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December, 1959

Number 12

Bunnies Abundant–Season Liberal

FORESTRY-ITS MEANING Part I

What Is Forestry?

This oft used and seldom understood term has a myriad of meanings. "Forestry" is the scientific management of woodlands for continuous production of goods and services. One can call it a science, an art, a business and a public policy occupied with continuous production and management of trees on suitable lands and promotion of their beneficial use for mankind. If you doubt the blessings of a tree, picture what our recreation areas would be without them.

Important in Iowa?



By Paul D. Kline Game Biologist

Harken ye bunny hunters, pursuers of the fluffy tails: The season is on! Gather your beagles, oil those boots, and pray for snow. Rabbits are numerous, the season liberal.

If the 68 July roadside counts conducted by conservation officers and biologists are indicative (we believe they are) there are almost as many cottontails available this season as last. And, the counts show more cottontails in Iowa than during each of eight seasons immediately prior to 1958-59. Indices of rabbits seen per ten miles of survey route were 6.2 as compared to 6.9 in 1958. For 1957 the index was 4.9. Both the 1957-58 and 1958-59 seasons presented bunny hunters with top-notch sport. Of course some areas in Iowa have more rabbits than others. If you are a pheasant hunter you may go north, but if cottontails are your desire, better go south because the primary rabbit range lies in southern Iowa. Take the southern third of Iowa; eliminate the Mississippi River counties, and you will have located much of our best cottontail range. For example, the rabbit index for part of southern Iowa was 10.9 in 1959. Northeast Iowa produced an index of 1.5; and north central Iowa gave an index of 3.6. Go south, young man! But don't be shy and do your rabbit hunting this year. Procrastinators will be lost because, if history repeats (and it almost always does), we will have lean years again. It's impossible to say when the decline will start, but it could be next season. We can't stockpile them this season, hoping for more next season. Many hunters reminisce of rabbit hunting during the thirties. Rabbits were super-abundant during some years at that time, but they crashed. Skinny years followed abundance and hunting did not cause the crash; disease did. Hunting is one of the lesser controls of rabbit abundance. A much more important control is (Continued on page 191)

act as a Those who are interested in the wise use of land think it is. About one-seventh of the state is forested; the yield from these lands is about 110 million board feet per year, but they have been judged capable of producing two to three imes this amount if managed scientifically.

Is the Conservation Department the Only Agency Concerned with Forestry in Iowa?

No, although the Department is lesignated to carry on the prorram with individual landowners und timber operators, a number of tate and federal agencies have a ulpful interest in furthering forstry. Iowa State University, its xtension service and particularly he extension forester carry on ducational work. The U.S. Deartment of Agriculture, through ts Forest Service and Soil Conervation Service, has responsibilties; and the Agricultural Stabiliation and Conservation office has n interest in forestry because it ncourages conservation practices n forest land.

The Department began a foresty program by employing a State orester in 1937. Funds for this vork are from two sources as folows: 30 per cent from federal rembursement by the U.S. Forest ervice and 70 per cent from genral revenue funds of the state.

Jim Sherman Photo For real sport leave the rifle and shotgun at home. Picking off a bounding "fuzz-tail" with this equipment marks you as an archer to be reckoned with.

More Than Just Boards

Forests serve man in many ways besides producing timber. The most noticeable can be seen in the clear water that flows from well forested areas; trees reduce the amount of run-off and erosion by breaking the impact of individual rain drops and allowing them to be absorbed into the soil kept porous by decaying leaves and roots. It slows down the melting of snow, making it gradual and thus reduces flooding. Forests provide scenic beauty and increase recreational use. They provide a crop of wood from land too poor or hilly to raise food crops or pas-

ture. Further, forests provide beneficial environment for many species of wildlife.

Hardly Small Potatoes

The Conservation Department owns about 14,000 acres of timber land which serves as demonstrations of forest management, tree planting and the production of timber crops. These lands are open to hunting and fishing. Plans are now being made to incorporate picnicking, camping, nature trails and other outdoor recreational activities on some of these areas.

The Department's fire program includes the protection of forests (Continued on page 187)

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IOWA CONSERVATIONIST

Iowa Conservationist

Published Monthly by the STATE CONSERVATION COMMISSION East 7th and Court, Des Moines, Iowa (No Rights Reserved) HERSCHEL C. LOVELESS, Governor GLEN G. POWERS, Acting Director MALCOLM K. JOHNSON, Editor STAN WIDNEY, Associate Editor

MEMBERS OF THE COMMISS GEORGE V. JECK, ChairmanSpir CLYDE M. FRUDDEN, Vice Chairma	it Lake
MRS. JOHN CRABB	amaica Moines Rapids unction

Two Years \$1.00

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vation Commission, East Seventh Street and Court Avenue, Des Moines 19, Iowa Send cash, check or money order.

RABIES AND ROVER By Eldie W. Mustard Game Biologist

Mad dog !! Mad dog !! Through the ages, from antiquity to present day, this cry has struck terror into the hearts of men. This was the sentinel-cry which signaled mothers to snatch their offspring from play and take them to safety. To the ancients and to the moderns, the cry of mad dog meant and means only one thing-rabies.

Rabies is a disease, caused by a minute microorganism (a virus), which affects the central nervous system, causing paralysis and eventual death to the victim. Once the symptoms of the disease are visible nothing can be done to save the victim, whether it be animal or man. The virus causing the disease is usually transmitted to the victim through the bite of a rabid animal. Any animal suffering from the disease can transmit rabies. Rabies has been reported in man. dog, skunk, fox, cat, cow, horse, hog, sheep, bat, deer, badger, squirrel, gopher, raccoon, owl, pigeon, and hawks to name a few. In short almost all of our animals and birds seem able to contract the disease and, once contracted, to spread it, through biting, to other animals. In Iowa, rabies has been reported in the skunk, cow, cat, dog, raccoon, fox, hog, horse, squirrel, civet cat, ground hog, badger, sheep, rabbit, mink, gopher, muskrat, and coyote. Skunks have been most numerously reported, followed by cattle, cats, dogs, and foxes in that order. Man is probably exposed to the disease more often through the bite of a dog than any other single source. This is logical because the dog, more than most other animals, has close contacts with both man and the wildlife which may originally infect the dog. U. S. Public Health Service officials have stated that the vaccination of all dogs, accompanied by

Editorially Speaking

By Malcolm K. Johnson INSTANT CONSERVATION

money.

start your morning coffee the night before, or to boil potatoes a half-hour before they can be mashed for Sunday dinner-science and hot water have reduced the time element to seconds.

