

TEXAS PARKS AND WILDLIFE

An Introduction
to
Birdwatching



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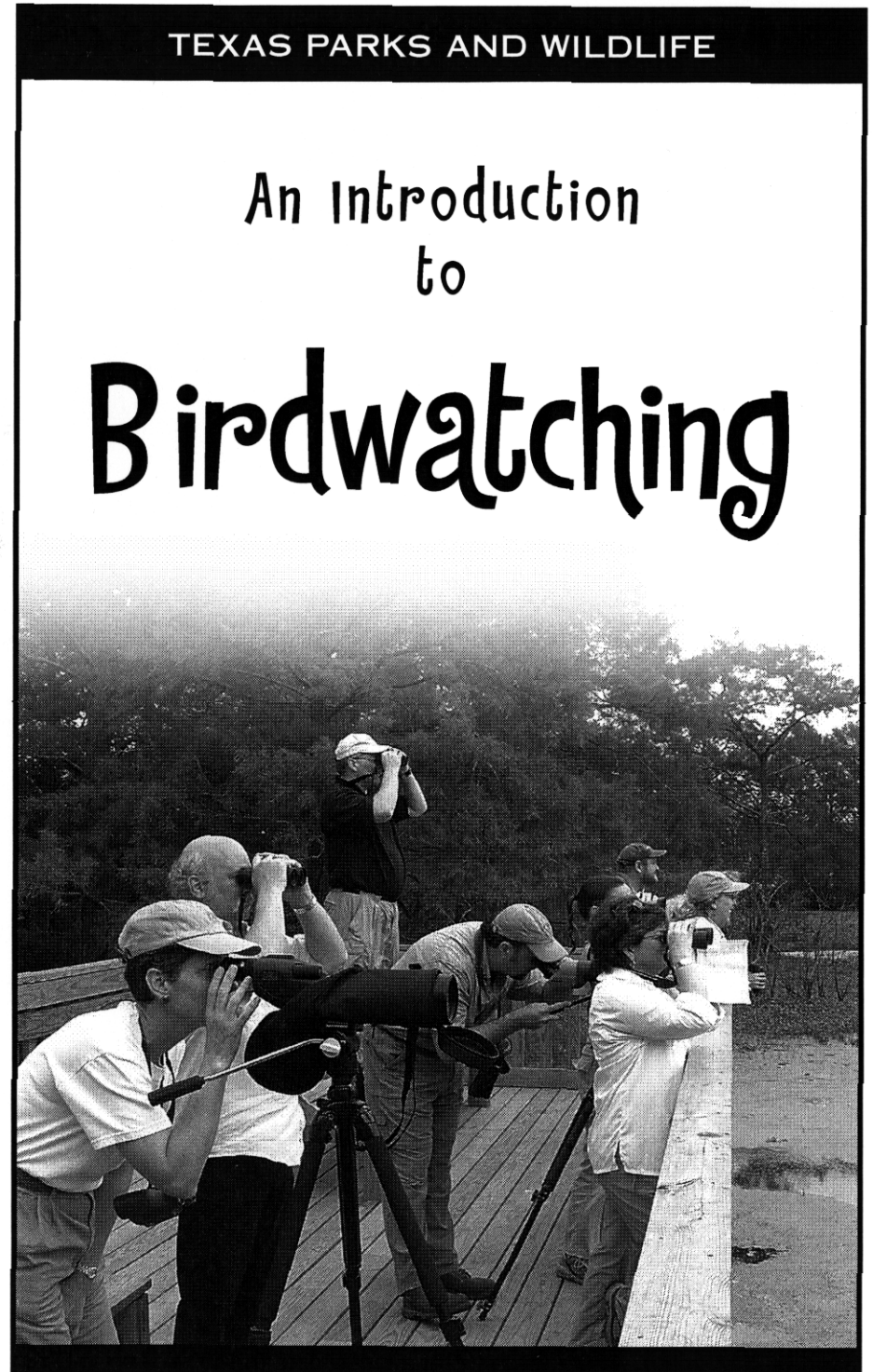
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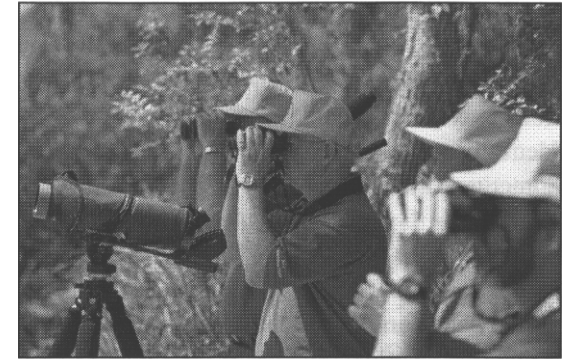
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An Introduction to Birdwatching

Birding is probably one of the most cosmopolitan outdoor activities in existence. By all accounts, the ranks of birders are growing. Formerly called "birdwatchers," birders come from all walks of life, from doctors to lawyers, teachers, policemen, corporate executives, truck drivers, merchants, young children, young marrieds and senior citizens. There are as many varieties of birders as there are birds. They range from intense perfectionists who travel the globe at the drop of a hat to see a species never seen, to the casual weekend hobbyist who enjoys watching the neighborhood birds at a backyard feeder or nearby greenbelt.



What is the appeal? Why do so many people enjoy this activity? While each individual birder may focus on different aspects of the pastime, I think all will agree, birding fulfills many of our basic criteria for what makes for good outdoor recreation. Birds appeal to our sense of aesthetics. Birds are beautiful and their extravagant plumages are dazzling to the eye. Their complex behavior is intriguing and their songs are varied, evocative and very pleasing to the ear.

Birds occur in a wide variety of places and are abroad both night and day. Birdwatching is something you can do while doing other things, working in the backyard, tending the garden, walking or jogging in the park, while at work or from a kitchen window. Birds can brighten up the day and break the monotony of a dull routine.

More than that, you don't have to be rich to go birding. All you really need is a good field guide to the birds of North America and a pair of binoculars to start—some as inexpensive as \$30 or \$40. (Of course, when you get into fine optics and spotting scopes, the price can go up substantially). Flying round the world to New Guinea to get the Raghiana Bird of Paradise on your list will also set you back substantial sums.

