

Would you like to know more about birds? Perhaps these hints on how to study birds will help you.

What equipment do we need? Field glasses or binoculars are fun to own and use, but you can have fun without them. A good field guide or book is very important. Such a book will have colored pictures of nearly every bird. It will tell you what markings or behavior to look for. Roger Tory Peterson's "Field Guide to the Birds" Richard Pough's "The Audubon Bird Guide", and the Golden Nature Guide "Birds", by Dr. Zim and Dr. Gabrielson are excellent guides.

A small pocket mirror is a handy gadget to have on a bird walk. Reflected sunlight can be used as a pointer to locate birds for a group of students. Light from the mirror will show color of feathers more clearly. Of course, the sudden flash of light may frighten the bird you are watching.

What shall we wear? Dull-colored clothing is best. Birds may be frightened by flashy colors.

Where shall we look for birds? Birds are found where there is food and shelter. Brushy fencerows, along marsh edges, and along wooded streams are good places to look. A city park that has both trees and shrubs is often a choice spot, especially in spring and fall. Perhaps someone in your neighborhood has a winter bird feeder. Winter birds will gather there.

When shall we go? Early morning is best in spring and summer. Late afternoon is best in the fall. Anytime of the day is good in wintertime. Those are "meal times" for most birds. They sing and move about more at those times. A windless day is best. Moving leaves and branches hide bird movements. Wind noise drowns out bird songs.

Let's pretend that the pupils in your schoolroom are ready to take a bird walk. The quickest way to learn to recognize birds is to go with someone who already knows them. If there is someone in your neighborhood who knows birds you should ask them to go with you and first few times. A boy scout who has earned a merit badge in bird study should be able to recognize most common birds. Perhaps you can find someone whose hobby is bird feeding or bird study. These people will usually be glad to help you and they can save you much time and many mistakes. I will be your leader this time. Next time your teacher or someone else can lead you.

It is best if there are only 10 or 12 or even less in one group. A larger number is all right if we do not move around too much or make too much noise. We have agreed that any one who spoils our fun by loud talking, horseplay, or unnecessary movements must leave the group and return to the schoolroom.

We have already talked about why we're studying birds. We have learned that birds are valuable to man and other living things. We want to be able to recognize them. We want to learn more about them and their habits. Then we can fit birds into our plans for better use of all our natural resources.

As we draw near to likely-looking spots (where birds can find shelter, food and water) let's stand very quietly and listen for at least theee or four minutes. Howmany different bird sounds can you hear? Start a bird list with all those you recognize, such as the crow, mourning dove, English sparrow, blue jay, etc.

A bird list is an important part of your days study. Your list will be sort of a score card to measure your success. Probably you will hear four or five songs that you do not recognize. Let's walk slowly toward the nearest of these mysterious sounds. If we can, we'll circle slowly to get the sun behind us. This makes it easier for us to see the bird and harder for the bird to see us. Slow and easy does it! The group stays close together, no one talks, and every movement is slow. If the bird stops singing or gets restless, we stop. There he is!

This is close enough for now. If the bird is singing it is probably a male. Does anyone know him? Let's compare his size with that of some bird we know well. What color is he? Can you see any unusual marks? Is the tail and bill long or short? Someone make some notes on his appearance and song. Someone else look through the field guide for his picture. Let's not try to move closer until we know his name or need a better look. Our next movement may mean our last look at this fellow.

One at a time, and softly, let's take turns trying to imitate his song or call. If he hears a fairly good imitation, he may come toward us. His jealousy of other male birds of his kind may overcome his fear of us. Do not move if you want him to come close to you.

If it is nesting season, "squeaking" may bring birds closer to us. Make a squealing sound by kissing the back of your hand or whistling through your teeth. Only one at a time now, and softly. The noise should sound like a baby bird in trouble.

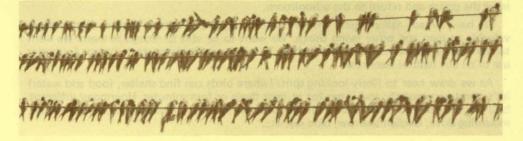
If we cannot find our mystery bird's picture and description in our field guide in a few minutes, we'll try to get a little closer and get a better look. Move very slowly and quietly. Stand still when he stops singing. Look, listen, and use your field guide - - these are the secrets of learning to know birds.

If we still don't know his name, let's try to decide to which family or group our mystery bird belongs. Then we can use the index of our field guide to find names and pictures of birds in that group.

Here is a simple table which may give you some hints as to a strange bird's family. The table is not sure-fire. For example, most birds look "dark above and light below", but not all birds perch quietly. Flycatchers usually do, but not always. A bird may fit the description for several families and not belong to any of them. Maybe you think our table isn't much good. Why doesn't your class work out a better one?