Buy a house, car or any of the innumerable home appliances with out adequate preparation? Sure, why plan-we can get it on "time" with no money down and a lifetime to pay. Planning, saving, and working toward a goal (in essence, a reward for some sacrifice) is old stuff—"use it now, wear it out and pay later"-sound familiar? Maybe it's too close to home for some believers, who've stretched their financial resources beyond recovery, and even these people appear to be as successful as the next man. But are they really?

Success has such pliable meanings, but it boils down to what you have left when the game is over and what we, as a people, will be able to tally up looks pretty skimpy where natural resources are concerned. Because it's so easy to say "let George do it," or "I'll really get after it tomorrow," our stock of nature's renewable resources has been going downhill like a fast freight to the final goal of no fish, no game, no scenery, NO NUTHIN'.

In our present era of mass pro- | versation-and for good reason. duced fast action, it's so easy to Draining natural wetlands to profall into the pattern of believing vide more rat food in overflowing that any problem can be solved by storage bins seems to be a naintroducing more men and more tional mania. Perhaps a meal of roast rat would help to convince No longer is it necessary to those few, who graciously allow the taxpayer to contribute in excess of a million dollars a day for mere storage, that our vermin crop isn't the best investment.

> Here again this instant business comes up. We can hatch ducks like chickens and let hunters knock 'em down within the confines of a shooting preserve, but what about the people who drive a hundred miles to see the spring migration? Well, movies might help them a little when all the birds are gone.

> Another interesting aspect to our national tale of woe lies in the efforts of the Federal Fish and Wildlife Service trying to buy up some of the remaining wetlands while another government agency spends much more money paying landowners to drain them. Many more illustrations of the same type are available to those who will look. Upland forests are removed and suddenly new dams are needed to stem the additional run-off to the rivers. Irrigation from our streams during the low period and pollution go hand in hand to make a fisherman work all day for one bullhead.

STAFF CHANGES

The State Conservation Conmission has approved the follow ing staff changes:

EARL ROSE, Chief of the Divsion of Fish and Game.

(a former fish biologist, Ro has been Acting Chief of Fi and Game since the resign. tion of R. W. Beckman August.)

DARREL M. HILL, Superintenent of Construction Engineerin. (was an Engineer's Aid un l Glen Powers was made Actin Director in July. Has bea Acting Superintendent of Costruction since that time.)

PAUL LEAVERTON, Superinten ent of Land Management.

(was Superintendent of Game BILL BRABHAM, Superintende of Game.

(was assistant Superintende of Federal Aid.)

LESTER FLEMING, Assista Superintendent of Land Acqu sition.

(was Unit Game Manager Bays Branch Unit.)

ROY DOWNING, Exhibits Man ager, Public Relations Section (formerly Conservation Off cer, Appanoose and Monre Counties.)

SUPERSTITIOUS?

According to the ancient trib. customs of our red-skinned for bears, devouring the heart an brains of the game taken is goo insurance if you believe that th courage and sagacity of the vie tim would be transferred to th

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them) is a current topic of con- There just ain't no such thing.

or frozen. Instant coffee, instant tea and maybe even instant people (if we have it right from the can-Ducks (or rather the lack of nibals), but instant conservation?



What is that thing Doc? A moment later with her curiosity satisfied, this Pointer had achieved the best possible protection against rables. A ''man's best friend'' can be his worst enemy unless such precautions are taken.

dogs, would go a long way toward more dog owners do not have the eradicating the disease in the consideration, if not for their dogs, the destruction of all unvaccinated United States. It is too bad that then their fellowman, to have for your protection and for his.

That's our story-dried, canned hunter for his future success.

their dogs vaccinated. It almo: seems that people are unwillin to do something unless there is law which says they must compl-

Men who own and use huntin dogs are especially urged to tak t upon themselves to have the dogs vaccinated against rabie These dogs stand more chance (meeting with a rabid skunk or fo than does the ordinary "house pet variety of dog which may seldo venture from the yard. This is no meant to be construed that hous pets shouldn't be vaccinated to

Rabies vaccines are availab which will protect your pet-an maybe you and your children-u to three years after the shot, an the price of the shot is well withi the means of every dog owner.

We've all heard that the ho days in July and August (calle dog days) are the worst time fo rabies. This isn't so in Iowa when more cases are reported in lat winter and early spring than a any other time of the year.

Some countries have completel eradicated rabies, and we can d It here also if we follow the advic of those who are studying the dis ease. A good place to start is wit old Rover-get him vaccinated-

FORESTRY-

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(Continued from page 185) and grasslands. It is primarily educational and is tied directly to schools and rural fire departments. In addition, it cooperates with volunteer groups of landowners who have a protection program for their neighborhood. This educational service has resulted in reducing the fire problem in our state.

Trees and Shrubs Are Available

Tree seedlings and wildlife shrubs are sold at cost by the State Nursery at Ames and beginning January 1, each county extension director, soil conservation service technician and conservation officer will receive tree order blanks. All orders should be made prior to March 1 because supplies are limited. Deliveries start in southern Iowa about the middle of May.

Hardwood trees and shrubs are sold at \$12.50 per thousand excepting multiflora rose which is \$20.00 per thousand. All evergreen seedlings cost \$22.00 per thousand. Prices are F.O.B. nursery.

The Man to See

District foresters, sometimes called farm foresters, are employed by the Conservation Department to work with timberland owners and timber operators. Their job is to encourage better management of privately owned woodland and to promote tree planting on non-agricultural land. All district foresters are graduates of a fouryear forestry college or university, equipping them with the needed on the land; how fast the trees are technical background.

present time has six farm forest- ing condition. The forester can ry projects covering 48 counties. provide a management plan and Headquarters for these projects also advise on possible markets are in McGregor, Anamosa, Fair- and assist in preparing bids and field, Farmington, Chariton and timber sale contracts. Adel,

The first step in improving an area is to make an inventory of the owner's woodland to find out what is available. This is called a cruise. From it the forester can tell how much merchantable timber and how many young trees are growing; which trees should be The services of these men are harvested and which should re-

More than just woods, forests are an essential part of conservation. Restful and relaxing, productive and protective-you just

can't beat the lowa woods!

The timber operator is the third member of the woodland management team; without his co-operation and interest a good forest management job cannot be done. Farm foresters advise operators on markets and timber for sale. It is just as important to work with the operator as it is with the owner.

duction that comes in after harvesting provides good food and cover for animals.

Tree programs recognize owners who have dedicated their forest land to the growing of wood crops. Before an owner is certified, the woodland is inspected by a forester who reports its condition and possibilities to the local sponsoring organization. This program is sponsored nationally by the American Forest Products Industries, Inc., and locally by the Iowa Retail Lumbermen's Association with the cooperation of the Iowa Bankers Association, the State Conservation Department and other organizations interested in the best development of Iowa's forest resources.

