 6           | 13           | 7           | 2           | 4            | 4            | 8            | 5            | 24           | 32           |
| WARBLER, Chestnut-sided             | 4.6             |             |             | 1           | 4            | 6           |             | 12           | cw           | 1            | 2            | 12           | 17           |
| WARBLER, Blackpoll                  | 0.3             |             |             |             | 2            |             |             |              | cw           | 2            |              |              |              |
| <b>WARBLER, Black-throated Blue</b> | 0.1             |             |             |             |              |             |             |              |              |              |              |              | 1            |
| WARBLER, Palm                       | 0.2             |             |             |             |              |             |             |              |              |              | 1            | 1            |              |
| WARBLER, Pine                       | 7.3             | 3           | 15          | 9           | 2            | 10          | 2           | 10           | 15           | 3            | 4            | 4            | 11           |
| WARBLER, Yellow-rumped              | 0.1             | 1           |             |             |              |             |             |              |              |              |              |              |              |
| WARBLER, Yellow-throated            | 1.7             | 1           |             |             |              | 3           | 3           | 1            | 4            | 2            | 1            | 2            | 3            |
| <b>WARBLER, Prairie</b>             |                 |             |             |             |              |             |             |              |              |              |              |              |              |
| WARBLER, Black-throated Green       | 3.8             |             |             |             | 6            | 3           |             | 6            | 4            | 1            | 5            | 12           | 8            |
| WARBLER, Canada                     | 1.9             |             |             |             |              |             |             | 1            |              | cw           |              | 5            | 17           |
| WARBLER, Wilson's                   |                 |             |             |             |              |             |             |              |              |              |              |              |              |
| TANAGER, Summer                     | 5.4             | 4           | 1           | 5           | 11           | 2           | 1           | 5            | 5            | 7            | 4            | 5            | 15           |
| TANAGER, Scarlet                    | 2.6             |             |             | 3           | 6            | 3           | 3           |              | 1            | 2            | 4            | 5            | 4            |
| TANAGER, Western                    | 0.3             |             |             | 1           |              |             |             |              |              |              | 2            |              |              |
| CARDINAL, Northern                  | 154.3           | 112         | 133         | 116         | 170          | 171         | 122         | 105          | 243          | 254          | 109          | 137          | 180          |
| GROSBEAK, Rose-breasted             | 4.3             |             |             | 2           | 3            | 3           | 3           | 9            | cw           | 2            | 5            | 9            | 15           |
| <b>GROSBEAK, Black-headed</b>       |                 |             |             |             |              |             |             |              |              |              |              |              |              |
| GROSBEAK, Blue                      | 6.3             | 1           | 2           | 1           | 3            | 17          | 3           | 12           | 6            | 7            | 4            | 18           | 1            |
| BUNTING, Indigo                     | 13.8            | 4           |             | 7           | 13           | 17          | 3           | 36           | 8            | 13           | 3            | 38           | 24           |
| BUNTING, Painted                    | 9.8             | 2           | 4           | 3           | 8            | 15          | 9           | 8            | 22           | 16           | 8            | 7            | 15           |
| DICKCISSEL                          | 144.7           | 102         | 169         | 139         | 296          | 133         | 169         | 178          | 86           | 103          | 108          | 128          | 125          |
| SPARROW, House                      | 130.7           | 93          | 56          | 51          | 107          | 70          | 155         | 76           | 232          | 244          | 152          | 132          | 200          |
| <b>TOTAL INDIVIDUALS</b>            | 10239.8         | <b>7191</b> | <b>9104</b> | <b>8376</b> | <b>11474</b> | <b>7904</b> | <b>9366</b> | <b>10834</b> | <b>12551</b> | <b>12604</b> | <b>11345</b> | <b>12089</b> | <b>10040</b> |
| <b>TOTAL SPECIES</b>                | 178.8           | <b>168</b>  | <b>158</b>  | <b>169</b>  | <b>186</b>   | <b>182</b>  | <b>162</b>  | <b>192</b>   | <b>176</b>   | <b>180</b>   | <b>186</b>   | <b>197</b>   | <b>189</b>   |

## NORTH AMERICAN SPRING MIGRATION COUNT JEFFERSON COUNTY, TEXAS SUMMARIES 2012-2023

| SPECIES                            | 12-year<br>average | 2023<br>Total | 2022<br>Total | 2021<br>Total | 2020<br>Total | 2019<br>Total | 2018<br>Total | 2017<br>Total | 2016<br>Total | 2015<br>Total | 2014<br>Total | 2013<br>Total | 2012<br>Total |
|------------------------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Number of Observers                | 15.3               | <b>15</b>     | 17            | 15            | 17            | 17            | 14            | 16            | 20            | 17            | 17            | 15            | 18            |
| Number of Parties                  | 8.9                | <b>10</b>     | 9             | 8             | 10            | 10            | 7             | 10            | 12            | 10            | 9             | 9             | 10            |
| Number of Party-Hours - Foot       | 18.9               | <b>21.3</b>   | 16.0          | 16.8          | 20.2          | 11.1          | 8.4           | 19.2          | 25.9          | 24.9          | 23.7          | 16.7          | 22.6          |
| Number of Party-Hours - Car        | 49.8               | <b>42.8</b>   | 50.4          | 54.3          | 41.7          | 55.3          | 56.8          | 65.0          | 53.9          | 46.4          | 48.7          | 39.7          | 42.9          |
| Number of Party-Hours - Stationary | 2.3                | `             | 1.0           | 1.3           |               | 0.9           | 1.0           | 3.0           | 4.7           | 6.5           | 4.0           | 0.5           | 4.5           |
| Total Party-hours                  | 70.5               | <b>65.0</b>   | 66.3          | 72.8          | 62.9          | 67.3          | 60.6          | 87.2          | 83.8          | 77.7          | 76.4          | 56.4          | 70.0          |
| Number of Party-Miles - Foot       | 12.1               | <b>13.9</b>   | 11.3          | 12.9          | 8.6           | 6.0           | 5.6           | 10.9          | 18.2          | 17.8          | 13.8          | 10.1          | 16.2          |
| Number of Party-Miles - Car        | 443.5              | <b>308.2</b>  | 356.4         | 437.9         | 312.8         | 342.2         | 308.1         | 393.0         | 610.3         | 550.3         | 573.2         | 566.5         | 563.7         |
| Total Party-Miles                  | 455.6              | <b>322.1</b>  | 367.7         | 450.9         | 321.4         | 348.2         | 313.7         | 403.9         | 628.5         | 568.0         | 587.0         | 576.6         | 579.9         |



