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March, 1965

BIRDING IS FUN

Max Schnepf

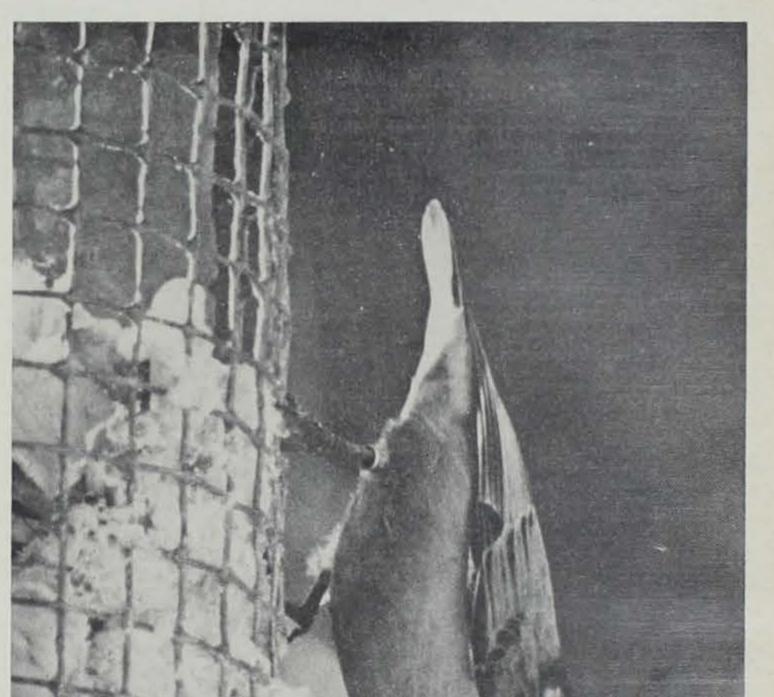
"Bird watching" brings to many people's minds a picture of besectacled elderly gentlemen with walking canes and frivolous women essed in course tweeds and leather walking shoes scurrying about te city park, monoculars in hand, spying on the array of bird life tting among the greenery. No picture is more ill-conceived!

Bird watching, more properly called birding, is a serious hobby to ree million American naturalists and scientists. To these participants, rding is a source of scientific information, such as sight records, poputions, distribution and migration patterns.

the Each year the Department of the Interior's Fish and Wildlife Service ist put licits the cooperation of birders in estimating waterfowl populations. is used ander the direction of the National Audubon Society, local birding ubs and natural history clubs throughout the United States make an unual bird census known as the Christmas census because it is made iring the holiday season; the results, compiled by the Society, comise the best record of bird numbers and distribution in this country.

Less Serious Participants

In addition to the serious participants are millions of weekend birders ho enjoy the activity as a form of outdoor recreation. To these people, rding places avian life in a new dimension. They become aware of e abundant and varied forms of bird life-approximately 750 species shore birds, waterfowl, song birds and birds of prey exist on the orth American continent. These amateur birders view bird life in the ntext of nature rather than as feathered nuisances that eat strawrries out of gardens or decorate statues in the parks. Although birding can be a year 'round hobby, the most interesting id colorful time to go is spring. Stimulated by mild weather and the nger periods of daylight, thousands of birds in breeding plumage stinctively fly north to their summer residence. (A list accompanying is article indicates the average spring arrival date in Central Iowa r a number of bird species.)



Number 3

The competitive spirit of this hobby results in contests to see who can serve the rarest, earliest arriving or most species. On May Day each ar, birding clubs across the land vie with each other in an attempt identify the most species within a 24-hour period.

Birding Equipment

The well-outfitted birder carries a pair of field glasses or binoculars, field guide for identification, notebook or checklist, pen or pencil and ears clothing to correspond with the season.

The choice of field glasses depends on individual preferences concern-3 magnification and field of view. The versatile 7 x 35 binocular is ost popular because of its light weight. A 20X spotting scope with pod is almost essential for long distance observation of hawks or terfowl.

Several excellent field guides are available, including Roger Tory terson's Field Guide to the Birds and the Audubon Bird Guide. For e real enthusiast, a record album of bird songs keyed to Peterson's ld guide can also be purchased.

Identifying Birds

Identifying birds presents a challenge, especially to the beginning der. The ideal way to learn identification techniques and specific 'd species is to accompany an expert. Since this is frequently imssible, there are a few tips every beginner should know.

Birding should be done in small groups-never more than 10 indiluals. Move slowly and quietly. Scour the trees for movements. You ly even want to sit in one spot for several minutes. Talk only when cessary, and keep it to a whisper.

When an unknown species is spotted, work into a position that allows clear view of the bird. Keep the sun at your back if at all possible. Once in position, make these general observations! (Continued on page 24)

Contraction of the second state of the second



Jim Sherman Photo White-Breasted Nuthatch, a permanent resident in Iowa,

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Iowa Conservationist No. 3 Vol. 24 March, 1965

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Subscription price: two years at \$1.00 Second class postage paid at Des Moines, Iowa (No Rights Reserved) HAROLD E. HUGHES, Governor E. B. SPEAKER, Director JAMES R. SHERMAN, Editor MAX SCHNEPF, Managing Editor JACK HIGGINS, Contributing Editor JACK KIRSTEIN, Photographer

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CIRCULATION THIS ISSUE

COMMISSION MINUTES

February 2 and 3, 1965 FISH AND GAME

Approval was given to the 1965 Fishing Season Regulations.

Approval was given to exercise seven options for approximately 300 acres of Badger Lake in Monona County at an average cost of \$150 per acre.

Approval was given for a land exchange at Hendrickson Marsh in Story County involving 38 acres in ownership of Mr. Long, in trade for land having the same appraisal value.

A report was given concerning planning for part of the Kiowa Marsh in Sac County and further negotiations with the County Board

a suit to recover trout loss damages at Big Springs.

which are briefly to be an a second of the second sec

LANDS AND WATERS

Approval was given to a motion to hold a meeting with interested groups at the site of a proposed sewage treatment plant in the town of Sabula.

The Commission met with a delegation from Carroll County to discuss various ways and means of financing the expansion of Swan Lake Park which is now under the management of the Carroll County Conservation Board.

A bid of \$3,854.52 was accepted for fuel for the Stom Lake Dredge from the Callison Oil Sales.

A discussion was held concern-52,000 ing three applications for the Backbone Park Concession, and the contract was awarded to Dale Nodurft for 3 years.