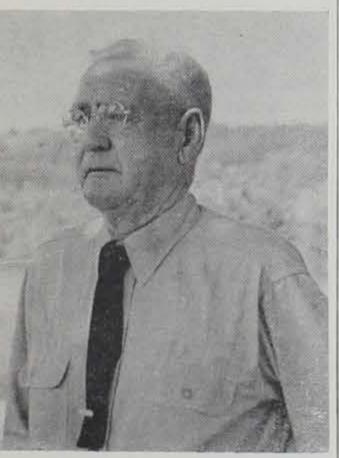




Page 187

available free of charge to all main for future growth; the kind woodland owners who want to in- of products that can be harvested; crease the productivity of their the areas that need to be planted timber through improved manage- and the amount of work needed to ated by cutting operations. Den ment. The Department at the get the woodland in the best grow- trees are preserved and the repro-

JOCK RETIRES AFTER 35 YEARS



J. C. (Jock) Graham, known to more trap shooters, quail hunters and dog trainers in the middle west then perhaps any other one man, has announced his retirement from the State Conservation department effective December 1.

partment in 1925 as a Deputy Game Warden. As such he served in Wayne, Decatur, Ringgold, Davis, Wapello, Monroe, Lucas and other counties from time to time until 1931 when he was appointed Deputy Fish and Game Warden of Wapello County. He held that office for four years until the State Conservation Commission made him a State Conservation Officer. From 1935 to 1949 he covered Appanoose, Monroe, Wayne and Lucas Counties, and was assigned, for awhile in 1944, to Decatur. Then, on July 1, 1949, Jock retired. He fully intended to go to Centerville and live the life of a retired sportsman and dog trainer and, in so doing, add to his collection of trophies and medals as one of the state's leading trap shoot-

ers and quail experts. It was not to be. That same day, July 1, he was pursuaded to be re-hired as custodian of the Hooper Area where he has been every since. challenge to Jock, for which his love of wildlife and quail in par- pecially with quail) attests to the Actually this is Jock's second ticular was responsible. There skill of this conservationist, par "retirement." He joined the de- had been no quail at all and very excellence, Jock Grøham.

What About the Game

Proper timber management is an asset to game production. Browse comes in where openings are cre-

the approximate distance walked.	
The grand total amounts to:	
Partridges	
Rabbits 7,417	
Pheasants 6,320	
Hares 5,211	
Snipes 4,694	
Other fowl 2,756	
Woodcocks 1,080	
Landrails	
Black game 81	
Quail 50	
Bitterns 50	
Wild geese 8	
Golden plover 6	
Wild swans 3	
His summary of shots for forty	
seasons:	
Shots	
Killed	
Missed	
Days out	
By walking two and one-half	
miles per hour, this fellow would	
have traveled 36,200 miles; around	
the world and then some! He fired	

some 750 pounds of powder and

four tons of shot and, to top it

off, never spent a day sick in bed

during the forty years of hunting.

up?

How about that, any runners-

IN THE GOOD OLD DAYS

Break out your diaries, hunter and see how you compare with nimrod from Merry England. Th gentleman, Lord Malmesbury, wa quite precise and kept a complet record of his days in the field for forty seasons, extending from 1798 to 1840. Discounting th greater population of game in hi era by remembering the kind of arms and ammunition availabl at that time would make his quite a hunter in anybody's bool Not only the numbers and kind of game killed were written in hi journal, but also the quantity powder and shot used, time in th field, the day's weather and eve

little other game at Hooper. Fis ponds were going to be built an stocked and the cover for wildlif had yet to be planted. Jock de lighted in such work and the fact This new assignment was a that his ponds and game cover are now bountifully populated (es-

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IOWA CONSERVATIONIST

SOLUTION FROM DOWN UNDER



Lending a helping hand to nature, the 500 gallon per minute flow of water is so far considered successful in solving Lake Cornelia's problem.

By Malcom K. Johnson

"Pump a lake full of water? You're nuts!"

We were driving around Lake Cornelia at the time and I had just told my friend why we were there-to see a lake being filled by pump. I'll have to admit to some doubts of my own in spite of the assurance of the engineers of the State Conservation Department that it was really working.

And then I saw it. "You don't believe it?" I said, "look over there."

And so it was. Emanating from a long "L" shaped pipe about a foot in diameter was a steady stream of Iowa's liquid gold. Gushing straight down onto a mound of rocks which prevents bottom erosion and extreme turbidity near the flow, came this lake-saving engineering phenomena. On and on at the rate of 500 gallons per minute, water roars down into Lake Cornelia, replenishing from subterranean depths the liquid that life is dependent upon. Not too long ago, this shallow depression in Iowa's glaciated surface was producing good crops by a hundred or a thousand years, of corn and hay, the result of too little rain and too many emaciating warm winds. Hydraulics experts tell us that a hot dry wind can evaporate as much as an inch of water from the whole surface of a lake in one day. That much in just 24 hours, mind you, and think of all such days we see in a normal summer and fall. Without Mother Nature's sprinkles, drizzles and genuine frogstrangling showers, our favorite summertime recreation spots wouldn't last much longer than a match in a whirlwind, if that long.

Lake Cornelia is an example of this and there are many others. Though usually, relatively small water bodies, larger ones also demonstrate their precarious positions when annual rainfall figures drop for an extended period. As lakes are naturally excellent silt traps, the problem is thereby compounded by the bottom rising to meet the lowered top surface. The "Save the Lake" group at Storm Lake is acutely aware of this difficulty. And the disheartening part of the story is that lakes are only a transient phase of the land's natural progression from uneven ridges and depressions to a near perfect plane. In other words, both physical and biological processes tend to level the whole land surface of the earth. The time involved in accomplishing this feat is beyond comprehension, but if there's one thing this earth has plenty of, it's time.

time required to fill a lake with sediment is great and while it is usable for recreational purposes and economically feasible to even extend its useful life, then for the well-being of the people it should be done.

Pumping water into Lake Cornelia is an experimental project which should help to determine whether the practice is wise or not for other troubled lakes. The lake area is 285 acres and it has a limited watershed. The ledger shows that the yearly loss is about four feet and only $2\frac{1}{2}$ feet are replaced by natural means. So in order to maintain its level, a deficit of 285 acres of water 11/2 feet deep must be made up from another source.

The State Conservation Department, cooperating with the State Geological Survey and the Water Resources Council, has established a pumping station and weather recording instruments to find out if the procedure is advisable. The cost of operations is paid by the local citizens and not only will the lake level and weather be recorded but also the effect of the well on the water table all around the well. An aquifer (water carrying stratum) below those normally used is supplying water for the pump.

