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January, 1963

Number 1

ICE FISHING-MISSISSIPPI STYLE



Jumbo perch from "the world's best fishing hole," the Mississippi.

Jim Sherman Photo.

It's Cold, But Fun! Denny Rehder

1 a grub for bait, you patiently jig the lure up and down waiting through the ice. a strike.

you use the bare spoon not wanting to take time to get more c little opening in the ice.

Vinter fishing. I did at first, but last winter I saw it happening. around 250 perch. That's a lot of good eating. just to the other guy, which is usually the case when I go ld desert the warmth of home to go onto the ice to fish.

This ice-fishing is getting to be a real sport for many Iowans during the winter months. From the time the ice first covers the water until it succumbs to spring, you'll find anglers cutting holes here you are crouching over a six-inch hole on the broad expanse and wetting a line. Some local people in the northeast Iowa area he Mississippi River, hoping that by chance there will be fish of the Mississippi claim that more fishermen use the river in wine by. It's cold and you've just chopped a hole through fifteen ter than they do in summer. On almost any given morning you ies of ice. With a stubby little rod for tackle and a shiny spoon can drive along the Mississippi and see clusters of people out fishing

This fishing trip to the Mississippi was a real eye-opener in many nd here we go! Strike after strike, the fish just keep coming. ways. First, of course, was the number of people out fishing. There run out of mousies and minnows, and the fish are still biting. were clusters of fishermen dotting the river as far as you could see.

Then there was the fishing itself. We caught perch all day, but And the fish keep on coming. The whole Mississippi seems to I'd never seen perch like these-twelve to fourteen inches and they in endless conveyor belt pouring the entire population of fish out were coming so fast we had to give up trying to bait the hooks and just fished them bare. I even saw two fourteen-inch perch come ou may think this is fanciful and overplayed for a description out of the same hole at the same time. All told, our group caught

In addition to all these points, I enjoyed watching the fishermen ing, but to myself as well. And I used to wonder why anyone themselves and how they coped with the weather, transportation,

(Continued on page 6)

Iowa Conservationist

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COMMISSION MINUTES

Des Moines, Iowa December 5, 1962

GENERAL

The Superintendent of Engineering gave a report on survey work in Polk County for small lake sites.

Travel was authorized to the Upper Mississippi Recreation Committee Meeting at Winona, Minnesota, January 8, and to the Missouri River Interagency Committee Meeting at Colorado Springs, December 14.

A report was made by the Superintendent of Public Relations on sports show scheduling.

COUNTY CONSERVATION ACTIVITIES

Cherokee County received apthe Little Sioux River at a total ture. cost of \$1,000 for use as a fishing access area.

Howard County received approval for the acquisition of one acre of land as a gift from the Riceville Community School District for use as wildlife habitat and shelter area.

Lee County received approval for the acquisition of 11 acres of land at a cost of \$100 per acre tion. located adjacent to the city of Keokuk overlooking the Des Moines and Mississippi rivers for use as a roadside park, camping, picnicking, etc.

Polk County received approval for the acquisition of two acres of land located adjacent to Jester Park for a total cost of \$489.

FISH AND GAME

gave a report on the program of bluegills. The latter often overthe State Hygienic Laboratory at populate warm-water lakes, es-Iowa City.

Slough in Lucas County.

ranking list for Fish and Game and perhaps other preferred spe-Officer Candidates.

fishing, small game hunting, com- in producing good fishing.

bined hunting and fishing, and/or trapping license."

A resolution was passed requesting the Highway Commission to consider marking deer crossings on State Highways.

LANDS AND WATERS

The Commission approved an eligibility list for Lands and Waters Conservation Officer candidates.

The staff was directed to prepare appropriate legislation directed toward acquiring Federal Forest Lands in southeastern

The Commission approved 15 Concession Contracts for state parks.

A report was made on a proposed Ding Darling Memorial Shelter Building in Lake Darling State Park.

Approval was given for request for a permit to sand a beach on Ingham High Lake.

Approval was given for a permit for a bridge crossing on Highway 14 in Marion County on the Des Moines River.

Approval was given for a bridge permit at LeClaire on Interstate 80 in Scott County.

Approval was given for temporary road crossing of the Upper Iowa River near Decorah for highway construction.

Approval was given for the clearing of an area in Pilot Knob State Park for use in winter sports.

The Commission received a reproval for the acquisition of 14 port on legislation proposed for acres of land on the west bank of the coming session of the legisla-

POSSIBLE PREDATION **FACTOR**

It seems that Michigan state fishery workers have been making some interesting observations on bowfin (sometimes known as dogfish or grindle) in the course of studies of northern pike produc-

John E. Williams and Ray Fitch of the Michigan Conservation Department of the Hastings warmwater fishery research station, were credited with being strongly of the opinion that dogfish exercise a beneficial influence on fish populations. This is somewhat at variance with some long-held popular views. Their studies have brought The Chief of Fish and Game out that dogfish feed on young pecially in northern latitudes.

An easement was granted for Over-population by bluegills rean access roadway at Browns sults in an abundance of bluegills too small to interest anglers. It The Commission approved a also results in a shortage of bass cies as well. What's needed to pro-The Commission passed a de- duce good bluegill fishing is heavy partmental rule "any individual natural predation on them by who has lived in the state con- larger fish, or some means of artitinuously for 30 days shall be ficial control. In this connection, considered a resident of Iowa for the presence of dogfish in a lake the purpose of purchasing a sport may turn out to be a key factor

THE OFFICIAL RECORD FISH FOR 1962

Last spring we advised the people of the state that we were intelled ested in establishing a record list of big Iowa fish. We had heard many reports from anglers concerning their catches wondering has they compared with previous reports.