An Introduction to Birdwatching

Birding always presents an intellectual challenge because there are lots of different species. And Texas is a particularly birdy state. Some birds, due to their cryptic or furtive nature, present great challenges to the birder. Frequently you need to sort many separate and incomplete clues to come up with the proper identification. The birder doesn't always get a good long look at the bird. Sometimes much of the bird's body is hidden behind foliage or it is flying away. Many times the light is terrible, or the bird continues to disappear from view.

Birding generally appeals to our intellectual curiosity: Birds have amazing and varied behaviors. Some things birds do naturally beg the question why are they doing this. Anting, pecking at their image in a car mirror or a window, preening activities, courtship displays, aggressive displays, hurt-wing displays. You will often be asking yourself "Why *is this bird doing that?*"

Birding definitely satisfies our sporting instinct: Listing, or as the English call it, "ticking," is sort of like hunting, but the quarry, a new bird for the list, does not go into the pot. It is quite a challenge to identify all the birds you see for there are many species to contend with. But there are also lots of clues. Sound, color, shape, size, place of sighting, behavior cues, time of year, time of day. Being the first to properly call a bird can be exhilarating. Identifying a life bird—one you have never seen—by yourself, can also give you a big boost. Adding species to your life list can become a great game you can play. It can be competitive among friends and birding companions, but more commonly you can just compete with yourself. Not to mention the hand-to-eye coordination you develop when training binoculars on a moving object. You have to be fast to get on to the bird and to get your binoculars focused correctly. Flying birds, especially those that fly away from the observer, present special challenges.

Birding, as a sport is non-consumptive and nondestructive to the environment. It results in no negative impact on the environment, and doesn't harm the "target" in any way. Spotting and identifying a bird—even misidentifying a bird, doesn't hurt anybody or anything.

A person can bird while walking alone. It is a wonderful way to get away from the maddening crowd. But, it is also something you can do very well with the rest of the family, with your husband or your children, or with a larger group of like-minded people.

An Introduction to Birdwatching

Going birdwatching is a great way to get out into nature, to keep in touch with the awe and mystery of the natural world. While you are birding you are also getting fresh air, exercise, and learning more about the various areas you visit. Seeing the wildflowers, trees, shrubs, vines, butterflies and other critters that share the birds' environment, helps you to appreciate how all the living parts fit into the whole scheme of things.

Tracking the seasonal movements of birds keeps you in touch with the passing seasons. The annual cycle, the mysteries of spring and autumn migration, birds are pre-eminent harbingers of spring and fall and subtly mark the passage of time.

Birding can contribute positively to your feelings of mastery and self-esteem. These feelings will increase as you get better at it. While identifying birds is very difficult in the beginning, as you practice and improve your observation skills and hand-to-eye coordination skills you will start to gain confidence and pride in your new found ability to take a number of clues and come up with a speedy and correct I.D.



Finally, amateur birdwatchers have contributed and continue to contribute much to the scientific knowledge of birds. Their input and personal observations when hatched by notes, Christmas Counts, Breeding Bird Surveys, etc. help ornithologists and conservationists learn more about birds and the environment we all share and depend on.

HOW TO BECOME A BETTER BIRDER

Good birders are not born—they develop their skills progressively with time and practice. While there are many aids on the market to help beginning birders, such as books, videos, cassettes, CDs, and computer software, there is no substitute for field experience when it comes to mastering the art of birding. The more time you spend out in the field, the better you will become.

Buy a good field guide to the birds. This is no place to economize. There are several excellent publications on the market that are both portable and complete. A practical guide will have the picture of the bird, the verbal description, and the range map all on facing pages, so you don't have to continually flip back and forth from one part of the book to the next. A Texas birder needs a guide that covers bird species occurring throughout the United States. East meets west and north meets south in our great centrally located state. The National Geographic Society's Field Guide to the Birds of North America is a good one, as are the Peterson Guides and the Golden Guide. Many times these quality guides can also be found at your local second hand bookstore.

Learn the "topography" of the bird. Most good field guides have a diagram of a bird in the beginning of the book with the various body parts identified. Study the body of the bird diligently. Learn the terms and definitions of the various parts of the body, especially those of the feather tracts. This is how you will communicate with other birders and understand the descriptions in your field guide. Know which feather groups are visible in various body postures, i.e., when the bird is in flight or perched.

Another essential purchase is a good pair of binoculars. These will help bring the birds closer to you optically so you can better discern a bird's field marks, plumage pattern and color, as well as subtleties of behavior. While good optics can be expensive, the choice of brand is very individual. A good guideline is to buy the best optics you can afford. If you are a beginner, start with a cheaper model and graduate to a more expensive model as your skills increase. Remember, before purchasing, it's important to try them out yourself to see which size, weight, eye relief, field of view, and light-gathering abilities are best for you.

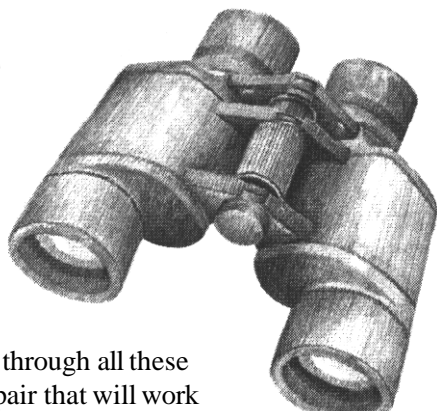
Buy yourself a high quality, compact notebook that fits easily in a vest pocket, hook pouch, or backpack. Carry it with you at all times in the field, along with a waterproof pen. Keep good field notes, recording interesting observations as they occur. Make this a habit. Always record the time of year, time of day, weather conditions, and place (part of the state with a short description of habitat, vegetation type and geology if you know it). These notes will be invaluable for future reference. Don't ever try to commit your observations to memory. The mind simply forgets. Better to take detailed notes on plumage, shape, size, behavior, or any confusing observations. Often what you think is an unimportant detail turns out to be the key element to properly identifying a species. Don't wait to "bird" your field guide when you get home at the end of the day. Write down your observations carefully first, then check the field guide later. Making your own sketches with pertinent comments can also be helpful.