The capacity of the aquifer has been established at 1500 gallons per minute and the well is constructed so that a pump of this size can be substituted for the smaller one if need be.

In any case, the residents around Lake Cornelia are fortunate that the experiment appears to be successful. Much more time and recorded data are needed before the whole story will be known, but for the moment, at least, it's reassuring to know that the lake may be stabilized. Now overpopulated with perch and sun fish, it should be fished hard this winter to give the recently stocked bass and wall-eyes plenty of elbow room. Restoring the lake is only half of the problem-making use if it is up to you.

COMMISSION MINUTES

The Commission was welcomed to Muscatine November 4 by Mayor Walter Conway who presented a petition from that city asking for the dredging of Muscatine Slough The Commission inspected the area and discussed the petition, and made recommendations on procedure for achieving this project.

Muscatine parks commissioner Ollie Bently, asked the Commission to change its policy to allow the city park to acquire wild animals out of season for display in the city zoo. No action.

Mr. Charles H. Young of Muscatine, chairman of the National Executive Board of the Mississippi River Parkway Planning Commission, gave a summary of the planning for the Great River Road which will follow the entire length of the Mississippi River.

A report was given by Acting Director Glen Powers concerning planning for an in-service training school for the Conservation Department.

Earl Rose was approved as Chief of the Fish and Game Division.

Mike Hill was approved as Superintendent of Construction Engineering.

H. W. Freed asked the Commission to consider approval of a policy to automatically retire all employees at age 65. No action.

A fish control program for Storm Lake was approved.

Buchanan County Conservation Board received approval for trans-

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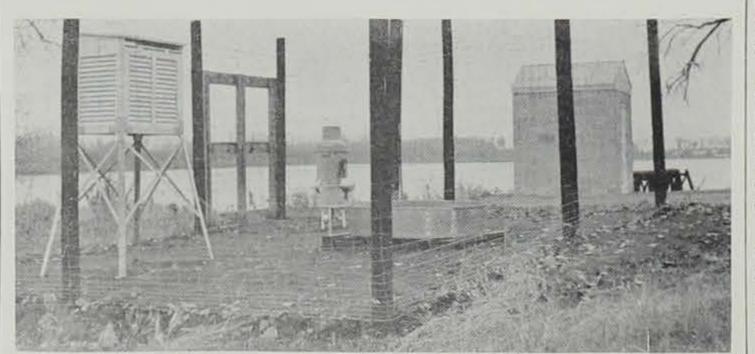
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Without the natural replenishment from an adequate watershed, lakes not fed by rivers or underground streams are highly susceptible to minor changes in rainfall and are then called marginal lakes.

Are we then shovelling against the tide by attempting to circumvent a natural process? Again, time is the important point and whether we slow the general trend in the end it makes no difference. Our top soil is moving ever downstream and this soil was once hard rock such as we find in limestone quarries or down deep in the earth's crust. The length of food.

The feet of the parrot are "yoketoed," with the first and fourth toes extending backward. They are used like a hand for holding



Complementing the gauging station this weather unit assists in making a complete record of moisture gained by natural means at the lake site.

fer of six acres of land in the Hazelton Area to a cemetary association.

Coty of Iowa City requested introduction of Gambusia minnows to control mosquitoes in the Coralville Reservoir. Action was postponed for one year to allow further study of the problem.

Travel authorization was approved for seven employees to attend the Midwest Wildlife Conference, December 7-9 at Minneapolis. Bob Russell, of the Iowa City

Izaak Walton League, informed the Commission about the "Save Our Shorelines" program of the national Waltonians. He also recommended acquisition of more river access areas located near bridges and reported on and recommended farm ponds created by highway fills.

The Commission accepted a 60 day option for purchase of 52 acres of land adjacent to Geode Park at \$150 per acre. They also requested release of the funds for this purchase by the Budget and Control Committee.

Request of Glen Severson to construct a dock on state shoreline adjacent to Shorewood Acres on the north shore of Clear Lake was approved.

Request for transfer of funds from spillway account at Lake (Continued on page 190)

INTRODUCTION TO **ODESSA GAME** MANAGEMENT UNIT

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vision.

By William H. Aspelmeier Manager

(Editor's Note: Words of de-Slough scription are awfully cold and dead the area compared to the beauty of Lake on and Odessa's features. You must see it to believe; to really feel its power. Formerly cultivated, this land has been returned to its own and here nature's pleasure in herself is expressed simply and well. Conservationists should take pride in these areas made possible through their own efforts,

Odessa is the responsibility of William Aspelmeier, Unit Game Manager. Bill came to the Department on January 1, 1953 as a laborer at the Colyn Area, and was promoted to foreman three months later. On March 1, 1955, ne became Unit Game Manager and remained at Colyn until July 1, 1958, when he was moved to Odessa. He is 30 years of age and, like all of the Department's Unit Managers, very much dedicated to his job. Here he describes the largest of the Federal Aid Secas Sution's Units.)

The Odessa Game and Fish Management Unit is located in Iowa's southeastern corner with the headquarters at Lake Odessa. It is probably the most intensively used fish and game area in eastern Iowa during spring, summer and fall with a full range of water sports, bicknicking and camping to lure

tion to luring many, many ducks ter level. onto the sheltered surface. One couldn't be very far off by saying that ducks can be seen flying around here every minute of the day during the season. It's no wonder that Lake Odessa is a treasure trove of waterfowl.

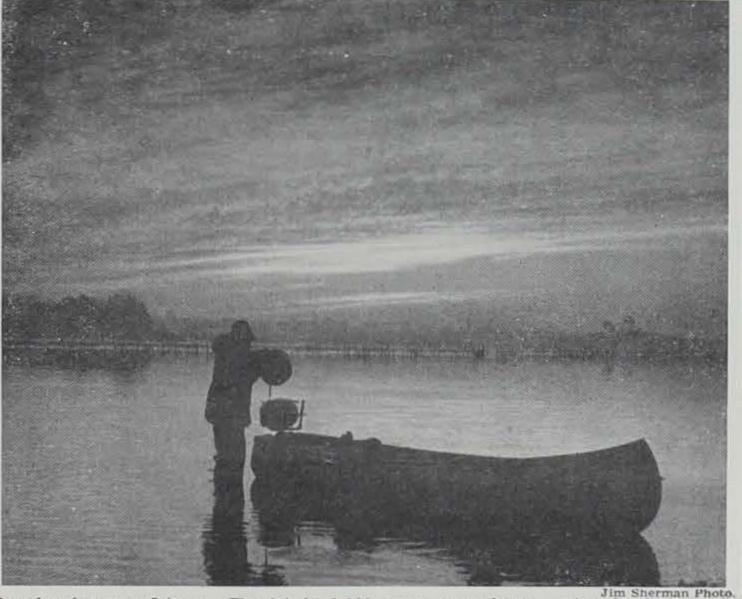
The many chutes and ditches provide excellent fishing for crappie, bluegill, catfish, walleye, silver bass, and black bass. Crappies of the 18 inch size are commonly taken from Odessa every year. During the summer months, thousands of people come to enjoy picnicking, camping, boating and water skiing. The area is also rich in Indian lore which attracts both professional and amateur archaeologists.

a natural marsh containing 464 and is located in Des Moines

The Skunk River Access Area lies in two separate segments in in Louisa County containing ap-Des Moines County. It contains a total of 63 acres and provides access to approximately 1.2 miles of shoreline on the Skunk River. Long rows of multiflora rose hedge, patches of native grasses and thick stands of bottom land timber offer food and cover to all upland game species.