Every year in the January issue of the Conservationist we plan to list the record fish for the previous year as well as the standing record in each species. All those listed below are at present ti standing records for the various fishes, since 1962 was our first year at keeping records.

For those readers who may have caught fish larger than or records, we remind them that those listed are the only ones that m the necessary qualifications to be eligible as records.

The steps to submit your catch for a record are as follows: The fi must be taken by legal means from Iowa waters; fish must be mea ured from tip of snout to tip of tail (total length); must be weigh on scales legal for trade to within nearest ounce and weight mu be attested by signatures of two witnesses. Photo of angler and I fish should be submitted with the following data to the State Co servation Commission, Fish Records, East 7th and Court, Des Moine name and address of angler, date, name of stream or lake and com where caught, total length, weight, method of catch, and the sign tures and addresses of two witnesses to the weighing.

1962 RECORD FISH

| Species | Weight | Length | Where Caught | Date | Angler | |
|------------------------|--------------|----------------------|----------------------------|----------|-------------------------------------|--|
| Bluegill | 134 lb. | 11 in. | Lineville Gun Club Lake | Sept. 19 | Mrs. Grant Dillon, Lineville | |
| Bass (large- mouth) | 7 lb. 4 oz. | 22½ in. | Cold Springs Lake | April 29 | Clyde Hans Atlantic | |
| | 6 lb. 2 oz. | 22 in. | Browns Lake | Aug. 18 | Harold Hall Sioux City | |
| Carp | 20 lb. | $35 \frac{1}{2}$ in. | Buffalo Creek Jones Co. | Sept. 10 | Joe Kula, Anamosa | |
| | 10 lb. | 28 in. | Turkey Creek Cass Co. | April 29 | Geoffrey Scholl, Ani | |
| Channel Cat | 21 lb. | 33½ in. | Little Sioux River | May 7 | Mrs. Agnes Ament, Cherokee | |
| | 15 lb. 3 oz. | 31 in. | Rock Creek Lake | July 14 | Mrs. Jeanni Gurley, Cedar Raj | |
| Flathead Cat | 40 lb. | 40½ in. | Des Moines River | May 20 | Harold Steuerwald Boone | |
| | 14¼ lb. | 32 in. | Raccoon River | May 6 | Deane Nut Lake City | |
| Northern Pike | 10 lb. 5 oz. | 32 in. | West Okoboji | Aug. 19 | Gilbert Gresslin, Spencer | |
| Sheepshead. | 46 lb. | 38½ in. | Spirit Lake | Oct. 11 | R. L. Farri Clarion | |
| Walleye | | | Cedar River | Oct. 26 | Chas. Such Cedar Ra | |

PHEASANTS DURING THE YEAR

January-After a weekend snow storm many pheasants are found to be starving.

February-Pheasants still starving.

March-Conservation Commission criticized for not feeding pheasants.

April-Almost all pheasants now starved with the exception of several thousands killed on the highways.

May-Farmers report serious crop destruction by excessive number of pheasants. Groups agitate for shooting hens in fall.

June-Farmers report pheasant hatch poorest in history. Groups agitate for short season in fall. July-Pheasants seem to be disappearing. Groups agitate no shooting of hens.

August-Dry season with young pheasants reported (or dying. Groups agitate for duced bag limit.

September-Pheasants now d of strange disease. Groups tate for completely closed son.

October-Pheasant season 0 and enjoys one of its best yo November-Conservation Com sion criticized for short se and reduced bag limits.

December-First reports of ph ant starvation. Commis roundly criticized for not 1 ing pheasants.-Reprinted South Dakota Conservation gest.



Young Red Fox.

Jim Sherman Photo.

IOWA MAMMALS

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Eldie Mustard Game Biologist

RED FOX

Vulpes fulva

itification: Red foxes range in ngth from 36 to 42 inches cluding the tail of 13 to 15 ches. Weights vary from 6 to 5 pounds with dog foxes nales) larger than vixens (feales). Red foxes can be disnguished from other fox and byote by its white-tipped tail.

ge: Throughout Iowa.

litat: Prefers dry, broken, pen upland areas with patches cover, however, may be found nywhere in pastures, cornfields ncerows, draws, and edges of arshy areas.

roduction: One litter of 1 to), usually 4 to 5, pups per year ollowing a gestation period of bout 52 days. Mating occurs rimarily in January-February. ith young generally born in larch or April. Female preares den which she may dig or lean up one previously used by or other animals. Ground ens are most common and may ave a hole up to 75 feet long. he male feeds the vixen and elps care for young which renain with parents through sumher while learning to hunt.

bits: The red fox is almost omivorous in its feeding habits nd eats a great variety of nimal and vegetable matter. mong items commonly used are abbits, hares, mice and other odents, insects, birds, turtles, nakes, carrion, and fruits. fuch of the poultry comes to he red fox in the form of dead irds which have died and armers have thrown in the elds to dispose of them. The en is not used extensively in he winter for shelter and the ed fox commonly sleeps in the

open. The ancient adage, "Smart as a Fox," probably originates from the animal's ability to outwit dogs and man when pursued. The long, flowing tail is used as a foil when dog foxes fight for vixens and is also used as a cover for warmth when the animal is resting.