# Nature Explorers

A once-a-month, Selected Saturday Series  
of  
Nature Explorations

@ Tyrrell Park Nature Center

Tyrrell Park Nature Center (TPNC), operated by the Beaumont Convention and Visitors Bureau (CVB), has developed a new

educational offering called “**Nature Explorers**” which will help children develop a sense of wonder and appreciation for the natural world.

Focusing on all parts and topics of nature and the environment, TPNC’s **Nature Explorers** will augment each nature-based science theme with nature-inspired art craft as part of its hands-on activities for that once-a-month Saturday workshop.

Designed as a “come & go” family activity on a monthly Saturday rotation, the **Nature Explorers** at the Tyrrell Park Nature Center will get children enthralled by simple nature and science topics which includes the arts.

While these **Nature’s Explorers** monthly sessions are nature-based science topics for kids with the interactive activities that are designed primarily for children in the five to ten-year-old age range (K-5<sup>th</sup> grades), everyone in the family will enjoy learning something about different parts of nature. Children must be accompanied by an adult.

Each monthly session will highlight a nature-related topic through interactive explorations and art-based activities. During the “come and go” Saturday offerings, kids will explore one component of a nature science concept and then make a simple and fun craft/arts item that they can take home afterwards to enjoy nature in all its various parts, topics, and themes.

The **Nature Explorers** “Come and Go” sessions are free and open to the public and will be held at the Tyrrell Park Nature Center, located at 3930 Babe Zaharias Drive in Beaumont in our newly renovated historic building in the center of Tyrrell Park.

Families can drop in anytime between **10am – 1pm** on the once-a-month Saturday dates listed below and learn interesting facts and create art about that nature’s topic.

- WHAT: **Nature Explorers**
- A Once-a-Month Saturday Science Nature Exploration for families on various nature topics with a related hands-on arts component.
  - Each Saturday Session will be set up with an interactive science & art activity station that is self-paced; designed as “come and go” or drop-in style hands-on program.

WHEN: **10AM – 1PM**  
See schedule with specific dates and topic listed for this monthly Saturday program.

WHO: Families with young children but All are welcome.  
Nature/Arts interactives are geared towards 5-year-old to 10-year-old ages.

WHERE: Tyrrell Park Nature Center

COST: Free.  
Children must be accompanied by an adult.



# 2023 Nature Explorers – Saturday Series

Here are the Nature Explorers Saturdays scheduled for 2023 Calendar Year

| DATE          | TIME       | TOPIC                         | DESCRIPTION  |
|---------------|------------|-------------------------------|--|
| Sat, April 1  | 10am – 1pm | Earth Day                     | Make a colorful Earth Day craft which combines Art, Science and Fun when you discover how much of the earth is ocean in addition to raising awareness on helping the environment.  |
| Sat, May 6    | 10am – 1pm | Flowers & Hats                | Examine the parts of a flower and then using recycled newspaper, kids will make flowers and a spring party hat; just in time for Mother’s Day and Kentucky Derby celebrations.   |
| Sat, June 17  | 10am – 1pm | The Summer Solstice           | Explore some science facts about the sun and the summer solstice; then design your own woven sunshine.   |
| Sat July 1    | 10am – 1pm | Boats and Buoyancy            | Discover the science behind water density by building a boat out of aluminum foil, then test your foil boat for buoyancy. Experiment to find out how many items will your boat hold and still float.   |
| Sat, August 5 | 10am – 1pm | The Water Cycle               | Learn about the water cycle by observing a cloud/rain science demonstration and then build your own mini water cycle environment/biosphere to take home.   |
| Sat, Sept 9   | 10am – 1pm | Bird’s Beaks and Eats         | Investigate birds feeding habits and how the shape of a birds’ beak helps them gather food within their habitat. Experiment to find out how to eat like bird with different beak shapes/tools. Then create and decorate an easy DIY bird feeder. |
| Sat, Oct 7    | 10am – 1pm | Birds: Structure to Sculpture | Identify a bird’s body parts and their functions, then get creative by sculpting a bird out of aluminum foil.  |
| Sat, Nov 4    | 10am – 1pm | Fall Scavenger Hunt           | Gather nature items such as leaves, twigs, then craft a Nature Crown out of your gathered items.   |
| Sat, Dec 2    | 10am – 1pm | Amazing Bears                 | Learn some fun facts about bears – black, brown, grizzly, and polar bears; then craft an origami bear face.  |

The Tyrrell Park Nature Center’s mission is to provide understanding, appreciation, and conservation of nature with a focus on the wetlands through educational and recreational outreach to all ages and all people as well as share the unique history of the park, its historic structures, and its recreational components.

For more information about this program &/or questions about the Tyrrell Park Nature Center, please contact Rebecca Woodland, Nature Center Manager at 409-880-3163 or by email: [rebecca.woodland@beaumonttexas.gov](mailto:rebecca.woodland@beaumonttexas.gov)