Oakland Mills Access is located in Henry County. This 27-acre tract provides access to approximately .6 miles of Skunk River shoreline. A wooded bluff rises sharply from the river bank providing habitat for squirrel, rabbits, quail and songbirds.

Tama and Edgewater Access Goose Lake in Clinton County is contains three and one-half acres, acres. A lush growth of aquatic County. A foot crossing is pro-



structure to the Mississippi River. Klum Lake is a natural marsh proximately 200 water acres, and 300 land acres. Like Allen Green Refuge, this water area also receives supplemental pumping each fall. The marsh is heavily vegetated with cattail, river bulrush, and other aquatic plants in smaller numbers. It makes a convenient stopover for feeding waterfowl, being located just three miles from Louisa National Refuge which attracts many waterfowl each fall. Good quail, squirrel, and deer habitat surround the marsh. Approximately 79 acres of the area are leased for farming each year.

Weise Slough, located in Muscatine County, and containing approximately 850 acres, is a semiartificial marsh managed primarily for waterfowl hunting. Several scattered patches of agricultural land on the area provide food and some cover for upland game and the remainder is taken up with large stands of timber, and heavy growth of native grasses. Wildlife species present on the area and in substantial numbers include deer, squirrel, rabbits, pheasant, and quail.

The 875 acre Princeton Area of Scott County is a semi-artificial marsh which lies adjacent to the Mississippi River at the mouth of the Wapsie. Prior to the waterfowl season each year, the marsh is augmented by pumping from the Mississippi River. Fishing is limited to several small ponds stocked with bullheads. The upland portion is river bottom timber and thick stands of native grasses. One of the access roads also provides access to the Mississippi River where a parking lot and boat launching ramp are available.

Page 189

the leisure minded folks of our state. The Unit has 17 areas for a otal of 12,036 acres and they vary n size from a sprawling 3,200 acre multiple use area to a tiny fishing access containing less than two acres. Each has a primary objecive in its management with secondary purposes also kept in mind. The Unit is managed generally for vaterfowl hunting and/or fishing, placed on upland game.

Lake Odessa, in the fork of the owa and Mississippi Rivers in numbers of huts and feeders each Louisa County, is a 3,200 acre muliple use area. One of the few area which surrounds the marsh reas in Iowa with positive water evel control, the lake is raised or owered by means of an inlet bove and an outlet below the dam | Moines County is a natural slough on the nearby Mississippi River. t has approximately 2,000 water teres and 1,200 of land. The area's ocation with the proximity of Jouisa National Refuge, desirous narsh vegetation and many good bonds and sloughs nearby all conribute to hunting success on this rea as witnessed by Iowans from ill over the state and residents of nany other states who take their luck hunting seriously and spend heir annual vacation where shootng is the finest. By raising the the area is supplemented each fall vater level 18 inches this fall, a reat deal of shallow water passge was afforded hunters in addi- done to insure a satisfactory wa- ture on Smith Creek and an outlet growing bone found in mammals.

Day breaks over Odessa. The lake's 2,000 acres necessitate a plentiful fuel supply to carry a hunter to his secret place where whistling wings sing his favorite tune.

vegetation, makes it ideal for wa- vided over the Mississippi River terfowl and other marsh inhabit- levee to an emerged wing dam ants. Several broods of waterfowl which juts across Otter Chute. n particular, with some emphasis are hatched and reared on the area each year. A large popula- ing along its rocky edge during tion of muskrats is evident by the fall. The upland portion of the offers excellent habitat to rabbits and pheasants.

> Allen Green Refuge in Des containing 120 acres. This has been managed as a refuge for many years and is well known by migratory waterfowl and bird watchers alike as many thousands of birds rest on this small refuge each spring and fall. Bird watchers and wild fowl euthusiasts flock in during migration peaks to observe species of ducks. The upland fringes of the refuge provide good habitat for squirrels, rabbits and song birds. The watershed of by pumping water into the impoundment from a drainage ditch,

This wing dam furnishes good fishcertain times of the year. Development is underway at the present time for a parking lot and boat launching ramp and it is expected to be completed some time this fall.

The Green Island Area in Jackson County is 2,721 acres of sloughs, timber, large flats of native and domestic grasses and many scattered fields of agricultural land. It lies along the Mississippi River between the mouth of the Maquoketa River and Smith Creek. The area is primarily managed for waterfowl hunting, but also provides excellent habitat for deer, squirrel, and aquatic fur bearers. Large numbers of wood ducks nest here annually and it is also heavily used by migrating "woodies." Limited water control is possible on the impoundment by the use of a water diversion struc-

Port Louisa and Toolsboro Accesses are at either end of Lake Odessa in Louisa County. They provide access to the Mississippi River and facilities include parking lots and boat launching ramps at each area.

Other areas of the Unit, but which receive little or no management, are Green Bay, Muscatine Slough, and Keokuk Lake.

From the standpoint of eastern Iowa's growing troop of outdoorliving families, the recreation provided by Lake Odessa and nearby areas is second to none.