Status: One of the most cussed and discussed animals in Iowa, the red fox has a host of enemies and friends. He is blamed almost universally by sportsmen for low pheasant, rabbit and quail populations even though studies by game biologists have found that the fox has little effect on established game populations even when he uses them extensively for food. Rather than predation, biologists have determined that changing habitat, lack of cover, reproduction failure, or combinations of these are generally the underlying cause of low game populations. Within recent years fox hunting with high-powered rifles has become a major winter sport after other hunting seasons have closed. The ardent fox hunter literally sees red when someone tells him they have dug up a den and killed the vixen and pups because, to the fox hunter, the fox deserves a much more sporting chance. It is almost a cardinal sin to shoot a fox in front of foxhounds because a live fox can again furnish sport and the excitement of the chase whereas a dead fox is gone forever. Rabies outbreaks usually occur in foxes when populations are high and the disease may practically eliminate all foxes in a given area. Fox populations, for their own good, must be Habitat: Brushy, woodland areas. 11:30 a.m. 10° ping. Iowa presently has a continuous open season. Fox fur, when fashions dictate, is used for trimming, neck pieces, and jackets.

COYOTE

Canis latrans

Identification: Adults from 44 to 54 inches including tail of 11 to 16 inches long. Weigh 20 to 50 pounds with females smaller than males. Coyote is about size of a collie dog. Carries tail Habits: Presence of the gray fox down when running.

Range: Throughout Iowa.

Habitat: May be found anywhere, but prefers irregular terrain with open areas, brush, and woodlands interspersed.

Reproduction: One litter born per year in spring after a gestation period of 60 to 63 days. Litter size of 5 to 10 with usually about 7 pups. Male helps female rear pups which leave adults in fall to seek their own home ranges. Some coyotes mate for life.

labits: Coyotes may either dig a den, use a natural den, or an enlarged hole of another animal as their home. The coyote is nearly omnivorous. About threefourths of its food consists of rodents and rabbits with the remainder composed of carrion and a variety of vegetable matter. The coyote, because of its high rate of reproduction, adaptability, and cunning, continues to survive despite man's often erroneous attempts to exterminate it.

Status: Much sought after by hunters who derive a great amount of recreation in trying to spot and outwit the coyote. Some animals are trapped with the coarse fur used primarily for trimming garments. Coyotes sometimes conflict with man's interests and kill small livestock and poultry. In these instances attempts are usually made to eliminate the coyote doing the damage. Widespread trapping and poisoning have been used in attempts to exterminate them, but in some areas ranchers have found that after the covotes are gone the rodents, which the coyotes formerly used for food and thus partially controlled, caused much more damage than the coyotes. Wholesale efforts to exterminate coyotes are not usually in the best public inter- pounds. est and should not be attempted. Iowa has a continuous open season on coyotes.

GRAY FOX (Tree Fox) Urocyon cinereoargenteus

Identification: Length ranges from 36 to 44 inches with a 12 to 14 inch tail. Weights vary from 7 to 13 pounds and males are slightly larger. Blackish stripe down tail with rusty feet.

Range: Throughout Iowa.

kept down by hunting and trap- Reproduction: Mating usually ocden is in a hollow log or tree weighed one and one-half pounds.

in a rock pile usually in wooded area. They are cared for by both parents until weaning when the male usually leaves the family. The female stays with her pups until fall when they disband.

in an area may be unsuspected due to its nocturnal and rather solitary habits. The gray fox is fairly adept at climbing trees and may do so to escape dogs or on other occasions. It will also hide in foliage or even jump from limb to limb. Due to its cat-like appearance and its treeclimbing ability, some amateur naturalists believe the gray fox is a member of the cat family. This is not true, he is a member of the dog family. The gray fox is omnivorous as is the red fox, but prefers animal matter. Food items eaten by the gray fox include: rabbits, mice, other small mammals, grasshoppers and assorted insects, birds, reptiles, carrion, and fruit and other vegetable matter. Individuals often have several den sites in winter which they use for rest and sleep.

Status: The gray fox is not the sporting animal that the red fox is because of its nocturnal habits and the fact that it goes to a den too readily. Trappers are usually much more successful in taking the gray fox than are hunters. Pelts from gray fox are used for trim and collars. Iowa has a continuous open season. Although less well known, the gray fox has essentially the same relationship to man and his interest as the red fox.

SPEAKING OF THE WEATHER

In the thin air of the ionosphere winds have been clocked at 1,100 miles per hour!

The record for twenty-four hours of rainfall goes to Baquio, Philippines, on July 14, 1911, with 46 inches of rain.

The largest known meteorite is in South West Africa; known as the Hoba West, it weighs 110,000

The largest known meteorite in the United States is on exhibit at the Hayden Planetarium. It fell in Oregon and weighs 30,800 pounds.

If you think you know what fluctuating temperatures are like, you should have been in Rapid City, South Dakota, January 22, 1943.

11:45 a.m. 35° 6:00 a.m. -4° 9:20 a.m. 54° 12:30 p.m. 16° 10:30 a.m. 12° 4:00 p.m. 56° 11:00 a.m. 55° 5:00 p.m. 8°

The largest known single hailcurs in February-March with stone (not an aggregate of many the annual litter of 1 to 7, com- hailstones) fell July 6, 1928, at monly 4, born after a gestation Potter, Nebraska. It was 17 period of about 63 days. The inches in circumference and

WHAT HAPPENS TO PLANTED PINE AFTER 20 YEARS?

in this aspect.

Although older pine plantations disease. least a 20-year period. One such ing native to Iowa.

planted in 1939.

products removed in 1954 and 1958 gentle southern exposure. The thinnings combined with the vol- trees were hand-planted at a spacume of trees growing on the five- ing of 6 x 6 feet. The red pine acre red pine planting after the showed itself to be readily adaptacre. At the current price of \$6 Iowa and good future performance eastern Iowa, the volume growth white pine have become species acre or an annual return of \$15.60 in the last ten years. per acre. This, remember, was on land that was not feasible to use any longer for row crops.