Habits and behavior are good clues to a bird's family. Warblers usually will be seen looking for insects on branches and under leaves. Swallows are insect eaters, too, but they usually catch their food as they swoop through the air. So do flycatchers. Creepers and nuthatches hunt insects as they climb up and down trunks and main branches. Finches, sparrows, and grosbeaks are seed eaters. We'll usually find them looking for seeds on the ground, on weeds, and on trees and shrubs. As you study birds more, their habits and manners often tell you their name, even before you can see their color.

Many families of birds have been left out of our table. Only commonest families of roadside and woods birds are listed.



BIBD FAMILY DESCRIPTIONS

SIZE	DESCRIPTION	FAMILY
Very small Smaller than a sparrow	Tiny, greenish gray above, light below Yellow, black or brown markings, slender bill.	Kinglets Warblers
Smaller than a sparrow Smaller than a sparrow	Restless, brown. Tail sticks up. Loud singers. Brown. Climbs up tree trunks. Slender curved bill.	Wrens Creeper
Smaller than a sparrow	Dark above. Comes down tree trunks head- first. Bill long, slants upwards.	Nuthatches
Sparrow size	Gray, long tails, seldom still, may hang upside down.	Chickadees & Titmice
Sparrow size	Sparrow-like. Short, stout bill.	Sparrows (Many kinds)
Sparrow size	Dark above, light below, graceful flight.	Swallows
Robin and smaller	Gray or black above, light below. Sits quietly on perch (often dead branches).	Flycatchers
Robin and smaller	Short, stout bill. Usually bright colored	Finches or or grosbeaks
Robin size	Long tails, good singers.	Mockers (brown thrashers, catbird mocking bird).
Robin size	Spotted breasts. Found in dense cover (usually).	Thrushes

CHECK LIST OF IOWA BIRDS

The following is a list of birds that to date have been recorded for the State of Iowa. All are represented by specimens. It is a generally accepted rule that no species of birds shall be admitted to a state list unless a specimen has been taken and is either preserved in some collection or has been critically examined by a competent ornithologist.

The common name given is according to the nomenclature form the fifth edition of the American Ornithologists' Union check list and supplements to this check list that have been made in recent years.

On this list the status is simply the over-all picture of the species in this state. Some listed as migrant may remain throughout the year and some listed as migrant may also nest in the state in small numbers. In this paper the status is meant only to give the over-all concept of the species in this area.

The purpose of this paper is to make available a complete list of the birds of Iowa and to give the relative abundance of each species.

Legend for Bird Status

Accidental	RPR Rare permanent resident
	RSR Rare summer resident
	RSV Rare summer visitor
Rare	RWM Rare winter migrant
Common migrant	RWV Rare winter visitor
Introduced Species	USR Uncommon summer resident
Probably extinct	UWV Uncommon winter visitor
Permanent resident	AMSR . Abundant migrant and summer
Rare migrant	resident
	CMSR Common migrant and summer
Uncommon migrant	resident
Very rare	ISCR Introduced species - common
	resident
. Abundant permanent resident	RMSR Rare migrant and summer
. Abundant permanent resident	resident
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. Common permanent resident	UMSR Uncommon migrant and summer
Common summer resident	resident
Common winter resident	AMCWR Abundant migrant and common
Common winter visitor	winter resident
Uncommon resident	WMRPR Winter migrant and rare
	permanent resident

IOWA BIRDS

Common Names		Ctatur
Common Names Common Loon		DM
Lesser Loon		
Artic Loon		
Red-throated Loon		
Red-necked Grebe		RM
Horned Grebe		UM
Eared Grebe		UMSR
Western Grebe		
Pied-billed Grebe		. CSR
White Pelican		CM
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Double-crested Cormorant		
Anhinga		A
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Great Blue Heron	1370	CMSR
Ward's Heron	deni	R
Eastern Green Heron	Ber	CMSR
Little Blue Heron		
Cattle Egret	• •	· · · · ·
Common Egret		
Snowy Egret	• •	. HOV
Black-crowned Night Heron .		CMSR
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American Bittern		CMSR
Wood Ibis		RV

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Common Names	Status
Glossy Ibis	RV
White-faced Ibis	RV
Mute Swan	A
Whistling Swan	UM
Trumpeter Swan	A
Canada Goose	CM
Lesser Canada Goose	
Huthin's Goose	
White-fronted Goose	
Lesser Snow Goose	
Ross Goose	
Blue Goose	
Mallard	. CMSR
Black Duck	CM
Black Duck	CM
Green-winged Teal	CM
Blue-winged Teal	
Cinnamon Teal	
European Widgeon	
American Widgeon	
Shoveler	
Shoveler	. CMSR
Redhead	. CMSR
Ring-necked Duck	CM
Canvasback	