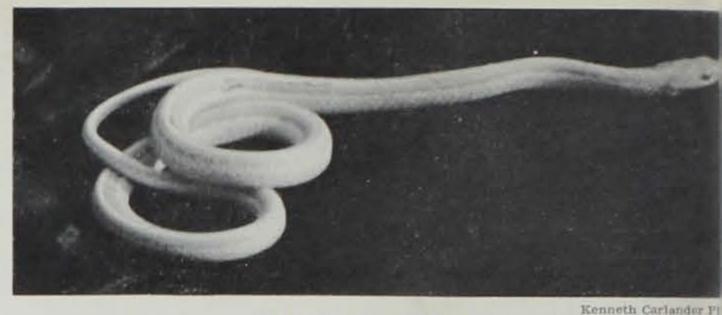
> Mr. George Weaver of the Engineering Section reviewed the principal large lake sites studied to date.

A discussion was held concerning the possible purchase of land Dr. Kinney, Commissioner, was before but are very rare. asked to contact the landowners involved and determine the lowest price on this property.

A discussion was held by the Commission and Staff on the management of the Eagle Lake water level.

Boat registration procedures were reviewed.

Approval was given to a request that a complete file of all data involved in the Missouri land mately 31/2 miles east of the town Yellow River Forest to Prail transactions and studies be estab- of Nevada to be used as a highway du Chien in Wisconsin; Blank lished in the Commission Office in safety rest area. Des Moines.



GHOST SNAKE Dr. Kenneth D. Carlander

Iowa Cooperative Fisheries Research Unit Iowa State University

Raymond Hylland of Leland, Iowa, may have thought his eyes we deceiving him last September when he saw a ghost-like snake. For nately, it was only 21 inches long and he was able to catch it. It w all white except for a faint pinkish stripe down each side and fa pink blotches on the side. The eyes were bright pink.

Mr. Hylland turned the snake over to Wilfrid Macheak, Conservat Officer, who sent it to State Conservation Commission Biologist Te Moen. Tom sent it on to Iowa State University where it was put in the permanent museum collections after it died from injuries suffer while it tried to escape from a cage.

The snake was identified as an albino common garter snake (per vill vary at Casino Bay on Storm Lake; and haps the red-sided subspecies). Albino snakes have been report

> of the town of Ames adjacent to braska City, Rock Island and S U. S. Highway 69 to be used as a vannah. highway safety rest area.

Approval was given for the Story County received approval newal of annual blanket travel for the acquisition of 2½ acres of three district foresters one coun land by a sponsoring agreement into adjoining states to transa with the Iowa State Highway business.

The renewal of annual blank constructed Highway 30 approxi- travel by the area forester

IOWA CONSERVATIONIST

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of Supervisors and County Conservation Board were ordered.

Approval was given to permit an easement for levee purposes to Iowa River-Flint Creek Levee District No. 16 in Des Moines County with a provision that easements for crossing must be obtained for continuous access.

The Flint Access Area in Polk County was established as a Wildlife Refuge and abandoned as a shooting range.

Chairman Sherry Fisher received a report from Dr. Carlander of proval to acquire 21 acres of land for the Highway 30 Safety Rest Iowa State University regarding efforts to obtain the establishment of a Cooperative Fisheries Unit in Iowa. This Unit would carry an annual budget of \$40,000 and would be established at Iowa State University. The Director was ordered to prepare a resolution to be sent Congressmen and the U.S. Fish and Wildlife Service urging acceptance of the State of Iowa Area. for a Cooperative Fisheries Unit.

The Commission met with a delegation to discuss underwater Commission regulations.

Approval was given to a motion Cedar River. that Iowa participate in the proseason next fall.

COUNTY CONSERVATION ACTIVITIES

Calhoun County received approval for acquisition of 51/2 acres of land at a total cost of \$1,000 for the purpose of developing a fishing access to Big Cedar Creek and the development of a small picnic area to be called Kelly Access.

under a sponsoring agreement Area. with the Iowa State Highway Commission for the purpose of establishing a highway safety rest area adjacent to new U.S. Highway 30 west of Denison.

Howard County received approval for the acquisition of 27 acres of land at a total cost of \$1,500 for an addition to Vernon Spring Park

Linn County received approval for the acquisition of 331/3 acres of land adjacent to the Cedar River rough-fish spearing by scuba divers as a gift from the Iowa Electric North American Wildlife Conferin Iowa and went on record as Light and Power Company for deapproving of a proposed bill which velopment as an outdoor classroom Waterfowl Banding Program in would allow this activity, under for the teaching of natural sciences Canada; the U.S. Forest Fire Conand as a fishing access to the trol Meeting at Milwaukee, Wis- their jaw muscles extremely po

the Attorney General proceed with Commission located one mile north of Engineers Office in Omaha, Ne- ounce per week.

Commission located on the newly

proval for a development plan for adjoining states. the Burton Wildlife Area consisting of one acre of land adjacent DeSoto Bend National Wildl to Highway 38.

Delaware County received ap- obtain further information on t proval for development of the M & subject. O Wildlife Areas consisting of $6\frac{1}{2}$ acres of land.

for a development plan for the the new archeological findings Crawford County received ap- Highway 69 Safety Rest Area and Iowa.

> The County Conservation Director, H. W. Freed, reported on the negotiations concerning the Iowa Public Service Company riverdams and landholdings in Humboldt County.

The Commission approved the acquisition of the mill race in Humboldt to use in connection with the fish hatchery there.

GENERAL

Approval was given for travel to ence at Washington, D. C.; the consin; Participation in sports erful. Story County received approval shows at Chicago, Milwaukee, Minposed special experimental teal for the acquisition of one acre of neapolis, and Omaha; a Blanket land by a sponsoring agreement Travel Authorization for Engineer- sparingly. He produces it at t The Commission requested that with the Iowa State Highway ing Section Personnel to the Corps rate of only about one-third liqu

Travel for Land Acquisition Pe Delaware County received ap- sonnel to travel one county in

> The Commission discussed t Program and asked the Director

Dr. Marshall McKusick, Sta Archeologist, appeared before t Story County received approval Commission and discussed some

> Snakes can swallow their victir disically, o whole since the upper and low jaw can "unhook" to encompa large objects.

The flea can lift 140 times own weight. If a man could this, he would be capable of li ing a ten-ton truck.

The bluegill gets its name fro a small blue tab that exten backward from the gill cover.

Turtles have no teeth, but the jawbones are often very sharp a

The skunk uses his potent sce

G" PRACTICES IMPROVE IOWA'S HERITAGE

Jack Higgins

Future hunting and fishing prospects have never looked brighter in wa than at this time. The credit for this improved outlook goes to rmers and landowners who have set up cooperative conservation eas with the aid of the Agriculture Stabilization and Conservation ervice, and State Conservation Commission. Their activities cover ree basic wildlife habitats and are known as the "G" practices.