The original plantings were made on old field sites that had been abandoned because of low productivity. Four species were planted, namely: red, jack, white, and western yellow pines. The pines, except for the western yellow, have all shown great promise

C. R. Witmer, Area Forester of becoming a valuable crop. The One question frequently asked western yellow pine has been of Commission foresters is, "What heavily attacked by a needle cast can I expect in dollar return per which destroys the food producacre from planted pines?" Most tion of the tree and causes it to people who are considering tree degenerate. The high rainfall and planting are naturally interested humidity of this part of the state is optimum for the growth of this

are not numerous in Iowa, there The remaining three pines are are enough to give us a picture of all quite far from their native habwhat planted pines will do over at itat with only the white pine be-

plantation is on the Shimek State Studies were made on a red pine Forest in southeastern Iowa plantation which covers five acres. It was planted in 1939 on an old Results show that the volume of field of Weller silt loam with a 1958 cut was equal to 52 tons per able to conditions in southeastern per ton at the pulpmill in south- was expected. The red pine and in 20 years would equal \$312 per used extensively for reforestation

> Not knowing the potential of red pine when the plantings were started or the time required to reach maturity, it was decided to establish test plots in the planting area. Normally, a thinning system is adapted so production will be geared to a specific product. The testing system was set up so as to use a number of thinning (Continued on page 8)

Lookin' for a Home

With some people clucking over their bird feeders, it seems only appropriate at this time of year to take a gander at those persons who are building bird houses for next spring. Judging from the numerous inquiries received at the office, a lot of people are spending these winter months building bird houses to pass the time.

As an aid to you construction engineers in miniature, we present below a list of accepted dimensions for most of our common birdsat least those who are interested in letting someone else take the trouble of setting up housekeeping for them.

| Species | Floor in Inches | Depth in Inches | Entrance Diameter in Inches | Center of Entrance Above Floor in Inches | Height Above Ground in Feet |
|---|--------------------|--------------------|-----------------------------------|--|--------------------------------------|
| House wren | 4x4 | 5-7 | 1* | 3½x5½ | 5-10 |
| Carolina wren, | T.A.A. | | | 1000 0 0 000 | |
| Bewick's wren | 4x4 | 5-7 | 11/8-13/8 11/8 11/8 | 31/2-51/2 | 5-10 |
| Prothonotary warbler. | 4x4 | 8-10 | 11/8 | 6-8 6-8 | 3-5 |
| Chickadee | 4x4 | 8-10 | 11/8 | 6-8 | 5-15 |
| Nuthatch, | | | | | |
| Downy woodpecker, Titmice | 4x4 | 8-10 | 11/4 | 6-8 | 5-15 |
| Tree swallow, Violet-green swallow. | | 7-9 | 11/2 | 51/2-71/4 | 4-15 |
| Crested flycatcher, Ash- throated flycatcher | | 8-10 | 2 | 6-8 | 5-15 |
| Hairy woodpecker, Golden-fronted woodpecker | 6x6 | 13-15 | 134-2 | 9-12 | 8-20 |
| Red-headed woodpecker | 7x7 | 16-18 | 2-21/2 | 12-14 | 12-20 |
| Flickers, Saw-whet owls | | 16-18 | 3 | 12-14 | 12-20 |
| Screech owl, Sparrow hawk | | 13-15 | 314 | 9-12 | 12-20 |
| Martin | 6x6 | 6 | 21/2 | 21/4 | 15-25 |

^{*}Or may use rectangular slot one inch high, three inches long. Woodpeckers, owls, sparrow hawks need two inches of wood chips or sawdust on floor.



Tufted Titmouse.

Jim Sherman I's

OUTDOOR FUN INDOORS

Denny Rehder

out and try to scare up a fox this afternoon." (It's -8°, the wind is blowing and snow is forecast.)

"Whaddaya mean it's too cold? Look in your billfold; there's a fishing license and a hunting license-you're what's known as a the sparrows. Don't worry about sportsman." (It's much nicer to sit here with feet on coffee table reading through the catalog and dreaming of that seven-pound bass from last summer's fishing.)

"You say that right now you're interested in having your outdoor fun indoors? All right, I'll be

right over!"

Outdoor fun indoors? How so? It's easy; come on down to the landed. He'll take a sunflow basement and we'll get started, seed and hide it in the bark We'll knock a bird feeder to- a tree close by. He tries to ca gether and you can sit inside, look away as much as he can to out the window, and watch the later. Chickadees will do the sa birds come to feed.

Let's take that piece of plywood you've got there and put a little fence around it to keep the feed from blowing off. Then we'll tack it to the window sill, throw in some sunflower seed and small grain from the hardware store and watch for the birds.

The south side of the house is best. It's sheltered from the wind, in the sunshine, and close to those honeysuckle bushes. The birds like some bushes or shrubs next to the feeder for protection and a place to perch. If we put it right outside the window it will be high chickadees, nuthatch, woodpe enough to discourage cats and ers, brown creepers, blue J

and see what happens.

er-a squirrel. Notice how he row, and starling.

stuffs the food away; he has feeling that this is not quite no ural.

There you go! A blue jay h "Hey, Coff, what say we go discovered the program and h a little concerned about that squ rel getting all the goodies. He bug that squirrel until it decid it's had enough and leaves.

> There he goes . . , and look them, they're a good sign, Tr always find feed first and attra the other birds in the neighb hood. They are real clowns, me fun to watch than most of other birds. Notice how they fig among themselves even thou there's more feed than they co ever handle.