Common Names Greater Scaup	Status
Greater Scaup	RM
Lesser Scaup	CM
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Oldsquaw	RM
Oldsquaw	CM
Western Harlequin Duck	Civi
Common Fider	
Common Eider	· · · · A
King Eider	· · · · A
White-winged Scoter	
Surf Scoter	UM
Common Scoter	KM
Ruddy Duck	CMSR
Hooded Merganser	CM
Common Merganser	CM
Red-breasted Merganser	UM
Turkey Vulture	. CSR
Turkey Vulture	A
Swallow-tailed Kite	VR
Mississippi Kite	VR
Swallow-tailed Kite	. UM
Sharp-shinned Hawk	CM
Cooper's Hawk	CMSR
Cooper's Hawk	CPR
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Common NamesStatusChukarISWhooping CraneALittle Brown CraneRMSandhill CraneRMKing RailUMVirginia RailCMSRSora RailCMSRSora RailUMSRBlack RailRMCommon GallinuleUMSRAmerican CootCMSRSemipalmated PloverRMKilldeerCMSRAmerican Golden PloverRMBlack-bellied PloverCMBlack-bellied PloverUMSRAmerican Golden PloverCMBlack-bellied PloverCMBlack-bellied PloverCMMudy TurnstoneRMMumbrelRVEskimo CurlewPEUpland PloverCSRSolitary SandpiperCMKnotRVPectoral SandpiperCMWhite-rumped SandpiperCMMite-rumped SandpiperCMBaird's SandpiperCMSuitt SandpiperCMShort-billed DowitcherRMMarbled GodwitRMMarbled GodwitRMMara		
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Short-billed Dowitcher	White-rumped Sandpipe	er
Short-billed Dowitcher	Baird's Sandpiper	CM
Short-billed Dowitcher	Least Sandpiper	CM
Short-billed Dowitcher	Dunlin	CM
Stilt Sandpiper CM Semipalmated Sandpiper CM Western Sandpiper RM Buff-breasted Sandpiper RM Marbled Godwit RM Hudsonian Godwit UM Ruff A Sanderling UM American Avocet RM Black-necked Stilt RV Wilson's Phalarope CM Northern Phalarope RM Parasitic Jaeger A Glaucous Gull A	Short-billed Dowitcher	
Semipalmated Sandpiper CM Western Sandpiper RM Buff-breasted Sandpiper RM Marbled Godwit RM Hudsonian Godwit UM Ruff A Sanderling UM American Avocet RM Black-necked Stilt RV Wilson's Phalarope CM Northern Phalarope RV Parasitic Jaeger A Glaucous Gull A	Long-billed Dowitcher	CM
Buff-breasted Sandpiper	Stilt Sandpiper	CM
Buff-breasted Sandpiper	Semipalmated Sandpipe	er CM
Buff-breasted Sandpiper	Western Sandpiper	
Hudsonian Godwit	Buff-breasted Sandpipe	r
Hudsonian Godwit	Marbled Godwit	
Ruff	Hudsonian Godwit	UM
Sanderling		
American Avocet	Sanderling	UM.
Black-necked Stilt	American Avocet	BM
Wilson's Phalarope	Black-necked Stilt	BV
Northern Phalarope		
Parasitic Jaeger		
Long-tailed Jaeger		
Glaucous Gull	Long tailed longer	· · · · · · · · · · · · · · · · · · ·
Herring Gull		
		· · · · · · ·
	Hennig Guil	· · · · · · · · · · · · · · · · · · ·

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Common Names Ring-billed Gull	Status
Ring-billed Gull	CM
Franklin's Gull	CM
Franklin's Gull	LIM
Black-legged Kittiwake	
Sching's Cull	
Sabine s Guil	RV
Forster's Tern	CM
Common Tern	UM
Interior Least Tern	. USR
Caspian Tern	UM
Black Tern	CMSR
Black Tern	A
Rock Dove	IS
Eastern Mourning Dove	CR
Western Mourning Dove	
Western Wourning Dove	Un
Passenger Pigeon	E
Louisiana Parakeet	E
Yellow-billed Cuckoo	
Black-billed Cuckoo	. CSR
Groove-billed Ani	A
Barn Owl	UB
Eastern Screech Owl	CR
Eastern Screech Owl	UN
Aiken's Scieech Owl	n
Great Horned Owl	UR
Artic Horned Owl	WV
Montana Horned Owl	WV
Snowy Owl	WV
Western Burrowing Owl	. RSR
Northern Barred Owl	CR
Great Gray Owl	RV
Long-eared Owl	CWV
Short gared Owl	CWV
Short-eared Own	
Short-eared Owl	. 0000
Eastern Whip-poor-will	. CSR
Chuck-Will's-Widow	. RSR
Nuttall's Poor-will	RV
Eastern Nighthawk	. CSR
Eastern Nighthawk	CM
Chimney Swift	. CSR
Ruby-throated Hummingbird	. CSR
Eastern Belted Kingfisher	CSR
Yellow-shafted Flicker	
Red-shafted Flicker	. Con
Northern Pileated Woodpecker	
Red-bellied Woodpecker	
Red-headed Woodpecker	
Lewis' Woodpecker	RV
Yellow-bellied Sapsucker	CM
Eastern Hairy Woodpecker	
Northern Downy Woodpecker	CR
Northern Three-toed Woodpecker	OII
Eastern Kingbird	. USH
Western Kingbird	
Great Crested Flycatcher	. CSR