Start a personal bird life list. Keep a Texas bird list, as well. You will be amazed how many birds you can see in the Lone Star State. The Texas Bird Records Committee has recognized 620 species as Texas Birds. Without chasing vagrants or rarities, you could realistically rack up **450** Texas birds within a reasonable amount of time and effort. The list gets even larger as you bird the entire state at different times of year. And all kinds of lists are possible—yard lists, county lists, foreign country lists, you name it. Then, put your lists on computer if you have one. There are many excellent software programs available to help organize your observations whether you use the Macintosh or IBM PC compatible machines.

Become acquainted with the birds of your area. Obtain state checklists, local checklists, State Park, Wildlife Management Area and National Wildlife Refuge bird checklists. Know the seasonal patterns of your area, when the local birds migrate and which species you can expect at which time of year (checklists can be very helpful here). The trick is to reduce the number of possibilities. Dealing with a possible five species is much easier than trying to cope with all 620.

When observing birds feeding in a mixed flock, see if certain individuals act aggressively towards one another. These interactions can be very subtle, so watch carefully. ***Does there appear to be a pecking order among the various species of birds?*** Determine which bird is dominant (titmice dominate chickadees, for instance). ***Does age, body size, feather brightness, or sex affect the dominance hierarchy between birds of the same species or even between birds of different species?***

HOW TO CHOOSE THE BEST BINOCULARS FOR YOUR BUCKS



With all the different brands, styles and prices of binoculars to choose from, it is often hard to decide which pair is best for you. Binoculars can be purchased for as little as \$25 to as much as \$5,000. You should first get a basic understanding of how binoculars work so that you can sift through all these options. You will want to end up with a pair that will work best for your needs and wants, and is the best pair you can afford. In the case of binoculars, price truly does reflect quality—quality in what you will see, and quality in durability. However, you don't have to drain your savings in order to purchase a good pair of binoculars that will satisfy your personal goals.

Binoculars come in many different shapes, sizes and weights. The difference in view may be as much as seeing a general silhouette with simple shades of color, to seeing flecks of differing colors on different parts of the bird's body. The best way to decide this, if you aren't sure, is to try them out before you buy them. Borrowing a pair from a friend or testing them in the store are two ways to accomplish this task. The dealer may even let you field test them, try them out before you buy them.

The following are the basics on how binoculars work and how to apply that to your purchasing decision:

1. Binoculars are made up of an **objective lens** (focuses an upside down image), a set of **prisms** (to turn the image right side up again) and an **eyepiece** (to magnify the image). However, each time light enters a pair of binoculars and passes through each of these glass pieces, some of it is lost, thus promoting a poorer image. Improved technology has produced special glass coatings that reduce the loss of light (in some cases restoring as much as 95% of the lost light). But as you might have guessed, you will pay more for these coatings.

2. Binoculars are described by the magnification power and the size of the objective lens (10x42, for example). The first number indicates how many times closer to you the image is brought, and the second number is the diameter of the objective lens in millimeters.
3. Exit pupils are the beams of light that come out through the eyepieces. It is calculated by dividing the diameter of the objective lens by the magnification power (for example 10x42 binoculars would have an exit pupil of 4.2). The size of the exit pupils work with (or against) your own eyes' pupils. Basically, in low light, larger exit pupils are better because your eyes' pupils will be enlarged, and visa versa. Decide under which conditions you will be using your binoculars most—low or bright light, larger or smaller exit pupils. Also, as we get older, our eyes lose the ability to adapt to lower light more and more. Therefore, smaller exit pupils will work better for older birders as well. And again, top quality binoculars, with their glass coatings and better optics, will facilitate a brighter picture.
4. The field of view is what you will see through your binoculars, represented by an angle or width measurement. If it is difficult for you to find the specific object you are seeing when moving from your naked eye to the binoculars, then you should consider binoculars with a larger field of view. Unfortunately, a larger field of view often means less powerful binoculars. It may also mean a shorter eye relief (the greatest distance between your eye and the eyepiece, in which you can still see the entire field of view). Those with eyeglasses may require a longer eye relief because their eyes may rest farther from the eyepieces.

Armed with the basic knowledge of how binoculars work, the following are some tips on what to do when testing out different pairs:

1. When testing, **use** each pair to focus on the same object, paying special attention to the detail of the image in the center and on the edges.
2. Note how comfortable each pair is to hold and to handle. Try them while hand-holding them **and** while they are supported by a stationary object. When trying them out in the field, make sure you use them for an extended period of time so that you will know how comfortable they will be in the long run.

3. Avoid binoculars that zoom, are fixed-focus, or that focus each eyepiece separately. For birding, these types of binoculars will only hinder you.
4. Remember that binoculars can be a long-term investment, so you should enjoy using them—they should *always* enhance your experience and should *never* be a burden!

THE IMPORTANCE OF SOUND IN IDENTIFYING WILDLIFE

Most folks tend to be visually oriented. We are, like most birds, mainly diurnal (daytime) creatures and depend heavily on our eyesight to identify what we see around us. Interestingly though, relying on your sense of hearing and your ability to recognize sounds can be far more valuable in properly identifying an animal than you might think. **Why is this so?** As wildlife biologists who work long hours in the field have found out by experience, you just do not always have the luxury of seeing the critter that is somewhere nearby. Most animals are shy and reclusive. They may be hiding from predators. They will definitely be hiding from you. They may even be hiding from their prey. A sit-and-wait predator gains a lot by being inconspicuous or well nigh invisible. For this, they wear fur, feathers or scales that blend in subtly with the colors and texture of their environment. They may take cover in dense vegetation or thick foliage. There are big pay-offs for an animal that does not stand out like a sore thumb. Other animals are mainly abroad at night when light levels are exceedingly low to absent. Learning to recognize the sounds of the night—the mating calls of frogs, the distinctive hoots, calls and screeches of various owls and nightjars, the grunts, snarls and thumpings of nocturnal mammals—will give you a huge advantage in figuring out which species is just around the corner, high overhead or hopelessly hidden in the grass. Indeed, animals use these same auditory clues to recognize each other, their enemies, and/or otherwise neutral members of their environment.