Things You May Not Know

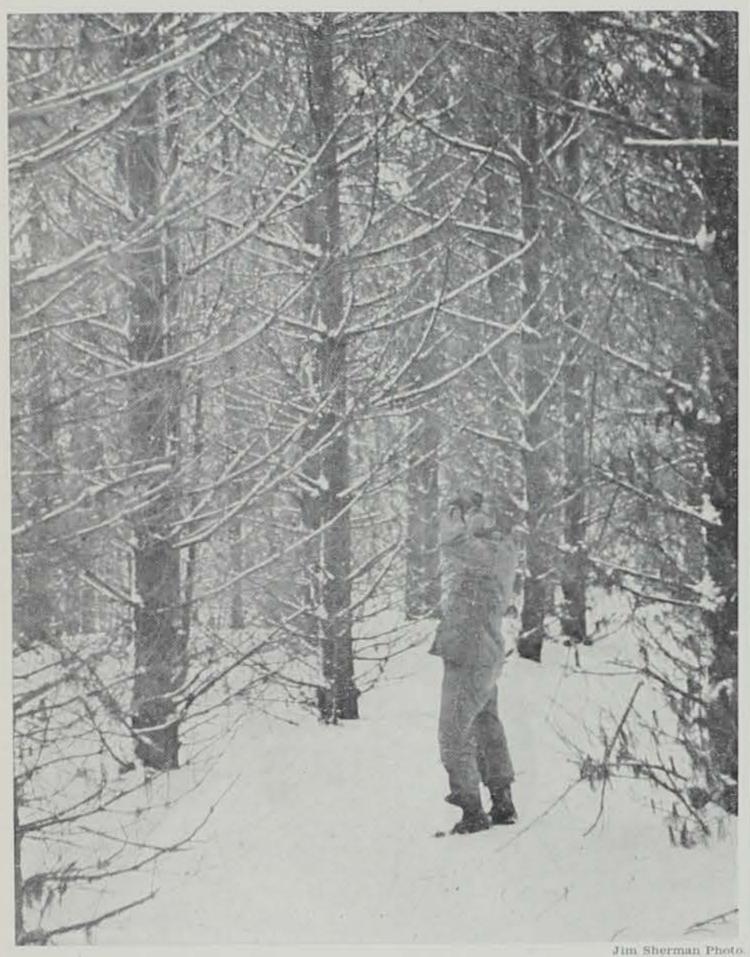
The pigmy shrews are the smallest shrews, weighing only 1/4 ounce -less than a dime. Because of their activity and small size, they consume several times their weight in food every day.

*

Bucks drop their antlers every year. The new ones start to grow immediately after the old ones fall away. They are true bone and while developing, are the fastest Page 190

IOWA CONSERVATIONIST

MONEY DOES GROW ON TREES



Of all the trees in lowa, the white pine seems to respond best for reforestation. This man isn't looking for dollars, but they're there.

the trees. Many other investments require a considerable outlay of cash.

Each year your woods can grow enough lumber to build an average sized home! And don't forget, the 10,800 board feet is only the NEW growth each year on the trees in vour woods.

Let this growth accumulate for five years and by just removing or harvesting the trees representing this growth you could expect to earn \$1,350 in standing timber value. Log the timber yourself, selling the logs at the roadside or at a mill, and your earnings should more than double. If your home needs remodeling or new outbuildings could be used on the farm, use of home-grown lumber might mean a savings of thousands of dollars to you.

You are probably wondering just what this woodland management and improvement involves. Improving and building up your woods requires a few days of your spare time. The work done in your woods can be scheduled during slack periods. In most cases, your time rather than money is needed to start your management program. The more time you work, the faster your woods will increase its growth.

An improved, good, growing adds lumber through woods growth. Harvesting or cutting trees in your woods without regard to sound forest management practices - like withdrawing a savings account from a bank throws the entire woods out of production and ruins its ability to

COMMISSION MINUTES-

(Continued from page 188) Darling to be used for a water line at that lake. Approved.

Request from Hawkeye boat liv ery at Clear Lake for permission to dredge an area 50 by 400 fee long and six feet deep was ap proved.

Request from the city of Iow: City to build a bridge over the Iowa River to replace the existing city park bridge was approved.

It was proposed by Doctor Hu miston, commissioner from Ceda: Rapids, that data be compiled or the value of a bridge over the Coralville Reservoir at the Mahaf fey bridge location and a representative to be sent to Washington D. C. if and when a hearing is hele relative to this bridge; approved

Commissioner George Meyers o Elkader and Acting Director Pow ers were authorized to go to New, Orleans November 29, to attend a meeting of the Great River Road Development Committee.

Commissioner Mrs. John Crab! of Jamaica reported on a survey of the California plan of Commission organization.

Printing of 500 copies of the County Conservation Board Plan was authorized.

Franklin County Conservation Board was given permission to accept a gift of one acre of lanc from the town of Latimer, also granted permission to purchase one acre of land for a roadside park.

Buena Vista County Conservation Board was authorized to buy and develop 20 acres of land for a winter sports area.

Likewise, forgotten trees or un-By Keith D. Henley attended woodlands can fail to grow, earning little or nothing. Fifty-four good-growing acres something for posterity. It can of woodland, however, could be producing up to 200 board feet on each acre each year, a total of 10,800 board feet each year for the entire woodland. With present standing timber prices at \$25 per thousand board feet, your annual growth alone would be worth \$270. Woodland management is conservation which pays dividends. Forget the old adage, "Money doesn't grow on trees," because it does. If you're a woodland owner, building up your woodland could mean a more profitable future for you and your family. Let's look at it this way. . . .

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Although there are idealistic reasons for managing woodland, it's not just a matter of leaving also pay off in cash now!

The value of woodlands from the standpoint of the products and services they furnish-lumber and pulpwood, wildlife, water, and recreation-has long been recognized as of prime importance in our everyday lives. But what does this mean to you as an average woodland owner?

Just the other day, a landowner who owns 46 acres of woodland said to me, "So you're one of those conservationists, eh? Well, conservation never paid me anything, so I don't think I'm interested in any woodland conservation program." Everybody is interested in making more money and this owner proved to be no exception.

The skeptic overlooked something. Woodland management is conservation with dollar signs. than you probaby think-more It is a business, and like other well-managed businesses it should yield a profit.

If your woodland is being negthat it isn't earning you much. the deposits invested-the trees. away in an old mattress earns takes money to make money."

Your woods is a savings bank and your trees are your deposits. Money deposited in a bank-like trees in a woods-earns interest and pays dividends. The growth of trees can earn you more money than a savings account or savings bonds, and more than the average stock market investment.

As a woodland owner you are lected, there is a good chance lucky, for you are already have Poorly-managed money socked There is another saying that "it nothing and pays no dividends. But you already own the land and hatched.

earn money through growth. Good management practices can guarantee sustained growth which represents continuous income to the woodland owner.

Woodland improvement consists of one or several cultural practices. This varies according to the type and nature of the woods. Your Conservation Department forester can be of great help to you in planning your management program-designed to fit your work schedule and your needs. Participation in the Agricultural Conservation Program's timber stand improvement practice provides cost-sharing assistance. In addition, forest tax laws are available to woodland owners who practice sound management of their woodlands.

Woodlands, wisely managed and treated as a crop, can become one of the most productive areas on your farm. Investigate the possibilities. Contact your nearest forester. A well-managed woods means dollars to you, increased economic wealth and stability to your community, and a stronger America. The opportunity is yours. Try it .- Wisconsin Conservation Bulletin.