Common Names Eastern Phoebe	Status
Eastern Phoebe	. CSR
Say's Phoebe	. RSR
Yellow-bellied Flycatcher	. USR
Acadian Flycatcher	. USR
Traill's Elycatcher	. CSR
Least Elyesteher	CSR
Eastarn Wood Dawag	CCD
Eastern Wood Pewee Olive-sided Flycatcher	. Con
Olive-sided Flycatcher	
	. CWR
Northern Horned Lark	.UWR
Prairie Horned Lark	. CSR
Prairie Horned Lark	CMSR
Bank Swallow	. CSR
Rough-winged Swallow	. CSR
Barn Swallow	. CSR
Northern Cliff Swallow	CSR
Purple Martin	CSR
Northern Blue Jay	CPR
Plack billed Magnie	
	. UWV
Tree Swallow	HV
Common Crow	CR
Clark's Nutcracker	A
Black-capped Chickadee	. CPR
Long-tailed Chickadee	. CWR
Carolina Chickadee	A
Tufted Titmouse	CR
White-breasted Nuthatch	. CPR
Red-breasted Nuthatch	.UWV
Brown Creeper	CM
Common RavenCommon CrowClark's NutcrackerBlack-capped ChickadeeLong-tailed ChickadeeCarolina ChickadeeTufted TitmouseWhite-breasted NuthatchRed-breasted NuthatchBrown CreeperWestern House WrenEastern Winter WrenBewick's WrenCarolina Wren	. CSR
Eastern Winter Wren	CM
Bewick's Wren	. RSR
Carolina Wren	. USR
Prairie Marsh Wren	. CSR
Short-billed Marsh Wren	USR
Rock Wren	RSR
Mockingbird	UR
Cathird	CSR
Catbird	CSR
Sara Thrashar	- BV
Sage Thrasher	ACD
Wood Thrush	. ASh
	. Con
Hermit Thrush	
Russett-backed Swainson's Inrush	A
Olive-backed Swainson's Thrush .	
Gray-cheeked Thrush	
Veery	
Eastern Bluebird	. CSR
Mountain Bluebird	
Townsend's Solitaire	
Blue-gray Gnatcatcher	. USR
Golden-crowned Kinglet	CM
Ruby-crowned Kinglet	CM
mi's Turkey	

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Common Names	Status
Water Pipit	UM
Sprague's Pipit	· · ·
Bohemian Waxwing	UM
Cedar Waxwing	CIVISH
Northern Shrike	UWV
Northwestern Shrike	
Migrant Shrike	. COR
Starling	LICD
Rell's Viroo	. USh
Bell's Vireo	CM
Solitary Vireo	CM
Yellow-throated Vireo Solitary Vireo Solitary Vireo Philadelphia Vireo Philadelphia Vireo Black and White Warbler	CM
Philadelphia Vireo	LIM
Warbling Vireo	CSB
Black and White Warbler	CM
Promonolary warnier	Uan
Worm-eating Warbler	RSR
Golden-winged Warbler	RM
Blue-winged Warbler	UMSR
Lennessee Warnier	
Orange Crowned Warbler	CM
Nashville Warbler	CM
Parula Warbler	UM
Parula Warbler	. ASR
Magnolia Warbler	CM
Cape May Warbler	RM
Magnolia Warbler	RM
Myrtle Warbler	CM
Black-throated Green Warbler	UM
Cerulean Warbler	. USR
Blackburnian Warbler	CM
Yellow-throated Warbler	. RSR
Chestnut-sided Warbler	CM
Chestnut-sided Warbler	RM
Blackpoll Warbler	
Pine Warbler	UM
Pine Warbler	RM
Western Palm Warbler	CM
Ovenbird	CMSR
Northern Waterthrush	UM
Grinnell's Waterthrush Louisiana Waterthrush	CM
Louisiana Waterthrush	USR
Kentucky Warbler	
Connecticut Warbler	UM
Mourning Warbler	UM
Yellow-throat	CSR
	USR
Hooded Warbler	RM
Wilson's Warbler	CM
Canada Warbler	CM
American Redstart	ISCR
House Sparrow	1304