Individuals vary in their ability to learn and recognize bird songs, most folks admit that it is easier to remember visual images than bird songs. Sound memory can be very ephemeral—hard to pin down, harder to hold on to over time. Sound learning takes practice, but there are lots of tips, tricks and aids to speeding up the

process. So **how can we learn to be good "sound detectives?"** Follow these guidelines to becoming a good listener:

1. Buy any of several audio guides that are currently on the market that help a person learn the songs and calls of the birds of his or her region. Peterson Field Guides to bird songs of both eastern and western United States offer short examples of bird vocalizations in taxonomic order, keyed to the pages of his field guides. A great source of tips and helpful hints in Learning bird songs is given by Richard Walton and Robert Lawson in their *Birding by Ear* series. Listening to these guides, in short learning sessions, over and over, is a sure way to improve your skills.
2. Many species **of** birds occurring in **Texas** say their name, birds like the killdeer, willet, marbled godwit, long-billed curlew, chachalaca, Northern bobwhite, Eastern phoebe, Eastern pewee, dickcissel, rufous-sided towhee, and Carolina chickadee. Learn which ones they are.
3. If you are out in the field and hear a bird call or song that you do not recognize, listen intently. Then do your best to try to track down the singer. There is no quicker way to learn a new sound than to associate the new song or call with the actual visual image of the performer, especially if you have worked hard to find it. That is associative learning—a powerful tool in learning sounds.
4. **Try** to learn which species of birds have similar songs in your area. For instance, some people have a hard time differentiating between the trill of the pine warbler, the swamp sparrow, the dark-eyed junco and the chipping sparrow. They are all different and easy to recognize when you hear them one after the other. But sometimes, when you hear just one of them, they are harder to pin down without the luxury of comparison. Knowing what habitat you are in helps to eliminate possibilities.
5. Make up your own memory jogging devices to associating the sounds you hear with the animals that make them. Your own personal word associations are often better than another person's. Most importantly, learn the species of your neighborhood well. This helps give strength to the foundation of your "mental sound library." Finally, practice, practice, practice!

WHAT TO LOOK FOR IN THE FIELD

Once you have made your tentative identity of the bird by sound, you can check your accuracy by finding the bird in the field. Field marks—those essential clues to proper identity—will show up somewhere on the body of the bird. Bills, plumage color, crests, wing-bars, eye lines, etc. can be especially diagnostic. Rump patches, white superciliaries (eyebrow feathers), crests, mustaches, gular sacs, decurved bills, long legs, spurs, long or short tails—any of these details can be diagnostic. Behavior is also important. *Is the bird hitching up or down a tree, is it running or hopping, hovering, gliding or soaring, flapping constantly, having undulating flight, etc.?* Habitat counts. *Is the bird wading in the water, is it gleaning insects at the top of a tree, is it flycatching, hover gleaning, is it displaying or doing a courtship display?* Songs and call notes are all species specific. There are lots of clues. All you have to do is put them together and bingo, with practice you will come up with the correct identity of the bird!

Here are some helpful hints:

1. Try to put the bird in a basic family. While we may look at color first, you would never compare a reddish duck with a reddish tanager. So you ask yourself, is it a duck, is it a dove, is it a heron, is it a gull, is it a hawk, is it a sparrow (a little brown jobbie)? This is where you start.
2. What is its size? Compare it to a familiar bird, a crow, a robin, etc. When you have established that the bird is smaller than a crow, but slightly larger than a robin, you have already narrowed down the field considerably. Remember, different weather conditions, distance, and the presence of only one bird (with no opportunity to compare) makes size assessment all the more difficult.
3. What is its shape? Is it slender like a cuckoo or chunky like a robin? What do the wings look like, how long are the legs, what is the shape and length of the bill? Is the tail long or short—is it notched, forked, wedge-shaped, rounded?

4. How does the bird behave? Does it pump its tail, does it wag its tail, does it dart out from a perch sallying for insects, does it feed on the ground, does it hover, or is it a glider? Does it wade in the water, does it teeter or bob while it walks near water? For that matter, does it walk or hop, or both? These are all excellent clues.
5. Observe its flight characteristics. When it flies, is it a straight trajectory, undulating, lurching, soaring? Does it travel in flocks, in pairs or alone?
6. What are the specific field marks? Plain breast, streaked or spotted breast, wing bars, white outer tail feathers, flash pattern, white rumps, white bands on tail, or patches on wings or on rump, stripes over the eye, through the eye, around the eye? Does it wear spectacles? Does it sport a jaunty crest or wear a black mask? Does it have a whisker stripe or a red throat patch?
7. What is its voice like? A long melodic warble, a hoarse caw, does it say its name *Chickadee-dee-dee-dee*, etc.? Does it have a distinctive call note or scold? Does it rustle dead leaves when it forages on the ground, does it drum like a woodpecker or make whistling sounds with its feathers?
8. When is it found? Is it here only in the spring and fall, thus a migrant? Is it here all the time, a permanent resident? Is it here only in the winter or only in the summer? Does it show up unpredictably? Check your field guide maps and regional check list to support your call.
9. Where is it found? This is one of the most important questions. Is it always found near the coast at the beach, in mudflats, in brackish or freshwater marshes, or is it a denizen of inland desert scrub, rocky outcrops, open fields, prairies, deep woods, or bottomlands, along fence-rows and edges of thickets and woods, etc.? Habitat is by far one of the best clues to the identity of your bird. Most birds are dependably habitat specific. You will not find a sanderling foraging along the side of the road in West Texas, or a ladder-backed woodpecker in a spartina grass salt marsh.