G-1

The G-1 program seeks to establish vegetative cover which will prode wildlife with both food and habitat. It is the broadest of the three ograms, as it may be set up on any, or all, parts of a farm.

One portion allows the establishment of shrubs as field and travel ne borders. A second section allows the planting of shrubs around isting groves and windbreaks. The purpose here is to encourage e development of ground cover for birds and animals in sections of e state that have little, if any, natural shrub growth in fields. The ird section encourages the use of odd areas for plantings that are itable for wildlife, but not agriculture.

⁵ Odd area plantings must contain at least one-fourth acres of ground, d may be located on any portion of the farm. The pattern of plantg will vary according to location and layout of the area. In general, no larger than 15 acres. The pond itself has to have at least one-half retain the plots consist of a central area planted to either conifers, or an surface acres of water. ea on which the major portion is planted to permanent vegetative ver. Where conifers are used, the odd area planting consists of at 1st 50 conifers and 50 shrubs.

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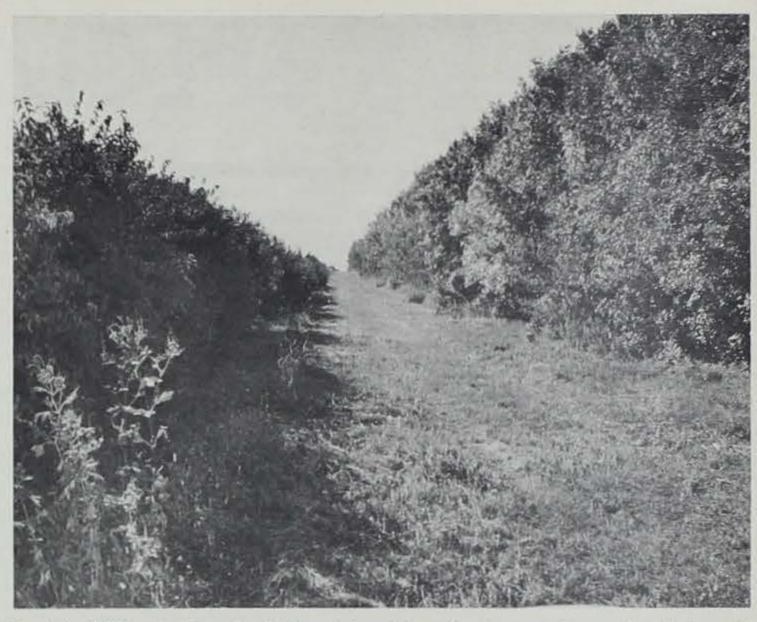
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velopment aid.

A marsh may be established by plugging a drainage channel to return marsh conditions an area previously drained for agricultural use. this condition can't be met, consideration is given to the construcon of either a dike or dam system, or even the excavation of earth tion of soil and water-two assets vital to the continuance of our eded, the winter water table has to be no more than two feet below ound level.



Special wildlife plantings for field and travel lane borders can be purchased from the State Nursery.

Financing

Under both the G-2 and G-3 practices, the federal cost-sharing agreement extends to 60 percent of the total costs involved. In the case of pond construction, the average cost to landowners in south central The program for the development or restoration of shallow water Iowa has been about \$400 per one-half acre of surface water acquired. eas is designated as the G-2 practice. This program encourages the The G-1 program contains optional practices. Therefore, the costvelopment of marsh and feeding areas that are attractive to water- share agreements may vary. The percentage payments may range wl. Such an area has to be at least one acre in size to qualify for from a low of 50 percent for seeding an area, to a high of 80 percent of the cost of shrubs and trees.

"G" Practice Benefits

The idea behind all the "G" practices is that they foster the conserva-

Page 19

Waterfowl feeding areas are developed on flat, dry land, as they ve to be tilled and seeded annually and then be flooded for a portion the year. Flooding may be accomplished by pumping from an adjaat water supply, or by gravity from a near by impoundment.

G-3

ick. I The final "G" practice deals with the construction of ponds or dams create wildlife habitat for both animals and fish. The G-3 program meant to aid in the development of permanent water structures on "mland. No federal cost-sharing is permitted if the primary use Is for the impoundment to be used for irrigation, or the commercial duction of fish.

Basically, G-3 ponds must provide a minimum of eight feet of water at least 20 percent of the total surface area of the pond at all ies. The watershed may be as small as three acres, but can be



area plantings under the G-1 program aid small game populations by providing winter and nesting cover.

THE ADALASE HER REPORTED AND A MARKAGE AND A

a point below the water table. In the event that an excavation is society. The fact that they benefit the continuance of many forms of wildlife further enhances their value to both the farmer and the sportsman.

> Per mile, shrub rows will generally produce 15,000 additional beneficial insects, 20 more insect eating birds, and 20 desirable small animals. At the same time there is a drastic reduction in the number of pests that plague crops. There will be 39,000 fewer destructive insects and 63 less harmful animals. Anyway you look at it, this is a real economic gain.

> The hunter, on the other hand, discovers a more vigorous and numerous game population than had previously been supported by the land. Truly, these programs do much to improve the outlook of our Iowa heritage.

NATIONAL WILDLIFE WEEK

March 14-20

Control of water pollution is America's most pressing conservation problem. It has been estimated that, by 1980, this nation will need to re-use existing water supplies at least six times in order to meet domestic, industrial and agricultural needs.

Although many areas of our country are blessed with adequate water supplies at this time, we may face an acute water shortage unless steps are taken immediately to halt water pollution. By cleaning up streams, rivers, lakes and reservoirs, water can be used many times to supply human needs; but already, some parts of the country face economic disaster because of dirty water.

Every citizen can help "FIGHT DIRTY WATER" and keep America's supply of water clean and usable. Support efforts on the local, state and national level to control water pollution.

"FIGHT DIRTY WATER"

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IOWA CONSERVATIONIST

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SPRING'S SPECTACULAR GOOSE IHT



The clamor of thousands of blue and snow geese herald the arrival of spring as waves of these migrating birds move north each spring along the broad alluvial flood plain of the first March. Throughout the blustery month the magnificent flight shuttles north in the shadow of western lowa's loess hills—Hamburg, Percival, Thurman, Pacific Junction, Missouri and City—fell ralists, such as Audubon; and until recent years, went unnoticed except by a few people living on ma. Now,



Almost simultaneously, the blues and snows break formation; swinging and sideslipping, they descend to the ground to feed or rest. The constant milling attracts new flock The geese become so thick in some instances that it looks like there isn't room for another one to land. Suddenly they swarm into the air, frightened by the blundering approar of a photographer. With wings thundering and voices squawking, they circle a few times, and once more land to feed or rest.