Common Names	Status
Bobolink	CMSR
Eastern Meadowlark	CSB
Western Meadowlark	CSR
Yellow-headed Blackbird	CSR
Eastern Redwinged Blackbird	LICP
Ciant Red wing	CMCD
Giant Red-wing	. CIVISH
Orchard Oriola	
Orchard Oriole	USR
Baltimore Oriole	CSR
Rusty Blackbird	CM
Brewer's Blackbird	UM
Common Grackle Brown-headed Cowbird	. AMSR
Brown-headed Cowbird	CSR
Nevada Cowbird	UM
Scarlet Tanager	USR
Summer Tanager	RSR
Cardinal	CPR
Rose-breasted Grosbeak	. CMSR
Blue Grosbeak	RV
Indigo Bunting	. CMSR
Laxuli Bunting	A
Dickcissel	ASR
Dickcissel Evening Grosbeak	BWV
Purple Finch	CWV
Pine Grosbeak	RWV
Pine Grosbeak	
Common Bodnoll	
Common Redpoll	UVVV
Greater Reupon	
Pine Siskin	
American Goldfinch	CSR
Red Crossbill	RWV
Bendire's Crossbill	RWV
White-winged Crossbill	RWV
Eastern Rutous-sided Lownee	CIVISE
Western Rufous-sided Towhee .	UM
Lark Bunting	RM
Eastern Savannah Sparrow	CM
Nevada Savannah Sparrow	RM
Eastern Grasshopper Sparrow .	USR
Western Grasshopper Sparrow .	
Leconte's Sparrow	UM
Henslow's Sparrow	UM
Sharp-tailed Sparrow	UM
Vesper Sparrow	CM
Lark Sparrow	USR
Slate-colored Junco	AMCWR
Cassiar Junco	RWV
Oregon Junco	RWV
Eastern Tree Sparrow	CWR
Western Tree Sparrow	CM
	000
	CSR
Clay Colored Sparrow	OCD
Eastern Field Sparrow	CSR

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IOWA BIRD MIGRATION CALENDAR

A bulletin giving the average dates of arrival of various birds calculated for Iowa has been prepared by Bob Moorman, Extension Wildlife Conservationist at Iowa State.

Gadwall	March 15	. November 4
American Pintail	March 5	.November 16
Green-Winged Teal	March 12	. November 8
Blue-Winged Teal	March 18	November4
	March 20	
	March 18	
	March 18	
	March 9	
	March 25	
	April 5	
American Merganser	March 20	November 12
	April 1	
Fastern Red-Tailed Hawk	March 12	November 16
	March 14	
Broadwinged Hawk	March 24	October 28
Swainson's Hawk	April 14	Sentember 25
Bough-Legged Hawk	October 16	March 25
Marsh Hawk	March 1	November 14
Eastern Sparrow Hawk	March 14	October 12
King Roll	April 17	Sontombor 25
Virginia Pail	April 17	October 15
American Coot	April 24	November 20
Killdoor	March 25	November 20
American Woodcock	March 10	. November 4
Wilson's Spins	April 9	November 26
Unland Ployer	March 25 · · · · · · · · · · · · · · · · · ·	August 21
Eastern Colitory Condinar	April 16	August 31
Graater Vallowlogs	April 23	Contomber 25
Horring Cull	April 4	September 25
	May 1	
	April 28	September 20
Plack Billed Cuckoo	May 16	September 25
Black-Billed Cuckoo	May 12	September 22
Balli Owi	Partially migratory Permanent resident	
Creat Harrad Oud	Permanent resident	
Northorn Derrod Oud	Permanent resident	
Northern Barred Owi	Permanent resident	
Chart Fred Owl	Partially migratory	
Short-Eared Owl		Closel barage
Eastern Whip-poor-will	April 26	September 18
Eastern Nighthawk	May 3	September 25
Chimney Swift	April 18	September 16
Ruby-Throated Hummingbird .	May 7	October 1
Eastern Belted Kingfisher	March 27	.November 18
Northern Flicker	March 20	October 22
Red-Bellied Woodpecker	Permanent resident May 1 · · · · · · · · · · · · · · · · · ·	Steller Public
Red-Headed Woodpecker	May 1	.November 20
Yellow-Bellied Sapsucker	April 3	October 15