BIRDING ETHICS AND NOTES ON CONSERVATION: GOOD RULES FOR ALL BIRD WATCHERS

The American Birding Association and National Audubon Society recommend **the** following guidelines:

1. Take care not to disturb either the birds or their habitat. Walk softly on the land.
2. Stay on established pathways and keep motor vehicles on established roads and parking areas.
3. Avoid harassment; don't disturb birds that are nesting or their nesting areas. Do not handle eggs or young or tarry too long at a working nest.
4. Don't over-use playback tapes or screech owl recordings to call birds in. Don't use these if endangered or threatened birds may be present.
5. Don't trespass on private property. Respect landowner's rights to privacy. Always ask permission first.
6. If looking to find endangered species, follow **all** USFWS refuge and state management area rules and regulations.
7. Avoid "tree-whacking" to arouse cavity dwellers. Undue disturbance may cause the bird to abandon its nest and young or even kill young inadvertently in an attempt to escape.
8. Divide larger groups of people into smaller, more manageable numbers. Small groups cause less disturbance. When possible, carpool.
9. Leave no litter or trash. Pack your garbage out of wilderness areas. Ingested items can kill.
10. Support local and national bird conservation organizations.

11. Support the Texas Parks and Wildlife Department Nongame and Threatened and Endangered Species fund. All moneys donated go towards management of nongame birds, wildlife and their habitat.
12. Support the National Audubon Society and Texas Nature Conservancy, two organizations that also work tirelessly to preserve, purchase and restore avian habitats.

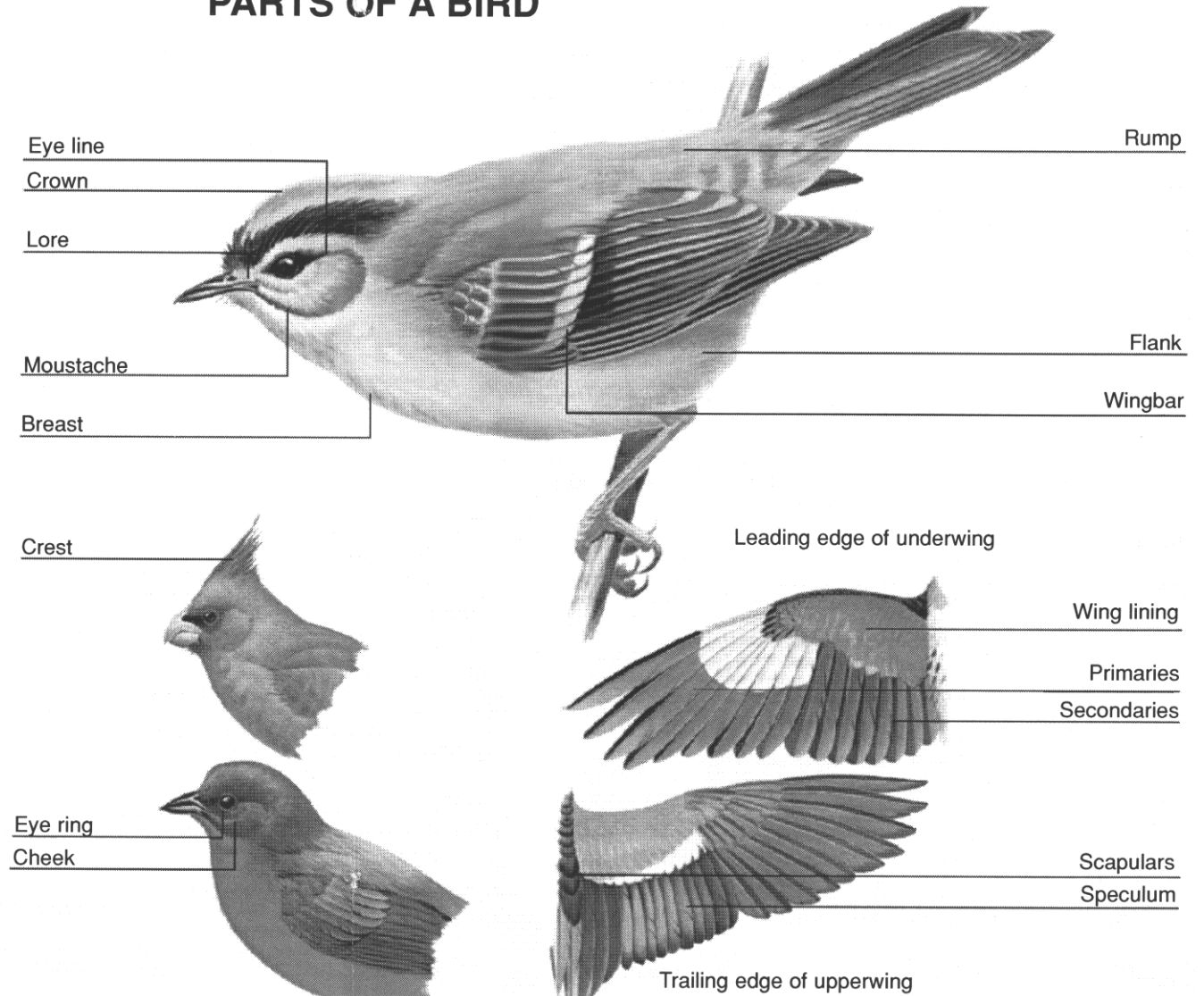
Keep in mind we are all sharing this planet with these beautiful avian creatures. It is important to remember that the more habitat we irreversibly modify and destroy, the fewer birds there will be for us and our children to enjoy. We are temporary stewards of this land. We must safeguard it and hopefully pass it on in better condition than we found it. Great-grandchildren unborn may wish to continue the study of ornithology or the science of birds. Let's do our best to pass our natural heritage rich in bird species on to them!



TOPOGRAPHY OF THE BIRD

While all birds naturally don't look exactly like this Golden-crowned Kinglet, this brochure does illustrate the various parts of the body and feather areas that most birds share. It's a good idea to look this picture over and get yourself familiar with the body of the bird and what specific terms birdwatchers use to talk about the various parts of the bird. In this way, when two or more people are looking at a bird, they will all know to what particular part of the bird they are referring. Of course almost as important as speaking correctly about the various parts of the bird, it is essential that we are able to point out to others where the bird is located. Is it flying above us at 12:00 o'clock, is it singing at the top of that liveoak tree near the fence, is it skulking on the ground to the left near the edge of the water? The better you are able to describe where the bird is in relation to the landscape and other birders, the faster the I.D. will be clinched.

PARTS OF A BIRD



Original art by John P. Oneill

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BIBLIOGRAPHY OF SOURCES ON BIRDING
AND BIRD IDENTIFICATION IN TEXAS

General References

Many excellent sources on bird identification may be ordered from the American Birding Association at **800-634-7736**.