Early morning and late afternoon is feeding time for the geese. In turn, the flocks move from their resting areas on lakes and sloughs to nearby fields. The long lines an broken V's settle into the wet gumbo soil where they glean what remains of last fall's harvest. The flocks hop from field to field until, guilets full, they return to the resting area

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HHT Photo Feature by **Jack Kirstein**

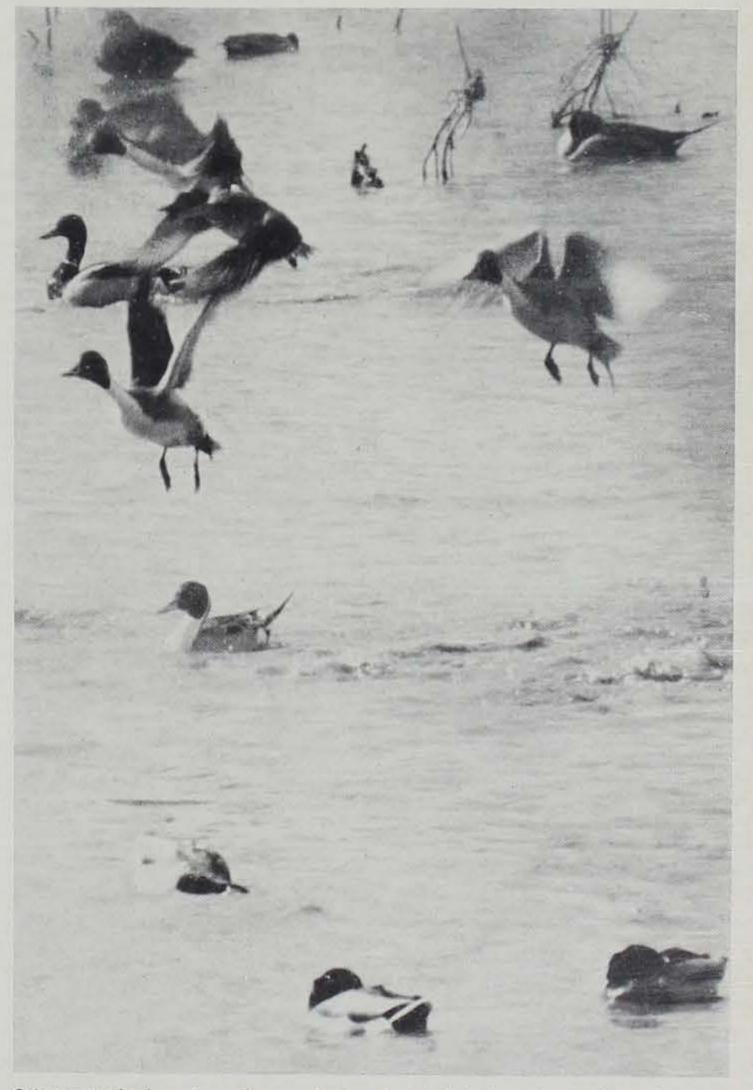


The first blues and snows begin arriving in lowa during the last week in February or first week in March; the peak migration usually occurs between the 10th and 25th of Minuted ux City-following the retreating snow line on the 2,600-mile journey to the Baffin Island breeding grounds. The spectacle was never mentioned in the writings of early natu-In all over the midwest line the highways to view the awesome sight.

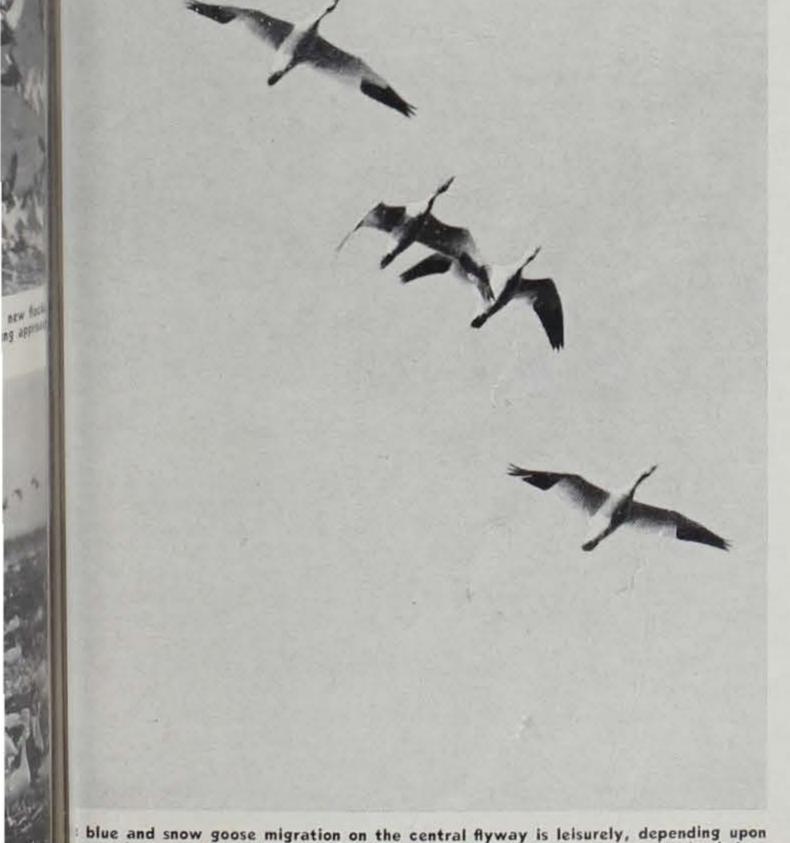


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blue and snow goose migration on the central flyway is leisurely, depending upon weather conditions. A late winter storm may send the birds scurrying back into souri, or unusually mild weather may magnetically draw them northward. Once y leave lowa, the blues and snows, accompanied by lesser numbers of Canadas and te-fronts, migrate through Minnesota, South Dakota and North Dakota, into the adian prairie provinces to lamor Bay and eventually into their arctic nesting adian prairie provinces, to James Bay and eventually into their arctic nesting grounds.

Other waterfowl, such as these mallard and pintail ducks, enhance the spring spectacle. Teal, baldpates, mergansers and redheads, dart in and out among the flocks of geese. To see all the birds in their spring plumages, to see and hear their mating flights and calls and to thrill to the sheer magnitude of the migratory flights is a never-to-be-forgotten experience. Further information regarding the spring flights can be obtained from the State Conservation Commission, East 7th and Court, Des Moines, Iowa 50308.