Watch that nuthatch that J thing.

If you rig up some wide-m hardware cloth and place suet hind it, you'll attract woodpeck The downy, hairy, and so times the red-headed woodpec are visitors. Flickers show many times for suet.

Some fruit placed on the fee will attract the cedar waxwil They're roamers and may visit your feeder a couple of ti during the winter.

You can expect to see cardin cedar waxwings, evening g Finished? Then let's go inside beaks, goldfinches, slate-cole juncos, tree sparrows, and Well, there's your first custom- course the pigeon, English s



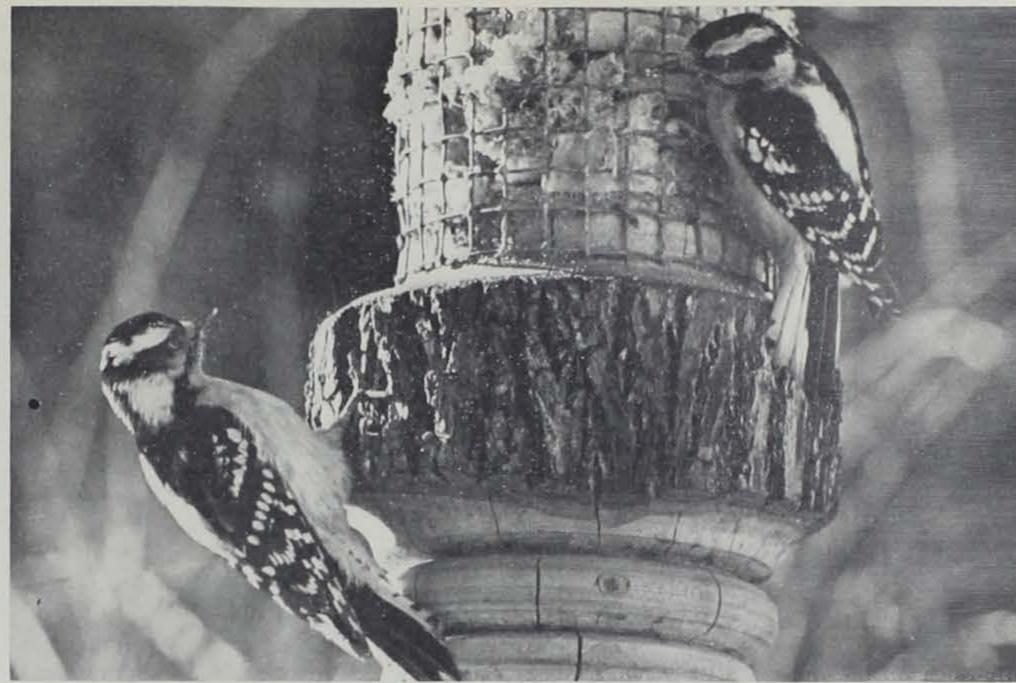
White-Breasted Nuthatch.

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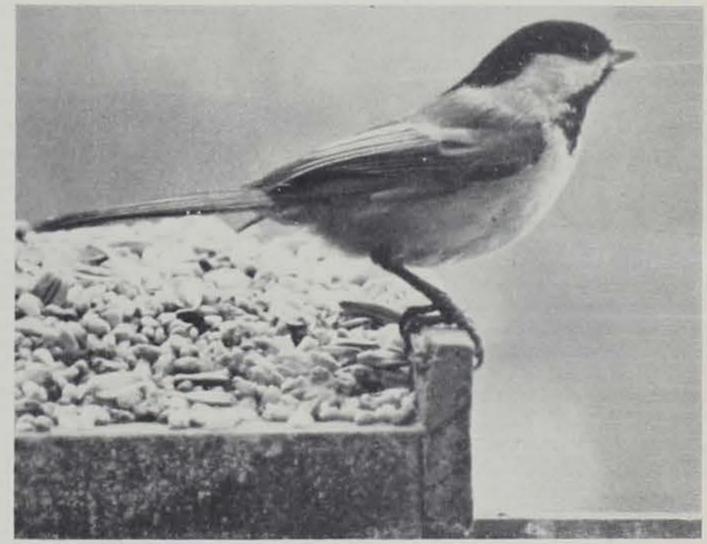
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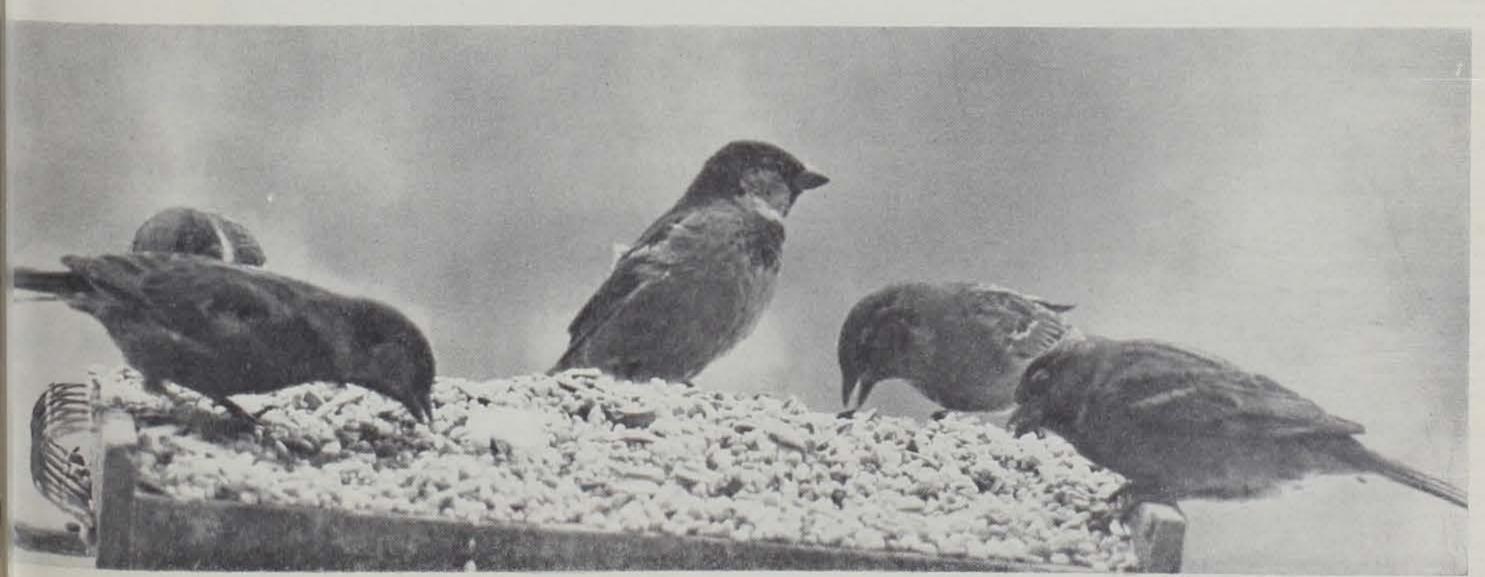
Downy Woodpeckers.