American Bird Conservancy. **1997**. *All the Birds of North America*. New York Roundtable Press.

American Birding Association and U.S. Forest Service. **1994**. *Birdfinding in Forty National Forests and Grasslands*. (Can be ordered through the ABA at **800-634-7736**.)

American Ornithologists' Union. **1983**. *Checklist of North American Birds*. 6th Edition. Lawrence, Kansas: Allen Press.

Bryan, K., T. Gallucci, G. Lasley, M. Lockwood and D.H. Riskind. **1999**. *A Checklist of Texas Birds*. 5th edition. Texas Parks and Wildlife PWD BK P4000-000M (**10/99**).

Bull, J. and J. Farrand, Jr. **1977**. *The Audubon Society Field Guide to North American Birds, Eastern Region*. New York Alfred A. Knopf, Inc.

Bull, J. and J. Farrand, Jr. **1980**. *The Audubon Society Field Guide to North American Birds, Western Region*. New York Alfred A. Knopf, Inc.

Clements, J. **2000**. *A World Checklist of Birds*. **5th** Edition. (Can be ordered through the ABA at **800-634-7736**.)

Dunn, J.L. and K. Garrett. **1997**. *A Field Guide to Warblers of North America*. Boston: Houghton Mifflin Company.

Ehrlich, P.R., D.S. Dobkin and D. Wheye. **1988**. *The Birder's Handbook: A Field Guide to the Natural History of North American Birds*. New York Simon

and Schuster, Inc. (This wonderfully compact paperback volume is a wealth of information on most of the birds you will see in the U.S. It contains treatments of their natural history and has short essays dealing with a fascinating variety of topics related to the species treated.)

Farrand, J. Jr., Editor. **1983**. *The Audubon Society Master Guide to Birding*. New York: Alfred A. Knopf, Inc. (This three volume set may be awkward in the field, but wellwritten species accounts by **61** different experts, excellent range maps and photo illustrations make this a good addition to any library.)

Gill, F. **1995**. *Ornithology*. 2nd edition. Philadelphia, Penn.: The National Academy of Sciences. (Excellent general textbook **on** Bird Biology.)

Graham, Gary. **1992**. *Texas Wildlife Viewing Guide*. Texas Parks and Wildlife Press. (Can be ordered through the ABA at **800-634-7736**.)

Griggs, J. **1997**. *AV Birds of North America*. New York HarperCollins Publishers, Inc.

Harrison, H. **1975**. *A Field Guide to Birds' Nests: United States East of the Mississippi River*. New York Alfred A. Knopf, Inc.

Harrison, H. **1979**. *A Field Guide to Western Birds' Nests*. New York Alfred A. Knopf, Inc.

Harrison, K. and H. Harrison. **1993**. *A Beginner's Guide to Birdwatching*. New York: National Audubon Society.

Kutac, E.A. **1982**. *Birder's Guide to Texas*. Austin: Lone Star Books.

Mearns, B. and R. Mearns. **1988**. *Biographies of Birdwatchers: The Lives of Those Commemorated in Western Palearctic Birds*. London: Academic Press.

Mearns, B. and R. Mearns. **1992**. *Audubon to Xantus*. London: Academic Press.

National Geographic Society. **1999**. *Field Guide to Birds of North America*. Third edition, Washington, D.C.: National Geographic Society.

An Introduction to Birdwatching

- Oberholser, H.C. and E.B. Kincaid, Jr. 1974. *The Bird Life of Texas*. Austin, Texas: University of Texas Press. (A two-volume, beautifully-written classic no longer widely available, but loaded with information on the birds of Texas.)
- Peterson, R.T. 1963. *A Field Guide to the Birds of Texas and Adjacent States*. Boston, Mass.: Houghton Mifflin Co.
- Peterson, R.T. 1991. *A Field Guide to the Western Birds*. Second edition. Boston, Mass.: Houghton Mifflin Co.
- Peterson, R.T. 1980. *A Field Guide to the Birds East of the Rockies*. Boston, Mass.: Houghton Mifflin Co.
- Peterson, R.T. 1986. *Peterson First Guide: Birds*. (Can be ordered through the ABA at 800-634-7736.)
- Pettingill, O.S., Jr. 1988. *A Guide to Bird Finding West of the Mississippi*. Second edition. New York: Oxford University Press.
- Pettingill, O.S., Jr. 1970. *Ornithology in Laboratory and Field*. Minneapolis, Minn.: Burgess Publishing Company.
- Porter, Michael K. 1993. "Choosing Binoculars: Here's Up-to-the-Minute Information on How to Decide Which Model is Best for You." *Bird Watcher's Digest* July/ August: 72-80.
- Proctor, N.S., and P.J. Lynch, 1993. *Manual of Ornithology: Avian Structure and Function*. New Haven: Yale University Press.
- Rappole, J.H. & G.W. Blacklock. 1994. *Birds of Texas: A Field Guide*. College Station: Texas A & M University.
- Reader's Digest. 1990. *Book of North American Birds*. New York: Reader's Digest Publishing, Inc.
- Riskind, D. and M. Lockwood. 1997. *Birding Texas*. Natural Resource Program, Texas Parks and Wildlife Department. Austin, Texas.