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SKUNKS AND THE **RABIES PROBLEM**

Paul D. Kline **Game Biologist**

People think they have problems with flu, measles, chicken pox, and the like. What many of us don't realize is that all wild animals also host a repertoire of diseases. Some are of no more consequence than our common cold. Others are of vital importance to individual animals or populations. Very few wildlife diseases are transferable to human or domestic livestock.

Recently, rabies has become significant in Iowa wildlife, principally among striped skunks. Other animals, such as foxes and raccoons, occasionally have rabies but not as often as skunks. Rabies would not be a problem if these animals kept the disease to themselves, but they don't. They infect livestock and pose a mild threat to campers, picnickers and other outdoorsmen. Much of Iowa's annual livestock loss due to rabies can be traced to skunks; and even though there are no recent Iowa records of rabies in humans, the threat exists. It should be pointed out that not all skunks are rabid. As a matter of fact, most of should be cautious before we evalthem are not.

The disease, frequently called of their role as rabies carriers. "hydrophobia" or "mad dog disease," is one that can infect any lates to their food habits. Both warm-blooded animal. It is caused species, striped and spotted, feed by a filterable virus which attacks heavily on insects in summer and nerve tissue and eventually the fall. Most of these insects are brain of the infected animal. Since generally considered harmful spethe virus usually occurs in the sa- cies. Grasshoppers, crickets, cutliva of the rabid animal, the dis- worms and white grubs are comease is usually transmitted from monly eaten. During winter and one animal to another by biting, spring, mice and rats are impor-One of the common symptoms of tant in the diet. According to an rabies is the irresistible urge to Iowa State University Extension roam and bite.

would be no guarantee that rabies would be reduced!

One might say, "Let's put a bounty on skunks." The failure of any bounty system should be obvious to Iowans. There has been a bounty on foxes for years. In recent years more than \$100,000 per annum has been spent for fox bounties, with the result that these animals are at least as numerous now as they were more than 20 years ago when the statewide bounty went into effect. A bounty on skunks would undoubtedly yield similar results.

Poisons Dangerous

Skunk control by use of poisons. has been suggested. Using poisons, however, would be danger- college credits in natural science. ous. Iowa has an average popu- The major fields of study include lation of 50 humans per square mile. With this human population and the vast number of dogs, cats, livestock and other wildlife, accidents would surely follow the use tion. of poisons no matter how well they were administered. Poisons are non-selective. They destroy whatever partakes of them.

Skunks Are Valuable

To this point we have condemned skunks. The truth is we uate skunks merely on the basis work out various combinations of

One positive value of skunks re-Service report, rats eat or destroy at least 100 pounds of food per rat per year in Iowa. This food has a minimum value of \$2.00. Rats do considerable other dam age also; but considering the food loss, the estimated 200,000 skunks (striped and spotted) perform a service worth \$400,000 per year in rat control alone. This is based on the assumption that each skunk kills only one rat per year-many kill more. Skunks probably kill and eat more mice than rats. It is difficult to say exactly how many mice the average skunk will eat during one year. If they eat 50 mice and we compare weights of mice and rats, we can say that the value of skunks for mouse control in Iowa is at least \$2,500,000 per annum. This is based on the assumption that it takes eight mice to equal the damage done by one rat. Hence, for rodent control alone we can place a minimum value of \$2,-900,000 per year on skunks. We must keep this in mind before we condemn all skunks.

TEACHERS CAMP APPLICATIONS DUE **Jack Higgins**

'The Iowa Teachers' Conservation Camp will soon be opening for its 16th annual session at Springbrook State Park. A number of openings still exist, but time for making application is quickly drawing to a close. Interested in- an undergraduate \$115.50; gra dividuals should make application ate students pay \$118.50. This in the near future.

gram gives Iowa teachers and college students who have a sophomore or better standing, an oppor- upon the resources of the orga tunity to live, work and play in a zation that agrees to sponsor it state park while earning up to six forest resources, ecology, fish and Admission is granted by the St wildlife management, rocks and College of Iowa, Iowa Falls. Cr. minerals, soil and land manage- it for the course also comes fr ment, as well as water conserva- SCI.

The subject matter is taught in tion Camp is the oldest school two courses presented during three its kind in the United States. sessions. Session dates are June is held annually at the Gro 6 to June 26, June 27 to July 17, Camp in Springbrook State Pa and July 18 to August 7. Students Guthrie County. Through the yes may sign up for either one or two it has established a reputation ti of the sessions. Since the first ses- extends beyond Iowa. Teach sion is repeated during the last from all over the nation have three week period, students may tended various sessions. First co

time that they want to devote summer study.

During any one course stude will travel about 1,000 miles to and learn at first hand about various conservation practices ing used in Iowa. A bus supp transportation to and from various sites.

A single three week course co covers tuition, room and boa The Conservation Camp pro- Scholarships are available in m counties. The amount may va as the scholarship is depende

> To be eligible for a scholarsh the student must first be accep for participation in the progra

The Iowa Teachers Conser

(Continued on page 24)



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High Skunk Population

At first glance it might seem simple to reduce the threat of rabies in Iowa by eliminating skunks. Certain facts complicate this solution, however. Skunk population surveys made in Iowa revealed an average of approximately three striped skunks per square mile. Therefore, Iowa's striped skunk population could be near 165,000 individuals. Any artificial population control would first need to remove the annual production or equivalent.

An Illinois study revealed the age ratio of skunks to be 2.3 juveniles per adult. In other words, more than two-thirds of the population represents annual production. Using these figures as a base, any sort of statewide control would need to remove 100,000 striped skunks annually before any resemblance of control would be achieved. Currently, less than 2,000 striped skunks are harvested each year by Iowa trappers.

If expert trappers were hired to achieve this degree of control, it would take at least 50 full time trappers and a capital outlay of lem. Local "hot spots" spring up threat. Skunk denning sites near threat, we will have to adjust

Rabies a Local Problem

"There's an eager beaver to see you, sir."