Slate-Colored Junco.



Black-Capped Chickadee.



. . . and Sparrows!

Photos by Jim Sherman.

ICE-FISHING

(Continued from page 1)

and the mechanics of ice-fishing. Take the weather. Most of the people on the ice were dressed warmly in insulated underwear, warm outer clothing, and insulated boots. Some wore gloves, although they usually came off when the fish were really biting. There were several windbreaks or shelters of some kind or another although the traditional ice shanty was not common. Little pop tents or even corrugated cardboard served to shelter the fisherman. Hand warmers or little stoves helped keep the angler warm and comfortable.

There were some eye-catching rigs for getting around on the ice. One fellow had a panel truck with chains on the tires. Inside he had a place to sit and fish out the back, a stove for heating coffee, and for adding a little heat to the interior. He really had the system.

Digging through the ice can be tiring with a regular spud or ice chisel. Some used an auger that worked like an oversize brace. Others went further and mounted a motor on their augers to drill through the ice in jig time.

Northerns, walleye, bass, and a host of panfish are all caught regularly through the ice. The fishing regulations for the Mississippi and other boundary waters are liberal. There is a continuous open season on all fish which enjoy a season in the state. There are no catch or possession limits except on largemouth and smallmouth bass, catch 10 with possession at 20; walleye and sauger, catch 10 with possession at 20; and northern catch, 5 with possession at 10. There are lots of fish-an understatement when you watch the numbers of fish taken through the ice and then during the following summer.

Called by many the "world's greatest fishin' hole," the Mississippi River is certainly a producer. Catching a mess of fish through the ice is real fishing, real sport, and real eating. The taste of those perch is still fresh in mind, so it's back again this winter for some of that fine ice-fishing, Mississippi style.

The African Gray Parrot is famous as a talking bird. In captivity, this bird has been known to survive as long as eighty years.

A frog's tongue is fastened to the front of his mouth. This oddity gives him the advantage of added length.

The red fox eats small amounts of grass quite regularly. It is also fond of fruits including black-berries, raspberries, strawberries, service berries, blueberries, wild cherries, apples and persimmons.



Good ice transportation. Those doors are open for an obvious reason—to get through quickly if the car breaks through the ice.



How's this for comfort? Complete with a little stove for coffee and heat, this outfit offers good protection.



becor

masery

Had wit

prince of

Station

This home-made "spudder" takes the muscle out of making many holes for fishing.



Some fellows bring along all the comforts of home when they head onto the Ice.

Photos by Jim Sherma

CONSERVATION NEEDS EDUCATION

Carol Buckmann

ng familiar with nature and standing the responsibilities ed preserving our natural enment are imperative before ne becomes deeply concerned conservation. Becoming acted with the world around omes through education, for ance of nature's laws is diresponsible for their vi-

e way to become familiar Iowa's wild animals is a trip e Wildlife Research and Ex-Station near Boone. At the it area, all the wild animals rame birds native to Iowa are isplay. Paid solely from lifees, this newly remodeled in had its official opening in by pring of 1961.

itors are welcome to browse 10 a.m. until sunset, April gh November. Guides are to answer questions and can be arranged for vargroups upon request.

other educational facility is Hunter Safety Program. A rative agreement between onservation Commission and program provides firearm ng to all interested people, forestry education. is no charge for the intion. This service is provided portsmen and other civiced individuals strictly on a tary basis.

nter Safety teaches safe hanof firearms and archery ment, safe hunting practices, ct of game laws and progood outdoor manners. es or groups are usually ored as a civic or community ty by public-spirited clubs dividuals.

cal conservation officers are tey men in their respective ories and help arrange for led instructors to present intion in a minimum of four . Many schools arrange for raining as an extra-curricur club activity.

ing the line of fire preven-Smokey Bear's suit is proto local volunteer firemen use in Iowa schools upon uled notice. The school fire ntion program is handled by firemen, the fire prevention e fall and winter.

restry merit badge examin- trail corresponding with the plants. and also conduct forest and e programs at various scout other youth group camps. state forest nursery at Ames en to the public week days groups wishing to visit the ry should make prior arments with the nursery sutendent.