An Introduction to Birdwatching

- Robbins, C., et al. 1983. *Birds of North America: A Guide to Field Identification*. Revised edition. New York: Golden Press.
- Shackelford, C.E. & M.W. Lockwood. 2000. *The Birds of Texas: Occurrence and Seasonal Movements*. Texas Parks and Wildlife PWD BK W7000642 (8/00). Booklet 28 pp
- Shackelford, C.E., E.R. Rozenhurg, W.C. Hunter and M.W. Lockwood. 1999. *Migration and the Migratory Birds of Texas: Who They Are and Where They Are Going*. Texas Parks and Wildlife PWD BK W7000-511 (2/00). Booklet 34 pp
- Sibley, D.A. 2000. *National Audubon Society The Sibley Guide to Birds*. Alfred A. Knopf. New York.
- Stokes, D.W. and L.Q. Stokes. 1996. *Stokes Field Guide to Birds: Eastern Region*. (Can be ordered through the ABA at 800-634-7736.)
- Stokes, D.W. and L.Q. Stokes. 1996. *Stokes Field Guide to Birds: Western Region*. (Can be ordered through the ABA at 800-634-7736.)
- Thompson, Bill. 1997. *Bird Watching for Dummies*. Foster City, CA: IDG Books Worldwide.
- Terres, J.K. 1980. *The Audubon Society Encyclopedia of North American Birds*. New York: Alfred A. Knopf.
- Texas Ornithological Society. 1995. *Checklist of the Birds of Texas*. Third Edition. Printed by Capital Printing, Inc. Austin, Texas, USA. (Annotated checklist of the 600 some species accepted by the T.O.S. Records Committee, giving status and range with a notation of the documentary evidence.)
- Tveten, John L. 1993. *The Birds of Texas*. Fredericksburg, TX: Shearer Publishing.
- Udvardy, M.D.F. 1977. *The Audubon Society Field Guide to North American Birds: Western Region*. New York: Alfred A. Knopf, Inc.

US. Fish and Wildlife Service. 1979. *Unique Wildlife Ecosystem of Texas*. US. Department of the Interior, U.S. Fish and Wildlife Service.

Welty, J.C. and L.F. Baptista. 1988. *The Life of Birds*. 4th edition. Philadelphia, Penn.: Saunders, Inc.

Central Texas, North Central Texas and Edwards Plateau

Kutac, E. and S.C. Caran. 1976. *A Bird Finding and Naturalist's Guide for the Austin, Texas Area*. Austin, Texas: The Oasis Press.

Kutac, E. and S.C. Caran. 1993. *Birds & Other Wildlife of South Central Texas*. Austin: University of Texas Press.

Lockwood, M.W. 2001. *Birds of the Edwards Plateau: a field checklist*. Natural Resources Program, Texas Parks and Wildlife PWD BK W4000-667 (2/01). Booklet 12 pp

Lockwood, M.W. 2001. *Birds of the Texas Hill Country*. U.T. Press. Austin.

Osborne, J. 1991. "Birder's Guide to Concan, Texas." (This is one of the most productive areas on the Edwards Plateau.)

Pulich, W.M. 1979. "Birds of North Tarrant County." Second edition. (Available from the American Birding Association: P.O. Box 6599, Colorado Springs, CO.80934; Telephone: 1-800-634-7736)

Pulich, W.M. 1988. *The Birds of North Central Texas*. College Station: Texas A & M University Press.

Travis Audubon Society. *Birds of Austin, Texas, Region*. 8th Edition. (Can be ordered through the ABA at 800.634.7736)

East Texas and the Gulf Coast

Corpus Christi Area Convention and Visitors Bureau. "Birding the Corpus Christi Area." (Free). I-800-678-OCEAN.

Dauphin, D.T., A.N. Pettingill, and E.R. Rozenburg. 1989. *Birder's Checklist, Upper Texas Coast*. (Bar graphs show monthly Occurrence and abundance; covers Brazoria, Galveston, Chambers, Jefferson, Harris, and Fort Bend counties.)

Dyes, J.C. 1993. *Nesting Birds of the Coastal Islands. A Naturalist's Year on Galveston Bay*. Austin, Texas: University of Texas Press.

Elwonger, M. 1995. *Finding Birds on the Central Texas Coast*. (Available for \$12.95 from American Birding Association.)

Holt, H.R. 1993. *A Birder's Guide to the Texas Coast*. Sacramento: L & P Photography. (Available from the American Birding Association.)

McAlister, W.H. and M.K. McAlister. 1993. *A Naturalist's Guide to Matagorda Island*. Austin, Texas: University of Texas Press.

National Park Service. 1980. "Checklist of the Birds: Padre Island National Seashore." (512) 949-8068.

National Park Service. 1981. "Big Thicket National Preserve Checklist of the Birds." (Free) (409) 2462337.

Rappole, J.H. and G.W. Blalock. 1985. *Birds of the Texas Coastal Bend, Abundance and Distribution*. College Station: Texas A & M University Press.

Robison, B.D. and J.L. Tveten. 1990. *Birds of Houston*. Houston: Rice University Press.

Rockport-Fulton Chamber of Commerce and Auduhon Outdoor Club of Corpus Christi. 1989. "Birders Guide to Rockport-Fulton." (Provides much of the information you need to bird this productive coastal area.)

Texas Parks and Wildlife Department/Texas Department of Transportation. 1996. *The Great Texas Coastal Birding Trail*.

Tourist Development Council of the Rockport/Fulton Area Chamber of Commerce. "Birders Guide to Rockport/Fulton." (\$1.50) 1-800-242-0071.

Wolf, D.E., C.E. Shackelford, G.G. Luneau and C.D. Fisher. 2001. *Birds of the Pineywoods of Eastern Texas: A Field Checklist*. Texas Parks and Wildlife PWD BK W7000603 (1/01). 12 pp

South Texas

Brownsville Convention and Visitors Bureau. "Birder's Guide to Brownsville." (\$2.95) 1-800-626-2639.

Harlingen Chamber of Commerce. "Birding in the Harlingen Area: Hooters, Hawks and Hummingbirds" (Free). (210) 423-5440.

Kutac, E.A. and S.C. Caran. 1993. *Birds and Other Wildlife of South Central Texas*. Austin, Texas: University of Texas Press.

Holt, H.R. 1992. *A Birder's Guide to the Rio Grande Valley of Texas*. Sacramento: L & P Photography. (Available from the American Birding Association.)

West Texas and High Plains

National Park Service. 1980. "Bird Checklist: Big Bend National Park." (915) 477-2236.

National Park Service. 1984. "Checklist of Birds: Guadalupe Mountains National Park." (Free) (915) 828-3251.

Paton, J.N. and B.R. Zimmer. 1996. *Birds and Birdfinding in the El Paso Area*. (Available from American Birding Association for \$13.25.)

Wauer, R. H. 1985. *Birds of Big Bend National Park and Vicinity*. Austin, Texas: Texas Monthly Press, Inc.