Any control of rabies in skunks piles, should be eliminated. Rat must be on a local basis, prefer- mouse infestations attract skun ably by farmers or livestockmen and should be eliminated. Skun who are faced with a rabies prob- are nocturnal animals. lem. It appears the only practical event that an individual of eith means for control is by use of steel species is seen wandering abo traps.

mission will help farmers and landowners set up a rabies control pro- stock have been exposed to rabie gram. Conservation Officers and a medical doctor or veterinari Game Managers will on request demonstrate the use of steel traps and skunk trapping techniques.

outbreaks, individual landowners the outdoors. It may be with should band together to trap a long time. Until research fin Rabies appears as a local prob- skunks in an effort to reduce the a solution or way to mitigate t \$500,000 annually. And there here and there, some of them in farm buildings, such as hay piles, this problem.

the same locality year after year. openings under buildings or tra In L during daylight hours, it should The State Conservation Com- destroyed as a suspect rabies ci rier. Whenever humans or liv should be consulted immediately

Rabies is one of many probler we must face as wildlife manage In areas of locally severe rabies farmers, sportsmen and lovers

THE MILKWEED

From the time their first green oots appear in spring until their ad brown stalks stand above e snow in winter, the milkweeds we a variety of uses and features interest. The common name rers to the milky juice that oozes om stems and leaves when they e cut or broken. Because the ots of milkweeds were used as ugs, their scientific name, clepias, was taken from that of B Greek god of medicine.

amounts for the drugs they con- by shaking the honeydew from its tain Formerly, these were com- blooms in early morning and dry- Root with its glowing orange flowmon remedies for lung trouble and ing it. rheumatism. The Indians made twine from the coarse strong fibers lowed by one or two large warty weeds, it lacks the milky juice. in the bark of the stalk. The dead pods with a seam along one side The Indians used its roots for medstalks with their picturesque emp- which pops open when the pod be- icine and cooked the green pods ty pods are favorites for making comes ripe and dry. Inside is a with their buffalo meat much as winter bouquets and art objects. closely packed roll of several hun- we use green peppers. The Swamp clusters of dull purple flowers with like scales on a fish, each with a red or rose-purple flowers which a heavy cloying odor which, though folded parachute of fine silky fiunpleasant to us, is unusually at- bers. Gradually, these parachutes The dainty Whorled Milkweed has tractive to bees and butterflies. open and the seeds are carried Each flower of the cluster has an away on the fall winds. During elaborate trap to catch the legs of the war, hundreds of tons of milkthese insects and remove any pol- weed pods were gathered by school len they may carry. Sometimes children and the silky fluff proc- livestock .- From the Cook County,

In autumn, the roots are still col- with its life for the nectar it came used to pad life jackets and flying lected and marketed in small to drink. Indians produced sugar suits.

The common milkweed bears dred flat brown seeds arranged Milkweed bears masses of brilliant the insect cannot escape and pays essed as a substitute for kapok, Illinois, Nature Bulletin.

The Butterfly Weed or Pleurisy ers is the most beautiful of the Each cluster of blossoms is fol- milkweeds. Unlike other milkare followed by pencil-slender pods. tiny greenish white flowers and very slender leaves. Mixed with hay crops it can be poisonous to

IOWA'S 1965 FISHING SEASONS AND LIMITS

March 1, 1965 to February 28, 1966

INLAND WATERS OF THE STATE

BOUNDARY WATERS

Internet within or the	NJ T T T T T T				DOOMDART WATLARD	
Kind of Fish:	Open Season	Daily Catch Limit	Posses- sion Limit		Mississippi River, Big Sioux River, Missouri River and Inland Waters of Lee County	
Carp, Buffalo, Quillback, Gar, Dogfish, Gizzard Shad, Sheeps- head, Sucker, Redhorse, Chub, Sunfish, Bluegill, Crappie, Sil- ver Bass, Bullhead, Rock Bass, Yellow Bass, Warmouth, Min- nows and Sand Sturgeon		None	None	None	Same as inland waters.	
Rock Sturgeon	Closed				Closed.	
Paddlefish	Continuous	2	4	5 lb.	Same as inland waters ex- cept no catch or possession limit on Mississippi River.	
Perch	Continuous	15	30	None	Same as inland waters ex- cept no catch or possession limit.	
Trout	Continuous	6	12	None	Same as inland waters.	
Catfish	Continuous	8	16	None	Continuous open season, no catch or possession limit.	
Largemouth Bass	Continuous	5	10	None	Largemouth and Smallmouth Black Bass. Continuous oper	
Smallmouth Bass	May 29- Feb. 15	5	10	None	season. Aggregate daily catch limit 10; aggregate possession limit 20.	
Walleye and Sauger	May 8- Feb. 15*	Walleye	Combined Walleye & Sauger 10	None	Continuous open season. Ag- gregate daily catch limit 10; aggregate possession limit 20.	
Northern Pike (Pickerel)	May 8- Feb. 15*	3	6	None	Continuous open season. Daily catch limit 5; posses- sion limit 10.	
Muskellunge	Closed				Closed.	
Frogs (except Bullfrogs)	Continuous	4 doz.	8 doz.	None	Same as inland waters.	
Bullfrogs (Rana Catesbeiana)	Continuous	1 doz,	1 doz.	None	Same as inland waters.	



he Common Milkweed so of 1 in fields, waste places, a ig roadsides is the largest a t familiar of the dozen or mo is found in the Chicago regio large oval leaves are arrang airs on the tall stout stem

Im Sherman

if one pair points east a t, the pair above and the pa w point north and south. Li r milkweeds it is a perenn oducing both from seeds a shallow roots that live ov winter.

ie "milk" is not the sap of t but a special secretion. lely bitter, it serves as a p on against most nibbling a ing animals. On the contra weed leaves are the only fo ae caterpillar of our monar erfly. Also, this milk quick any wound on the plant e it contains latex and, as , becomes very sticky a ic, turning into a kind o e rubber. See how a drop of milk makes your thumb and rs cling together. Like rubcement, it cannot be washed vith soap and water. During and Northern Pike (Pickerel) shall apply. d War II when imports of natrubber from the rubber tree cut off, the milkweed was d as a possible substitute. spring, the tender shoots can oiled and eaten like asparagus.

Where waters are located within the confines of state, county, city parks, or State Fish and Game Management Areas, fishing will be permitted only when such areas are open to the public.

*In all streams; Missouri and Mississippi River oxbow lakes and artificial lakes a continuous open season for Walleye, Sauger

EXCEPTIONS: On all state-owned natural lakes, all angling through ice is prohibited between the hours of 8:00 P.M. and 6:00 A.M.

In Little Spirit Lake, Dickinson County; Iowa and Tuttle (Okamanpedan) Lakes, Emmet County; Burt (Swag) Lake, Kossuth County; and Iowa Lake, Osceola County, the following exceptions apply: WALLEYE, daily catch limit 6, possession limit 6; NORTHERN PIKE, daily catch limit 3, possession limit 3; SUNFISH, daily catch limit 15, possession limit 30; CATFISH, daily catch limit 16, possession limit 16. Open seasons on above fish, May 8 to February 15. SMALLMOUTH AND LARGEMOUTH BLACK BASS, daily catch limit 5, possession limit 5. Open seasons, May 29 to November 30. The possession limit shall not exceed thirty (30) fish of all kinds in the aggregate except that the aggregate possession limit shall not apply to fish named on which there is no daily catch limit.