Holt State Forest, north-



School children on tour form a regular part of the program.

of the Forest Department will be Cabin, site of the Spirit Lake Mas-National Rifle Association, foot fire tower and lumber stor- Mills; restored mill at Wild Cat age sheds in conjunction with Den.

sion Forestry Section cooperating. tion picture. Although the pri- hand is the key to the broad County Agricultural tours are mary emphasis is on fisheries, concepts in this field of conservapractices on crop land, pasture are also included. land and forest land.

from the commission library to ery since there are facilities for schools upon request and give slides but it's being expanded to intalks on career days. There are clude all the main hatchery instal-125 films in the library relating to lations. various phases of conservation with current listings being available from the Public Relations Section. Persons ordering films discuss their program with local conservation officers who obtain the appropriate film or films.

Along the parks line, at the their magazine. er or the district forester of Ledges State Park, self-guiding onservation Commission. This nature trails are set up with am is seasonal and for most markers at different plant varils' purposes it is scheduled eties to aid identification. Waubonsie and Fort Defiance have st district foresters serve pamphlets with numbers on the

> brook, Dolliver and Ahquabi state parks are available by reservation through the park officer. Park officers conduct nature tours and studies in most of the parks on request.

of Boone, is used as a stu- the prairie areas. Other historical sal. During the summer months, only to feed her young.

dent training area by the Forestry park areas include Fort Atkinson; Department of Iowa State Univer- Plum Grove, home of Iowa's first sity. It is anticipated that students territorial governor; Abby Sharp using new facilities such as a 100 sacre; the mill-site at Lennon

At the Spirit Lake Hatchery, At various saw mill locations, scheduled groups get a briefing in once yearly a saw mill operation the conference room with slides school is held by the State Exten- and a short discussion on how the sion Forester in conjunction with hatchery fits into the whole recrethe District Forester of the Con- ational picture. Then the group servation Commission. Forestry goes through the hatchery and field days are held periodically hears a talk tieing the fish hatchwith the Iowa Forestry Industry, ery program into the broad field of ation of conservation, it is impor-American Forest Products Indus- conservation and the part it con- tant to understand its principles. tries and Conservation Commis- tributes to the state's conserva- Acquiring this understanding firstcarried on to show conservation basic fish and game management tion.

Such a tour program was first District foresters provide films started at the Spirit Lake Hatch-

> Another educational feature is the Conservationist magazine available for one dollar for 24 charge to schools, state officials and county boards of education and other states in exchange for

The Public Relations Section National Park, Washington. distributes over 70 various pamphlets and folders relating to as teaching aids. News releases grees! are sent each week to radio and For organized groups such as TV stations as well as newspapers scouts, group camps in Spring- while officers and other employees are available for public speaking.

> A traveling wildlife exhibit has rain. been touring Iowa since 1948 and is seen by about 300,000 people

the exhibit is shown at fairs, celebrations and other events.

Live mammals, birds, fish, reptiles and other animals are included in the exhibit. When in use, panels on the sides of the trailer are raised so the animals may be seen and shaded. State conservation officers are with the exhibit to answer questions and distribute literature concerning Iowa's recreational opportunities. Other exhibits include fairs and sports shows, and the Iowa State

Each summer, three hours of oncampus or undergraduate credit may be earned at the Teachers Conservation Camp held at Springbrook State Park group camp or six hours of credit may be earned by staying six weeks for both three-week courses. Sponsored by the State Conservation Commission, State College of Iowa and the Department of Public Instruction, the camp is offered to teachers or college students planning to teach after graduation.

During one three-week course, students travel approximately 1,000 miles to various areas to view conservation in action. Much of the work done is in the field where students learn from direct experiences guided by able resource people.

The total cost is \$104.64 for undergraduates and \$110.64 for graduates with scholarships available in many counties to teachers and students wishing to attend.

In order to gain a full appreci-

The record for rainfall in a single minute was set at Unionville, Maryland, on July 4, 1956, with 1.23 inches of rain.

The lowest temperature ever recorded comes from both Oimekon and Verkoyansk in Russia—a minus 90 degrees.

Snow slides or avalanches have monthly issues. It's sent free of been clocked at speeds up to 300 miles per hour.

> More than 83 feet of snow fell during one season at Paradise Ranger Station in Mt. Rainier

The highest temperature ever phases of conservation upon re- recorded comes from Azizia, Triquest. Many are used by schools politania, North Africa-136 de-

> The longest dry spell in the United States was at Bagdad, California, from 1912-14 with 767 consecutive days with no drop of

After she gives birth to a litter each year. The recently remod- of rabbits, the mother cottontail eled truck starts out in May visit- spends most of her time a short Of historical interest, there are ing schools until summer dismis- distance from the nest, returning

FUR

David H. Thompson

Man is the only warm-blooded creature that is able to survive freezing temperatures without growing his own coat of fur or feathers. Far back in prehistoric times he learned to live in regions with cold winters by wrapping himself in the skins of animals. Strictly speaking, we do not endure the cold. Like the Eskimo inside his suit of fur, we really live in a small tropical climate that we carry around with us.

Mammals are commonly covered with two types of hair, a thick, soft underfur and a layer of longer, coarser guard hair which forms a protective outer coat. Air trapped among the fibers of the dense underfur insulates the skin from winter cold and holds in the body heat. For example, the Arctic fox lives on the wind-swept Greenland icecap, often at 60 degrees below zero Fahrenheit, without affecting its internal temperature.