Enter II. S. W. J. J.	2 The digit with the manual states
Eastern Hairy Woodpecker	Permanent resident
Northern Downy woodpecker .	Permanent resident
Arkansas Kingbird	May 8
Northern Crested Flycatcher .	May 8
	March 18 October 14
Eastern wood Pewee	May. 7
Trairie Horned Lark	Partially migratory
	April 5
Bank Swallow	April 20 · · · · · · · · · · · · · · · · · September 21
Rough-winged Swallow	April 19
	April 20
Cilli Swallow	April 24 · · · · · · · · · · · · · · · September 18
Northern Blue law	April 8 · · · · · · · · · · · · · · · · · ·
Northern Blue Jay	Permanent resident Permanent resident
Black-Capped Chickadee	Permanent resident
	Permanent resident Permanent resident
White-Breasted Nuthatch	Permanent resident
	March 8
	April 15
Golden-Crowned Kinglet	April 2
Ruby-Crowned Kinglet	April 10
	March 7
	March 28October 26
	May 6
	April 27
Tennessee Warbler	May 10
Nashville Warbler	May 6
Eastern Yellow Warbler	May 3
Magnolia Warbler	May 12 September 14 April 20 September 10
Myrtle Warbler	April 20 September 10
	May 5
Grinnells Water Thrush	May 7
Louisiana Water Thrush	April 23
Northern Yellow-Throat	May 7
American Redstart	May 8
Bobolink	May 1
	March 10
Western Meadowlark	March 12
	April 14
Red-Wing Blackbird	March 12
Orchard Oriole	May 10
	May 1
Rusty Blackbird	March 21
Bronzed Grackle	March 14
Eastern Cowbird	April 10
Scarlet Tanager	May 8
Eastern Cardinal	Permanent resident
Rose-Breasted Grosbeak	May 1
Indigo Bunting	May 6
Dickcissel	May 16
Eastern Purple Finch	March 24
Pine Grosbeak	November 2
Common Red Poll	October 22
Northern Pine Siskin	April 24

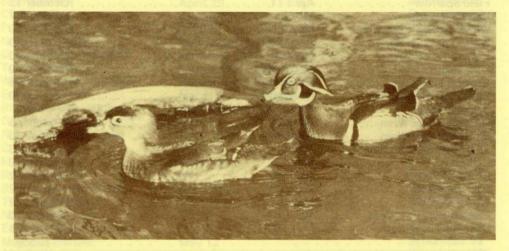
Eastern Goldfinch	. Permanent resident	
Red Crossbill	. Irregular winter visitant	
White-Winged Crossbill	. Irregular winter visitant	
	. April 14	October 17
Grasshopper Sparrow	. April 28	September 27
Eastern Vesper Sparrow	. April 2	October 23
Eastern Lark Sparrow	. April 21	July 30
Slate-Colored Junco	. Winter Visitant	male struct benelity
Tree Sparrow	. March 30	October 24
	. April 1	
Clay-Colored Sparrow	. April 18	October 12
Field Sparrow	. April 11	October 12
	. May 9	
White-Crowned Sparrow	. May 6	October 9
	. April 26	
Eastern Fox Sparrow	. April 6	October 10
Song Sparrow	. March 20	November 9
Lapland Longspur	. October 23	March 18
Eastern Snow Bunting	. November 6	March 10
Brown Creeper	. Permanent resident	
Western House Wren	. April 26	October 5
Eastern Winter Wren	. April 4	September 30
Short-Billed Marsh Wren	. May 6	September 25
Catbird	. May 1	October 3
Brown Thrasher	. April 16	October 2
Eastern Robin	. March 8	November 12
Wood Thrush	. May 3	September 22
Eastern Hermit Thrush	. April 10	October 10
Olive-Backed Thrush	. May 10	September 24



CONSTRUCTION AND INSTALLATION OF WOOD DUCK NESTING BOXES

Indisputably the drake wood duck is the most beautiful of all our ducks. It is an important species in Iowa being one of our few species of breeding waterfowl and forming an important part of the hunter's bag in some sections of the state.

Wood ducks also suffer heavy predation in their natural nest sites especially from raccoon and fox squirrel. By installation of next boxes of proper design both coon and squirrel predation can be eliminated. By providing more and safer nesting sites, the production of young can be increased.



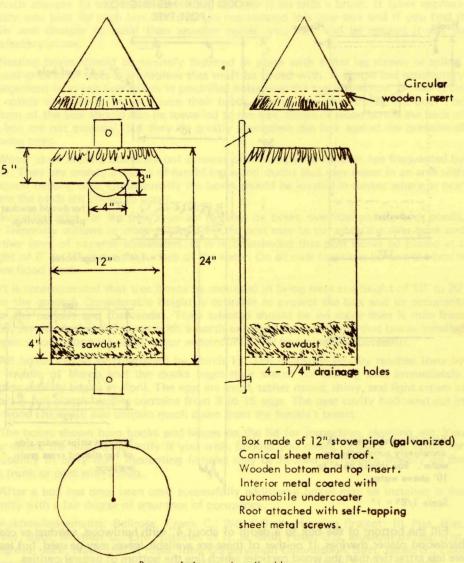
The natural nesting site of the wood duck is a fairly large natural cavity in the trunk or large branch of a tree. It has no special preference for any particular kind of tree and not much choice as to its location, but it would probably prefer to find a hollow tree near some body of water. It is often forced to select a tree a long distance from water, even in dooryards and city parks. The size and depth of these natural cavities vary greatly and be anywhere from 3 to 50 feet from the ground. If it cannot find a natural cavity that suits its taste it will occasionally occupy the hole of one of the larger woodpeckers or of a fox squirrel.