Fishes are scaleless when

Cherokee County Conservation Board was authorized to develop a roadside park near Meriden.

Floyd County Conservation Board was authorized to repair a dam and make other improvements near Rockford.

Permission was granted to request the release of \$8,000 for various improvements at Mill Creek State Park.

Request was granted for the allocation of \$2,000 for construction of toilets and shelters at Gitchie Manitou State Park.

Superintendent of Forestry, Mans Ellerhoff, reported on a multiple use program for the Yellow River Forest area.

It was decided to maintain the prices of nursery stock at the Ames Forest Nursery at the same level as last year.

Acting Director Glen Powers was instructed to ask for a joint meeting with the Highway Commission on December 2.

Commissioner Clyde Frudden of Greene asked for a recommendation to be presented by the staff at the next Commission meeting on how to handle competitive bids for construction projects.

Assistant Attorney General James Gritten explained the status of public lands along the Missouri River,

THE HOMING INSTINCT

By Thompson and Mann

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oved.

We share with our dogs, cats and other domestic animals an attachment to a place we both regard as home. If one of these animals strays, or is sold to a new owner, or is carried away and abandoned, it acts lost and homesick as it struggles to grope its way back. This is easy to see in pets and among livestock on farms. Surprisingly, many such displaced animals do find their way home, often through miles of strange country.

Less commonly known is the remarkable ability of a wide variety of wild creatures to navigate unknown territory with pinpoint accuracy-birds, bats, mice, turtles, fish, insects, and many others.

How do they do it? Many of us carelessly say that they have "an instinct to go home," but these are empty words and explain nothing. Experiments and careful observations have thrown some light on the guides used by a few kinds in their homing behavior and on their seasonal migrations. Different ones steer by landmarks, the sun, wind direction, shore lines, valleys, echoes, scent trails, water qualities, a sense of time and distance, or by combinations of these navigating aids.

Seasonal migration of wild animals has been going on for ages. some indication that many of them *County* Forest Preserve. have developed inherited responses to outside conditions which help guide them in their travels. Still more puzzling is how an animal can find its way home after having been carried away and released in a strange place.

certain strip of country. Many of BUNNIESthem rely entirely on visible landmarks and get lost in bad weather or fog. They differ so widely in their homing ability that only a few, toward the end of their training, can make jumps of 100 or 150 miles over unfamiliar territory.

The cowbird, because it lays its eggs in other birds' nests, may not seem to be a homebody. However, years ago, a backyard bird bander at Waukegan often carried cowbirds to Chicago, released them in the evening, and then found them back in his cage traps the next morning-thirty miles away. Even one shipped to eastern Pennsylvania flew into Waukegan two weeks later.

The smallmouth black bass, one of Iowa's most prized game fish, also has a distinct homing behavior. By catching, marking and releasing dozens of adult bass in a creek broken into many alternate pools and riffles, the Illinois Natural History Survey has shown that each fish tends to remain in its own favorite pool year after year. Furthermore, when dozens of other tagged bass were hauled in tanks and released in distant parts of the same creek, some upstream and some downstream, over half of them soon found their way back to their own home pools. At least one smallmouth swam home from miles away in another creek in the same river system.

No animal carries a built-in compass or electronic device such as we intelligent human beings Mysterious as it seems, there is need to find our way home.-Cook

(Continued from page 185)

the breeding potential. Some years, for reasons yet unexplained. rabbits produce more litters than during others. And the litters themselves are larger. When this occurs, rabbits may be numerous. Other controls are weather and cover conditions, and, as mentioned previously, disease.

Anyway, February is a likely month for snow.

Now someone's bound to say, "I'm not a-goin' rabbit hunting when they're a "carrying young." But we're ready for that one. The rabbit season was extended into February only after intensive research by the writer revealed that hunting would not conflict with the mating season.



Perhaps easier than with bow and arrow, the pistol still has much to offer where fun and Br'er Rabbit are concerned (don't forget to take plenty of ammo).

Rabbit abundance or scarcity is a temporary thing. Mortality is writer has examined 63 female high. Our aging studies reveal cottontails killed during February, that only about one-fourth of the March, and April. Most of these cottontails ever live beyond the were victims of highway traffic first year. Chaw on that awhile! and all were subjected to careful It simply means this, abundance depends upon how strenuously the rabbits endeavor to reproduce rabbits) were found, they were themselves (they're famous for carefully measured and the meastrying) and how successful their attempts are. For these reasons we say, hunt this year, and enjoy yourself. Next season may be different-at least the rabbits will be different. We know that many more cottontails die every year from socalled "natural causes" than from hunters' bullets. The problem is: Can this harvest be increased? Our answer to that is the three week extension of the season into February. By prolonging the season, we hope that many rabbits normally wasted by "natural" mortality will provide extra recreation and fried rabbit during late winter when there is normally little to hunt except crows and foxes. In the writer's belief the cottontail harvest may be increased by 25 per cent with the February season. Much depends upon snow conditions. It seems our Iowa nimrods regard bunnies as mere hohum game until snowfall, but when snow covers the landscape ol' br'er rabbit better discard his carrot and summer capers, 'cause they're still here. And don't be someone will have the double barrel or "22" out looking for him. we know it'll be all right.

During the past two years the

Homing pigeons have been trained since ancient times to direction as it gradually learns a of soaking through.

The smallest long-distance traveler on this continent, the rubythroated hummingbird migrates from the United States as far south as Guatemala and Panama.

Because the sloth spends most of its time upside down, its fur carry messages. The training lies in the opposite direction to starts by taking a young bird a that of other animals, towards its short distance away from its loft back instead of down from it. and allowing it to fly back, then When torrential rains fall, the farther and farther in the same moisture merely drops off instead



examination for evidence of pregnancy. When embryos (young urements used to calculate age. With this information it was easy to determine dates of mating, and consequently, the mating season. Of the 63 females, only six had mated earlier than March. The earliest for the entire group was February 23. Our season closes February 21.

Probably mating activity will depend upon weather conditions. Cottontails will not get amorous during cold and snow. During extremely early springs when we have continued warm weather and no snow, a very few rabbits may mate earlier than February 21. If they did, their young would be born March 21 or before. Young rabbits in the nest at that time have little chance of surviving, because, as everyone knows, March and early April are noted for lousy weather. And a little cold snap or snowstorm will exterminate all nestling cottontails.

Well, shucks, the whole story is this: If you like rabbit hunting, be sure to go this year while afraid of the February season-

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SO YOUR BOY WANTS A GUN

By Bob Chaddock

When I ran into Bill on a downtown street the other day, the first thing we started talking about was the upcoming hunting seasons and what the prospects were for good game. When I inquired about his family, Bill told me everyone was fine, but he had a problem and didn't know quite what to do about it.