The guard hair is somewhat oily and readily sheds water. In our local muskrat, mink and beaver, which swim long distances under water, even under ice in winter, the underfur and skin remain warm and dry. Animals living in warm climates have mostly guard hair with scant underfur. The opposite is the case in cold climates. Our woodchucks and ground squirrels, which burrow down below the frost line and become cold-blooded during the winter months, need little insulation and have only coarse hair.

molted, and then renewed at least Deer kills by car have been inonce each year. Among the com- creasing right along with our inmercial fur-bearers which are creasing deer herd. Most of the trapped or reared on fur farms kills occur during the late fall and for their valuable skins there is a winter when the rutting season is best. The shedding of the under- tact with a deer are early morn- remember the sound of that im- are many plantations now gr fur begins in spring and continues ing and late evening. thoughout the summer. At this same time, the old guard hairs gradually drop out and are replaced by new ones, giving a thin, sleek summer coat. With the onset of cold weather, the new underfur develops and the pigment granules stored in each hair root migrate up into the hair shaft. When the underfur is fully grown, the guard hair stands on end, the pelt is said to be prime and ready to be harvested. All of the hairs are now dead and from this time on the fur begins to fade and fray and lose value.

summer vacations in northern seems to be the description of the sippi. Wisconsin or Michigan grows a protective coverings of the "holy white furry coat in autumn, then of holies" in the portable taberchanges back to a brown one in nacle as recorded in the Book of few of our weasels turn from More than gold, timber or rich go, catapulting himself aloft. the spring. Likewise, in fall, a Exodus of the Old Testament. brown to white except for the soil, the demand for fur was reblack tips of their tails. Then their sponsible for the opening up of the longest but narrowest wing of skins are sold as ermine. Farther interior of the North American any bird. His wingspread meas-



HE GOT HIS DEER!

Denny Rehder

car! Obvious as this may seem, cover close by, it pays to slow residents of county homes and down and exercise some caution. other public institutions have been Some areas are well-known as getting some mighty good eating deer crossings and it only seems thanks to a number of unfortu- logical to be careful when crossnate Iowa motorists.

graph had had his new car less one person who remarked to a than a week when he met this friend as they were driving, "You buck. Over 680 drivers like him never see deer in this country, no found out last year that the inter- cover." ception of a deer by a car results in an average \$150 damage per car. This adds up to a \$100,000 A mammal's hair grows, is loss to some Iowa motorists.

There isn't really a lot you can do to avoid meeting up with a lision. When driving in known it's blocking traffic.

farther south, none of them. It sought most of all. Their fur

north, all of them turn white and, continent. Beaver pelts were ures eleven feet four inches.

Deer cannot be legally taken by deer country with timber or other ing one of these favorite runs.

The poor fellow in the photo- But, don't take the attitude of

before he hit one. Auto kills have been protected and fertility been reported from every county in the state.

hear the sound of folding metal on the drive from Farmington and shattering glass from the time Fort Madison on Iowa Highw he met a deer in northeast Iowa. No. 2. "It's frightening; I never fail to This is only one stand, but th pact when I get into the car to ing in Iowa which will follow s take a trip."

wandering deer. They many times Conservation Officer to remove become an early product. jump onto the roadway directly the deer. It is unlawful to trans- market did not exist when in front of your car, making it port the deer yourself, except to virtually impossible to avoid a col- get it to the side of the road if

has been learned that with 18 made the felt for the tall beaver hours of artificial illumination per hats so popular both here and day they stay brown the year abroad. Chicago got its start as around. With only nine hours of a fur-trading post because the light they turn white, even in sum- portage at this point was a con- to help them swallow. The necting link between the Great balls are pulled down and the Fur has played a long and fasci- Lakes-St. Lawrence water route forced on down the throat. The big brown snowshoe hare nating part in human history. Its and the rivers that stretch westwhich we sometimes see on our first mention as an ornament ward to and beyond the Missis-

> The snowflea travels by using the range of the human ear. his tail as a springboard. He bends his body then suddenly lets

The wandering albatross has the

WHAT HAPPENS-

(Continued from page 4) systems to see the effect on rate of growth and products product

In 1954, when the trees were years old, five one-quarter acre plots were established. Four plot were to be thinned and the fifth retained as a check plot. For various extremes of thinnings were initiated as follows: removing ternate rows of trees, removing every fourth row, selecting true for removal by stem spacing & lecting trees for removal by crow ume 22 spacing. After this first cuttly was made the remaining tree were pruned to optimum height The primary product obtained the 1954 thinnings was fence post which were treated for use on the state forest.

In 1958, when the plantation was 20 years old, a second thinnly was made and again data height, diameter, spacing, tre per plot, value of products, and insects and disease present we recorded as in 1954. The plan were again treated by various thinning methods and the primar product removed was pulpwo Selected good quality trees we pruned to one full 16 foot log can be assumed from current dal that this plantation is just read ing its stage of most rapid grow Studies and yields records will continued as periodic cuts made in the stand until one l rotation has been reached.

This area has done much in years it has been established. area abandoned has been return to crop productivity, because ac He drove less than two miles ally trees are a crop. The soil! built, a wildlife habitat has be established, and a beautiful sta I heard a fellow say he still can of pines is present for all to

ilar management systems. In If you do hit a deer, notify a cent years, Christmas trees h red pine plantation was esl lished.

Your Commission foresters available to give free advice assistance to landowners who interested in tree planting or n aging their timberlands.

Frogs and toads use their

The cries made by bats to rect them in flight vibrate 50,000 cycles per second, far a

The flying squirrel doesn't but glides. Glides of up to feet have been recorded.

The average weight of a grown buffalo bull is around pounds.