The box designs shown will be found to meet the requirements of the ducks. One design is modified for post mounting in marshes and ponds. The other is designed for tree mounting.

Wooden boxes are generally made from one inch rough lumber free from knot holes and cracks. Rough native lumber may often be obtained for this purpose at low cost. The more durable the lumber is, the better for the purpose. Any holes or cracks which occur in the lumber must be covered, for the ducks will not use boxes permitting light to enter near the bottom Ducklings climb to the entrance hole with sharp toe nails to leave the nest. Consequently rough lumber should be used. If dressed lumber must be used attach a strip of screen wire or hardware cloth to the inside of the front to permit them to climb out.

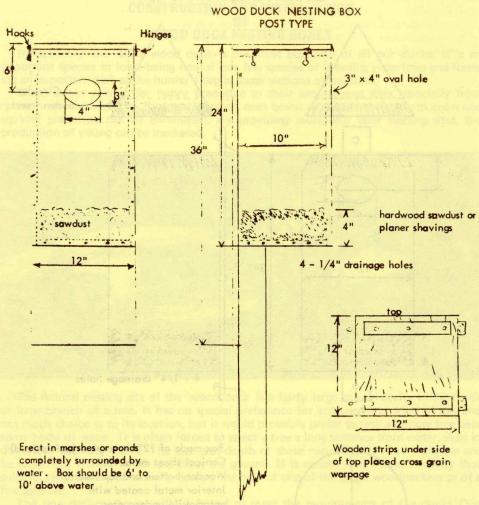
The entrance hole is centered on the front of the box from four to six inches from the top depending on the design. A four inch round hole was formerly used on wood duck nest boxes. This may still be satisfactory for boxes mounted on poles or posts completely surrounded by water. An oval hole 3" x 4" will exclude raccoon from the box and still allow entrance to the ducks. It is recommended that this oval hole be used on all wood duck boxes. Be sure the small diameter of the hole is vertical and the large horizontal.

Wood Duck Nesting Box - Tree Type



By permission as described by Frank Bellrase, Illinois Natural History Survey Scale 1/8" = 1"

Authorities disagree on painting. This is a point which apparently makes very little difference to the birds so long as the paint used is a dull, drab, natural appearing color. Board nesting boxes may be left unpainted if desired but some form of paint or wood sealer will aid in preventing rotting and warpage and add to their life expectancy. All metal or metal covered boxes should be painted an olive drab or "dead grass" color. Painting undoubtedly makes metal houses more attractive to the ducks.



Scale 1/8" = 1"

Fill the bottom of the box to a depth of about 4" with hardwood, sawdust or coarse hardwood planer shavings. If neither of these are available leaves may be used, but leaves are less attractive than the wood particles which line the bottom of natural cavities.

At least four $\frac{1}{2}$ drain holes should be drilled in the bottom of each box to prevent the accumulation of undue amounts of moisture.

Squirrels are difficult to exclude from boxes. Three features must be incorporated in wooden boxes to keep them out. These are: metal cone or pyrmid on roof; roof overhang at front; and metal facing on front and sides.

Also included in the drawings is a new type metal box developed by Frank Bellrose of the Illinois Natural History Survey. This box is made from 12" stove pipe with a wooden bottom and a conical sheet metal roof. The cone roof is designed to prevent predators from entering. In order to enable the young to climb out the interior of the metal is covered with automobile undercoating about 1/8" thick. A garage will spray it on, but it

is much cheaper to buy the undercoating and dab it on with a brush. It takes approximately one pint for each box. We strongly recommend this new box and if you find it easier and cheaper to build than wooden boxes, you may also be assured it will be satisfactory in use.

Nesting boxes should be securely fastened in place with either lag screws or spikes. Annual growth of trees is a problem that must be coped with. A simple but satisfactory arrangement is to use two spikes in predrilled holes near the top of the box. Do not drive the spikes completely in, and wire their heads securely together inside the box. The bottom of the box should also be toenailed to the tree. Strips of wood across the back of the box are not essential, but they do greatly strengthen the box against the pressure of growing trees.

Wood duck nesting boxes are not a means of enticing birds to areas not frequented by them. They are merely a means of furnishing wood ducks that may occur in an area with adequate nesting sites. Consequently the boxes should be located in timber where or near where the birds are known to occur.

Suggested sites for the post type are marshes ox bows, overflow ponds, farm ponds, etc. Generally willows or other material for the post may be cut along the river bank and another item of expense eliminated. It is recommended that post boxes be placed at a height of 6' to 10' above the surface of the water. On all river locations be sure the box is above flood crest.

It is recommended that tree boxes be mounted in living trees at a height of 10' to 20' from the ground. Considerable height is desirable to protect the box and its occupants from the curious and the vandal. Trees selected should be no more than ¼ mile from water. Avoid placing the boxes with a north exposure. It is believed that boxes installed in open woods along the states major watercourses will be eminently successful.