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BIRDING IS FUN-

(Continued from page 17)

- 1. Estimate the size of the bird. Compare it to a common bird you are familiar with-a sparrow, robin, crow, etc.
- 2. Is the bird chunky or slender?
- 3. What is the length and shape of the bird's tail and bill?
- 4. How long are the bird's legs?
- 5. Does the bird have a crested head?

Observe the bird's behavior!

- 1. Does the bird walk, hop, swim or wade?
- 2. Is the bird feeding on the ground, in low shrubbery, high in a tree or on the fly?
- 3. Does the bird move up or down the tree trunk as it feeds?
- 4. Does the bird fly in a straight line or in an undulating motion?
- 5. Do the bird's wings beat quickly or slowly?

Now look for the identifying color characteristics!

- 1. Is the bird's breast plain, spotted or striped?
- 2. Does the bird have an eye line?
- 3. Does the bird have an eye ring?
- 4. Does the bird have wing bars?
- 5. Does the bird have any other pronounced color patches or characteristics?

Once you have made these observations and recorded them in your mind or on paper, leaf through your field guide and attempt to make an identification. Soon you will learn to associate different characteristics with certain families and species of birds. The identification process will become more automatic, and you will be able to extend your concentration and observations to include bird songs, location of nests, a more precise study of behavior and making a rare find.

IOWA BIRD MIGRATION CALENDAR

Calendar Prepared by ROBERT B. MOORMAN, Extension Wildlife Conservationist, Iowa State University.

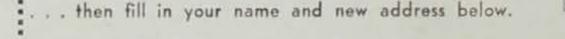
			sion, State College of Iowa	, and running a horse.	They make
Name of Species	Avg. Date of Arrival Avg.		the Department of Public In		
adwall		November 4	tion.		
merican Pintail	March 5	November 16			
reen-Winged Teal	March 12	November 8	Further information may	be ob- The bottle-nose	d dolphin or
lue-Winged Teal	March 18 March 20	October 26	tained by writing to the l	Public poise can outswi	m most fish
ood Duck	March 18	October 25	Dation Cation Chata Can	ann romain auth	correct no lo
envez Reek	March 18.	November 3	Relations Section, State Cons	serva- can remain subi	derged no to
esser Seaun Duck	March 9.	November 21	tion Commission. Applic	ations than three minut	es,
uffle-Hend	March 25.	November 6			
uddy Duck	April 5.	October 28	Name of Species Brown Thrasher	Avg. Date of Arrival A	vg. Date of Dep
merican Merganser	March 20.	November 12	Brown Thrasher	April 16	Octol
urkey Vulture	April 1	October 18	Eastern Robin	March 8	Novemu
astern Red-Tailed Hawk	March 12	November 16	Wood Thrush	May 3	Septemb
ed-Shouldered Hawk	March 14	October 16	Eastern Hermit Thrush	April 10	Octor
roadwinged Hawk	March 24	October 28	Olive Backed Thrush	May 10	Septem
wainson's Hawk	April 14		Fastern Bluehird	March 8	Octor
ough-Legged Hawk	(from north) October 16	March 25	Rho-Gray Gnatestcher	April 15	Septem
larsh Hawk		November 14	Colden-Crowned Kinglet	April 2	Uctor
Lastern Sparrow Hawk	March 14	October 12	Puby Crownod Kinglet	April 10.	Uctor
King Rail	April 17	September 25	Coder Weywing	March 7	Octor
irginia Rail	April 24	October 15	Migrant Shrike	March 28	Octor
merican Coot		November 20	Red-Eved Vireo		Septemi
	March 10		Black and White Warbler	April 27	Septem
American Woodcock	April 9	October 28	Tennessee Warbler		Septemi
Vilson's Snipe		November 25	Nashville Warbler	May 6	Octo
Jpland Plover		August 31	Eastern Yellow Warbler	May 3	Septem
Castern Solitary Sandpiper		October 10	Magnolia Warbler		Septem
Greater Yellowlegs	April 10	September 25	Myrtle Warbler	April 20	Septem
Herring Gull	April 4	November 12	Ovenbird		Septem
Bonaparte's Gull		October 4	Grinnell's Water Thrush		Septem
Common Tern	April 28		Louisiana Water Thrush	April 23	Septem
Mourning Dove		October 25	Northern Vellow-Throat	May 7	Septemi
Yellow-Billed Cuckoo		September 25	A second second D - ded a set	Mov S.	Bepteint
		September 22	Dahaliala	May L	Septeme
Barn Owl					
Eastern Screech Owl	Permanent resident		Workern Meadowlowk	March 12	CONTRACTOR OF A DESCRIPTION OF A DESCRIP
Great Horned Owl			Yellow-Headed Blackbird	April 14-	Novemi
Northern Barred Owl			Ded Wine Dlaghhind	March IZ	
Long-Eared Owl	Partially migratory				
Short-Eared Owl			Dalling and Oniola	Mgv	
Eastern Whip-poor-will	April 26	September 18	Rusty Blackbird	March 21	Novemb
Castern Nighthawk	May 3	September 25	Bronzed Grackle	March 14	Aug
Chimney Swift	April 18	September 16	Eastern Cowbird	April 10	Sentem
Ruby-Throated Hummingbird	May 7	October 1	Scarlet Tanager	Demonstrationt	uninen and protection
	March 27		Eastern Cardinal		Septemb
	March 20	October 22	Rose-Breasted Grosbeak	May 6	
Red-Bellied Woodpecker		March 100	Indigo Bunting	May 16	
Ked-Headed Woodpecker	May 1	November 20	Dickcissel Eastern Purple Finch	Morch 24	Octob
Lenow-Berned Sapsucker	April 3	October 15	Pine Grosbeak	November 2	Mar
Eastern Hairy Woodpecker					
Northern Downy Woodpecker		Contomber 9	Northern Pine Siskin	April 24	Octob
			Eastern Goldfinch	Permanent resident	
	March 18		Eastern Goldnnch	Incomplar winter visitant	
Eastern Phoebe	March 18 May 7	October 14			
Prairie Horned Lark	Partially migratory	October 1	No. 5 MM 1 MM 1	A pril 14	Octob
Tree Swellow	April 5	October 1			
Bank Swallow	April 20.	September 21			
Rough-Winged Swallow	April 19	September 4	Eastern Lark Sparrow	April 21	Jı
	April 20		Slate-Colored Junco	Winter visitant	
	April 24		100 CT	Detober 24	Mar
	April 8				
Northern Blue Jay		under and a second second second			
Black-Capped Chickadee					
Tufted Titmouse					
White-Breasted Nuthatch					
Brown Creeper					
Western House Wren	April 26	October 5			
Eastern Winter Wren(off	ten winter resident) April 4				
Short-Billed Jarsh Wren		September 25	Lapland Longanur		

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TEACHERS CAMP-

(Continued from page 22 sideration is always given to Iowa teachers, however.