Wauer, R.H. 1996. *A Field Guide to Birds of the Big Bend*. 2nd Edition. Austin, Texas: Gulf Publishing Company.

Wauer, R. H. 1980. *Naturalist's Big Bend*. John Muir Publications.

Wauer, R.H. 1994. *The Visitors Guide to the Birds of the Central National Parks*. John Muir Publications.

Sound Recordings

Borror, J. and Gunn W.H. 1985. *Songs of the Warblers of North America*. (Can be ordered through the ABA at 800-634-7736)

Cornell/Interactive. 1992. *A Field Guide to Western Bird Songs*. (Can be ordered through the ABA at 800-634-7736)

Cornell Laboratory of Ornithology. 1985. *Guide to Bird Sounds*. (Can be ordered through the ABA at 800-634-7736)

Keller, G. 1988. *Bird Songs of Southeastern Arizona and Southern Texas*. (Can be ordered through the ABA at 800-634-7736)

Lawson, R.W. and R.K. Walton. 1990. *Birding by Ear: Guide to Bird Song Identification*. (Can be ordered through the ABA at 800-634-7736)

Lawson, R.W. and R.K. Walton. 1990. *Birding by Ear: Western*. (Can be ordered through the ABA at 800-634-7736)

Peterson, R.T. 1963. *A Field Guide to Bird Songs of Eastern and Central North America*. 4th edition. Available on phonograph records keyed by page number to *A Field Guide to the Birds East of the Rockies*, also available on cassettes). Boston, Mass.: Houghton Mifflin Co.

Peterson, R.T. 1963. A *Field Guide to Western Bird Songs*. Available on phonograph records keyed by page number to A Field Guide to the Western Birds. Boston, Mass.: Houghton Mifflin Co.

Computer Software

Ideaform Inc. 1995. **Birdbrain 3.0 Listing Software (for Mac)**. (Available through the ABA. To order call 800-634-7736.)

Micro Wizard. 1996. **Bird Song Master, ver. 2.2 (Mac or PC)**. (Available through the ABA. To order call 800-634-7736.)

Perceptive System. 1996. **AviSys Song (for PC)**. (Available through the ABA. To order call 800-634-7736.)

Perceptive Systems. 1996. **AvSys 4.0 for Windows (for PC)**. (Available through the ABA. To order call 800-634-7736.)

SantaBarbaraSoftwareSystems. 1995. **BirdBaseforWindows(forPC)**. (Available through the ABA. To order call 800-634-7736.)

Santa Barbara Software Systems. 1995. **World Birdbase for Windows (for PC)**. (Available through the ABA. To order call 800-634-7736.)

Thayer Birding Software. 1995. **Birder's Diary 1.6 Delux Edition (for PC)**. (Available through the ABA. To order call 800-634-7736.)

CD-Roms

Houghton Mifflin Interactive. 1995. **Peterson Multimedia Guides: North American Birds**. (Available through the ABA. To order call 800.634.7736)

Thayer Birding Software. 1994. **Birds of North America for PC**. (Available through the ABA. To order call 800-634.7736)

Videos

Godfrey, M. and K. Kaufman. 1991. *Owls Up Close*. (Can be ordered through the ABA at 800-634-7736.)

Herriott, K. and D. 1991. *Birding Hotspots in Texas*. (Can be ordered through the ABA at 800-634-7736.)

Natural Science Network. 1992. *Hawks Up Close*. (Can be ordered through the ABA at 800-634-7736.)

Natural Science Network. 1988. *Hummingbirds Up Close*. (Can be ordered through the ABA at 800-634-7736.)

Porter, D. 1994. *How to Start Bird Watching*. (Available through the ABA. To order call 800-634-7736.)

Small, A. 1985. *Techniques of Birding*. (Available through the ABA. To order call 800-634-7736.)

BIRD CHECKLISTS FOR
STATE PARKS AND WILDLIFE MANAGEMENT AREAS

Birds of Abilene State Park
Birds of Balmorhea State Park
Birds of Buescher and Bastrop State Park
Birds of Bentsen-Rio Grande Valley State Park
Birds of Big Spring State Park
Birds of Black Gap Wildlife Management Area
Birds of Brazos Bend State Park
Birds of Caprock Canyon State Park
Birds of Cedar Hill State Park
Birds of Choke Canyon State Park
Birds of Colorado Bend State Park
Birds of Copper Breaks State Park
Birds of Davis Mountains State Park
Birds of Devils River State Natural Area
Birds of Del Rio and vicinity
Birds of Dinosaur Valley State Park
Birds of Enchanted Rock State Natural Area
Birds of Falcon State Park
Birds of Fort Leaton State Historic Site
Birds of Fort Parker State Park
Birds of Franklin Mountains State Park
Birds of Galveston Island State Park
Birds of Garner State Park
Birds of Goliad State Park
Birds of Goose Island State Park
Birds of Guadalupe River State Park/Honey Creek State Natural Area
Birds of Hueco Tanks State Historic Site
Birds of Huntsville State Park
Birds of Inks Lake State Park
Birds of Kerr Wildlife Management Area
Birds of Kerrville/Shreiner State Park
Birds of Lake Arrowhead State Park

Birds of Lake Brownwood State Park
Birds of Lake Corpus Christi State Park
Birds of Lake Livingston State Park
Birds of Lake Mineral Wells State Park
Birds of Lake Somerville State Park
Birds of Lake Texana State Park
Birds of Longhorn Cavern State Park
Birds of Lost Maples State Natural Area
Birds of Lyndon B. Johnson State Historical Park
Birds of the Marathon Basin
Birds of Martin Dies, Jr., State Park
Birds of Matagorda Island State Park
Birds of McKinney Falls State Park
Birds of Meridian State Park
Birds of Monahans Sandhills State Park
Birds of Mustang Island State Park
Birds of Palmetto State Park
Birds of Palo Duro Canyon State Park
Birds of Pedernales Falls State Park
Birds of Resaca de la Palma State Park Site
Birds of San Jacinto Battleground State Historic Site
Birds of Sea Rim State Park
Birds of Seminole Canyon State Park and Historic Site
Birds of South Llano River State Park
Birds of Sheldon Lake State Park
Birds of Tyler State Park

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