All boxes should be completed by March 15. The migration usually reaches Iowa by the middle of March and the ducks begin their search for nesting sites immediately. Nesting activity begins in April. The eggs are small, rather round, shiny, and light cream in color. A full clutch usually contains from 8 to 15 eggs. The nest cavity hollowed out in the wood chips will also contain much down from the female's breast.

The boxes shown have hooks and hinges on the lid for inspection, cleaning, etc. You may secure the lids permanently if you wish. Should you desire to check the boxes for occupancy in early May, incubating females may be flushed by rapping sharply on the tree trunk or post with a club.

After a box has once been used successfully additional boxes may be installed in the vicinity with a fair degree of assurance of occupancy.

Acknowledgements: Bellrose, Frank C.; Wood Duck Housing Project: III. Nat. Hist. Survey, Bent, Aurthur C.; Life Histories of N. A. Wild Fowl; U.S. Museum of Nat. Hist. Musgrove, Jack; Waterfowl in Iowa; Iowa Conservation Commission, Sieh, James G.; Lake Odessa Nesting Box Data, Iowa Conservation Commission Quarterly Biology Reports.



TAILOR-MADE BIRD HOUSES

Ken Morrison of the National Audubon Society sent us a colorful little book, "The Picture Primer of Attracting Birds". It was published in 1952 by the Riverside Press of Cambridge, Massachusetts.

Written by C. Russell Mason and illustrated in color by Bob Hines, the little book is an excellent source of information for winter and summer bird feeding, and for attracting birds in all seasons. It also includes a brief section on birdhouse building specifications.

Many hobby-built birdhouses are not designed for any specific bird, and dimensions of such shelters can be quite critical. A house intended for songbirds may be taken over by sparrows or other species if not built to certain specifications.

- Web of the second second second second			THE R. LEWIS CO.	The second second second	a second s
	vent mer	ing world ducks	Entrance	Center of	Height
Cassion Provint	Floor	Depth	Diameter	Entrance	Above
Species	Inches	in Inches	in Inches	Above Floor In Inches	Ground In Feet
			A CONTRACTOR OF		
House wren	4X4	5 to 7	1*	3½ to 5½	5 to 10
Carolina wren,	OIF THE SC	Actual solution	ISTRUE I		an Anterantor 12
Bewick's wren	4X4	5 to 7	11/8 to 13/8	3½ to 5½	5 to 10
Prothonotary	AND DOCTOR	e water. On all n	TO TO SOLVED		Past a to tube
warbler	4X4	8 to 10	1 1/8	6 to 8	3 to 5
Chickadee	4X4	8 to 10	1 1/8	6 to 8	5 to 15
Nuthatch,	a data too	desirable to pro-	a height is	Considerab	om the around
Downy woodpecker,		blunde battele	Inna T Inte		upmin adl-min
Titmice	4X4	8 to 10	1 1/4	6 to 8	5 to 15
Bluebird	attenand me	and the same	maine water	ong the states	le theory near
Tree swallow,	a consideration of	and they we have	and the second		
violet-green swallow	4X5	7 to 9	1 1/2	5½ to 7¼	4 to 15
Crested flycatcher	anzent ani	in preir search	an spann a	CO. DUTE TO YOU	C TO STUDIE S
Ash-throated fly-	sine , brug	re unall, rather a	, The eggs is		Lifering Burner
catcher and only and	6X6	8 to 10	2 2 2018	6 to 8	8 to 20
Hairy woodpecker,	ile's breast	in from the tem.	noto naven dan	ISTNO9 USUS TH	eventure poose a
Golden-fronted	interiori	es no the lid for	wid how all		The boxes sho
woodpecker	6X6	13 to 15	1 3/4 to 2	9 to 12	8 to 20
Red-headed wood-	a lid had	the may be fire	mat poited	WEI WORKS IN	es ni Varian m
pecker	7X7	16 to 18	2 to 2 1/2	12 to 14	12 to 20
Flickers,					
Saw-whet owl	7X7	16 to 18	3	12 to 14	12 to 20
Screech owl,		distingtions	The posterios	e to assigno n	or a tour tanna
Sparrow hawk	8X10	13 to 15	31/4	9 to 12	12 to 20
Hooded merganser	10X10	15 to 18	5	10 to 13	4 to 6
Wood duck	10X10	15 to 18	5	10 to 13	4 to 20
Golden-eye	10X10	15 to 18	7	10 to 13	4 to 20
Martin	6X6	6	21/2	21/4	15 to 25

*Or may use rectangular slot one inch high, three inches long.

All houses for woodpeckers, owls, sparrow hawks, and ducks should have two inches of wood chips or sawdust on the floor.

This booklet has been prepared by the

Iowa Conservation Commission 300 4th Street Des Moines, Iowa 50319

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