Co-sponsors for the camp since it was first organized have been the most valuable of the tribe w the State Conservation Commis- ing very fast and capable of it sion State College of Jowa and munning a horse. They make

should be directed to Mr. Ber m Clausen, Director ITCC, State 'pl lege of Iowa, Cedar Falls.

The white Bishareen came is

Suffle-Hend	March 25	November 6			
under Duck	April 5.		Name of Species	Avg. Date of Arrival	Avg. Date of Dep
moninen Mermonen	March 20.	November 12	Promp Threaker	April 16	
merican merganser	A TI T	Ostohen 12	Brown Inrasher	Morah 2	Noveml
urkey Vulture	April 1	October 18	Eastern Robin	March 8	Septemi
astern Red-Tailed Hawk	March 12	November 16	Wood Thrush	May 3	Septemi
Red-Shouldered Hawk	March 14	October 16	Fostern Hermit Thrush	April 10	Octor
Broadwinged Hawk		October 28	Olive Beeked Thrush	May 10	Septemt
wainson's Hawk	April 14	September 25	Fastern Rlushird	March 8	Octor
lough-Legged Hawk	(from north) October 16	March 25	Blue Gray Gnatestcher	April 15	Septemt
lough Howle	March 1	November 14	Calden Commad Kinglet	April 2	Octol
larsh Hawk	March 14	Oatabor 12	Golden-Growned Kinglet	April 10	Octol
Lastern Sparrow Hawk		October 12	Ruby-Crowned Kinglet	April 10	Octol
ling Rail	April 17	September 25	Cedar Waxwing	March 7	Octor
/irginia Rail	April 24	October 15	Migrant Shrike	March 28	Octor
merican Coot	March 25	November 20	Red-Eved Vireo		Septemi
lilldeer	March 10.	November 4	Black and White Warbler	April 27	Septem
marican Woodcock	April 9.	October 28	Tonnesson Warbler	May 10	Septemb
Vilcon's Snine	March 25	November 25	Nachalla Warbler	May 6	Octob
rison a Snipe	March 40	August 21	Nashville Warbler	May 0	Septemt
pland Plover	April 16	August 31	Eastern Yellow Warbler	May 3	Septemb
lastern Solitary Sandpiper	April 23.	October 10	Magnolia Warbler		
reater Yellowlegs	April 10.	September 25	Myrtle Warbler	April 20	Septemb
Jerring Gull	April 4	November 12	Quanhird	May 5	Septemi
Bonaparte's Gull	May 1	October 4	Crinnell's Water Thrush		Septemi
Common Tern	April 28.	September 20	Louisiana Water Thruch	ADT11 23	Septeme
Journing Dove	March 24	October 25	NY of the Well and With mark	Mott 7	Septemb
Collow Dillod Cushes	March 24 May 16	Sentember 25	A second se	Mov S.	Septemt
enow-Billed Cuckoo	May 16	September 20	American Redstart	May 8	Sontemt
Slack-Billed Cuckoo		September 22	D.I. U.L.	May	Septeme
Barn Owl	Partially migratory			Morab III	COUL
Castern Screech Owl	Permanent resident		Wantema Meedowelows	March 1Z	
Great Horned Owl	Permanent resident				
Northern Barred Owl			The A Win or Dis siching	March 17	ATOTCHA
ong-Eared Owl	Partially migratory		Owner and Owner a	NIG V III	CONTRACTOR CONTRA
theast Reved Owl	Pormanent moldont		D 1/1 0 /1	Mov	Depetha
hort-Eared Owl			Baltimore Oriole	Mily 1	Octob
astern Whip-poor-will	April 26	September 18	The second	March 21	and the second
lastern Nighthawk			Dense word Class also	March Idam	A COLORADO A COLORADO
Chimney Swift	April 18	September 16		0.75F11 111	and the second se
uby-Throated Hummingbird		October 1	Scarlet Tanager		Septemb
Castern Belted Kingfisher	March 27	November 18	Eastern Cardinal	Permanent resident	
Jorthann Eliskar	March 20	Oatohor 22	Deep Presented Creekeele	May 1	Septemb
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Red-Bellied Woodpecker			Indigo Bunting	May 6	Sentemt
ted-Headed Woodpecker		November 20	The second	May 16	LAND COLUMN
Cellow-Bellied Sapsucker	April 3	October 15	The second	Moren 24	CONTRACTOR DESIGNATION OF THE OWNER
Castern Hairy Woodpecker	Permanent resident		The second sec	NOVERDER Z	
Northern Downy Woodpecker	Permanent resident				
Arkansas Kinghird	May 8	Sentember 8	Northorn Pine Sickin	April 24	Octob
Northern Crested Elucatabor	May 8	September 15	Rortnern Fine Siskin	Permanent resident	
			Eastern Goldfinch	Istemulan minter minitert	
	March 18		Red Crossbill	Irregular winter visitant	
Sastern Wood Pewee	May 7	October 1	White-Winged Crossbill	Irregular winter visitant	Outob
Prairie Horned Lark	Partially migratory		The strength of the second sec	April 14	Cetor
free Swallow	April 5	October 1			
Bank Swallow	April 20.	September 21	Eastern Vesner Sparrow	April 2	Octob
	April 19		Fastern Lork Charrow	April 2	JU
	April 20		Slate-Colored Junco	Winter visitant	
			Slate-Colored Junco	October 24	Mar
	April 24		Tree Sparrow	October 24	Octob
urple Martin	April 8				
Northern Blue Jay					
Black-Capped Chickadee					
Fufted Titmouse					
White-Breasted Nuthatch	Permanent resident				
Brown Creeper					
Wostern House Wror	A mull 96	0.4.1	white-Inroated Sparrow	April 6 Morch 20	Octob
Fastore Wister West	April 26	October 5			
Lastern willter wren	ten winter resident) April 4	September 30		March 20 October 23	
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Short-Billed Jarsh Wren	May 6 May 1	September 25	Lapland Longspur	November 6	Mor

Page 24