"What is it, Bill?" I asked.

"Well," he said, "Jimmy wants a gun. Not just a plaything, but a real gun, one that shoots. And frankly, Bob, I don't want him to have one."

I had heard this same opinion expressed time and time again. Perhaps you too feel this same apprehension. Several reasons sometimes are offered for not giving the child a gun. The boy is too young. He should learn not to kill, or I don't believe in shooting in any form. But the longing for a gun by a youngster is as normal as his desire for ice cream or candy. It's a rare individual, especially a young boy, who doesn't want a gun at sometime in his growing years. It's up to the parent, of course, whether that child ever gets a gun.

Bill didn't know himself just why he didn't want his son to have a gun. He did confess, however, that the main reason was the fear he held that Jimmy might have an accident, or maybe even be killed. Other parents, of course, have other fears, while many others can hardly wait until their children are old enough to learn to shoot.

ference whether the boy or girl is weak or strong. He or she can participate on equal footing with everyone else.

Probably the most oft asked question is: How old should he be, before he is allowed a gun?

There is no cut and dried answer to this question because the child's age generally cannot be used as a yardstick. Some youngsters are ready when they are only 8 or 9 years of age, while others may not be ready until they are much older or into their teen years. The real yardstick to follow is that of responsibility. Do you leave your youngster alone at home for two or three hours, or maybe longer? Do you trust him to get the correct change, without supervision, when he goes to the drug or grocery store? If the answers are "Yes," then he is more than likely ready for a gun, but under proper supervision.

Isn't shooting expensive?

No, not at all. Most boys start shooting with a .22 caliber rifle, which is a bargain among sports. Ammunition costs about a penny a shot. While special rifles are available, the beginner usually starts with a single-shot .22 rifle, costing \$15-\$25. But if your child wants a gun and you intend to let him have strength up to par, much less the one, why not let him earn the money or save from his allowance for his very own shooting equipment?

Is shooting safe?

WINTER BOARDERS

Winter scenes in Iowa can be beautiful, when sunrises or sunsets paint the skies in splendor; a newfallen snow cloaks the landscape with virgin purity-or-when our yards are covered with feeding birds! Rirds of all sizes, shapes and colors, hopping, walking; noisy or calm. This grace and beauty can be enjoyed with luck and a little labor on our part.

As with all animals, the problem of the birds in winter are those of food, shelter and warmth. We solve the problems easily with our modern homes and markets, but it's a tough adjustment for the birds. Those that go south for the winter have it made, of course, but some stay here or come to us from their summer homes farther north. We don't know why. They just do, and they are our problem. Keeping warm is no trouble for the bird if it has adequate food. The feathers are better insulation than fur. When properly fed, a winter bird can easily maintain body heat-but when the insects are all dead or hidden away, seeds have been harvested or buried under the snow, a bird has much too large an area to search for food. It will find it hard to keep flying energy needed to form a necessary shield of feathers.

More than anything else, a food supply will draw birds to your home. However, the supply must



Mr. Titmouse at the fueling station.

be constant to get the birds to form the habit of coming to your feeding station. You can place the food in almost any accessible spot and some birds will find it, but to draw the shyer ones, you'll need a more sheltered place.

A feeding station should offer shelter for birds and keep the snow and rain off the food. It should be safe from marauding cats, dogs, squirrels and raccoons, unless you want to feed them too. Natural shelter, such as a clump of trees. should be nearby for the birds to escape if necessary. It may be a shelf attached to a window, a box on a post, a box hung on a wire from a tree, or just a cleared space on the ground. The deeper the snow, the greater will be the patronage of your feeding spot.

Food depends to some extent on the birds you wish to attract. Seeds, grain, fruit, insects, earthworms or other animal material are their natural foods. Corn is too large for most of the birds but the cardinals like it and many other species will go for it if it is cracked. Most feed dealers stock cracked corn especially for bird feeders, as well as all kinds of grain, bird seed for pets, and chicken feed. The cardinals like an ear of corn hung on a wire or nailed to a tree so that they can pull the grains off themselves. As for the insect eaters, the best substitute is suet. Most meat counters still supply suet free of charge or at very little cost to bird feeders. Make sure you fasten it down by some means, otherwise the squirrels may carry off the whole supply. Try fastening a piece of large mesh hardware cloth over the piece of suet or put it in a wire soap container and fasten that to a tree or feeding station. Chickadees like this.

Many parents always ask, "Why do youngsters want to shoot in the first place? Why not encourage my boy to take up some other sport?"

Remember your history books when you were in school? You heard the tales of Daniel Boone, Davy Crockett, the soldiers in war and many other attention-holding stories. Each one of them told about shooting. In fact, shooting is a part of the American tradition. And too, the average boy will someday want to answer his hunting instincts and join with millions of others each year who take to the fields, the duck blinds, on deer trails, or just across the woods in search of rabbits. And really, it's fun . . . good, clean, honest fun enjoyed not only by boys and men, but by girls and women, too.

Shooting is a sport that can be enjoyed for a lifetime and better still, it is a sport one may take part in as an individual or as a member of a team. To be sure, some boys and girls just can't participate in certain rugged sports, either because of frail build or and from many sportsman's clubs. physical condition. But shooting In addition, some schools have junrequires no special strength or ior rifle clubs where expert instrucphysical fitness. It makes no dif- tion is given.



Unbridled joy-and it makes no difference whether the first gun is old or new. With dad to give some pointers, young nimrod here should be supplying the rabbit for stew.

Very definitely, if the boy or girl has been instructed properly. Such instruction can be had readily. The Department of Conservation conducts gun safety courses the year 'round. Other competent instruction can be obtained from your local YMCA, Boy Scouts, 4-H clubs

After our talk, Bill and I bid each other goodbye.

I watched him as he walked down the street and stopped at the window of a sporting goods store. A display of guns had caught his eye. Within a few moments, he entered the store and I started my walk home, knowing that a surprise was probably in line for Jimmy that evening. - Oklahoma Wildlife.

A pan of water, kept free of ice, will also do much to attract birds. You may even find them tempted to take a bath on a warm day.

Place your feeding station where you can see it from a window and be ready to get your share of the pleasure that comes from "doin" right by God's chillun." Among the visitors you may expect besides the cardinals and chickadees. are the nuthatch, downy and hairy woodpeckers, brown creeper, pheasant, blue jay, cedar waxwing, evening grosbeak, goldfinch, slatecolored junco, tree sparrow, and of course the pigeon, English sparrow and starling.