

Number 9

1963's HUNTING PROSPECTS

E. T. Rose Chief, Fish and Game

We "oldtimers" are prone to reflect on the wonderful days of yesteryear when hunting was really good, bag limits were plentiful, seasons long and we returned with our limits every time. That is the great part of human nature, we recall the good things and usually forget those unpleasant experiences. If we are honest with ourselves, we often didn't take our limit each time out, and sometimes came home empty-handed.

Populations of game birds and animals fluctuate from year to year, mostly due to environmental changes. When weather is favorable for reproduction and the habitat is good we enjoy bountiful crops of game.

A GOOD YEAR

This year has been one of the really favorable ones insofar as weather is concerned. The early spring with an absence of heavy rains was conducive to good reproduction for pheasants, quail, partridge and rabbits. This coupled with a fine carry-over of brood stocks has produced a bumper crop of game now maturing for the fall hunting season.

Each year a complex system of surveys and censuses are taken by game technicians, biologists, conservation officers and rural mail carriers to determine the status of game populations.

All dovetail into final reports which are thoroughly examined by Commission staff members before making recommendations to the Conservation Commission proper. The same procedure, only on a more elaborate scale is conducted by the U.S. Fish and Wildlife Service in cooperation with the fourteen states in the Mississippi Flyway to determine the status of waterfowl populations. This year an encouraging report has been received which indicates that the populations of waterfowl are moderately increased. We can expect this to be reflected in a more liberal season than last year.

Since most game species cannot be stock-piled, the seasons are tailored to permit hunters to harvest the surplus. Due to environmental deficiencies, the annual surpluses if not taken by hunters, would not survive for next breeding season. Our management program is based on keeping population in balance with the available habitat.

The Iowa State Conservation Commission has geared the hunting season to the increased populations as recommended by the technical staff. Let's consider briefly the status of each of the important game species and the seasons now established.

PHEASANT

Populations are up in all of the major ranges this year. This increase is in the neighborhood of 15 to 20 per cent over last year. The good brood carry-over was due to a relatively mild winter with no disastrous blizzards. Fair winter cover and a good mating season brought about this increase. Last year we had a season from November 10 to December 14 with three birds in the daily bag and six in possession. This year the season is extended from November 9 to January 1, 1964, with three in the bag and nine in possession limit. We will have fourteen additional days more hunting than previously. Of course most of the harvest will be on the opening weekend as usual.

QUAIL

Prospects for good quail hunting are the best in years. This splendid game bird has bounced back from its low of 1960 by about 100 per cent in the major quail ranges of Iowa. Again the environment played the big role. The record heavy snow and cold winter of 1959-60 raised havoc with the bob-white, but the last three years have brought back this brown bomber in bountiful numbers. This increase is also reflected in the seasons in which nineteen more hunting days are permitted,

(Continued on page 69)



Voine 22

Iowa Conservationist

September, 1963 Published monthly by the State Conservation Commission, East 7th and Court Avenue, Des Moines, Iowa. Address all mail (subscriptions, change of address, Form 3579, manuscripts, mail items) to street address above.

Subscription price: two years at \$1.00 Second class postage paid at Des Moines, Iowa (No Rights Reserved) HAROLD E. HUGHES, Governor

E. B. SPEAKER, Director JAMES R. SHERMAN, Editor DENNIS L. REHDER, Managing Editor CAROL BUCKMANN, Contributing Editor MEMBERS OF THE COMMISSION

EARL E. JARVIS, Chairman Wilton Junction SHERRY R. FISHER, Vice Chairman...

ROBERT E. BEEBE	Sioux City
N. K. KINNEY	Ida Grove
ED WEINHEIMER	Bellevue Greenfield
MIKE F. ZACK	Mason City
CIRCULATION THIS ISSUE	54,000

COMMISSION MINUTES

Des Moines, August 6

The Conservation Commission appointed Everett Speaker as permanent Director of the organization.

FISH AND GAME

Open seasons were established for 1963. Pheasant, quail, Hungarian partridge, rabbit, squirrel, raccoon and furbearing animals, and the deer season and method of take for 1963 were also established.

Approval was given for an agreement with the State University of Iowa concerning the use of facilities at the State Hygenic Laboratory.

Approval was given to proceed with the design of a new hatchery building at Clear Lake, located off the side of the old building-total cost \$51,791.00 contingent on the correction of a storm sewer problem in that area.

An option was approved on Elk Creek Marsh in Worth County for 22.5 acres of land at a cost of \$3,550.00.

An option was approved for the Meadow Lake Area in Adair County, including 80 acres of land at a cost of \$11,000.00, and another option for the Meadow Lake Area for 80 acres of land at \$11,000.00.

A discussion concerning camping fees on Spirit Lake Fish and Game access areas was held.

Louisville Bend on the Missouri River in Monona County was established as an inviolate wildlife refuge area from September 15 until after the hunting season.

The Commission met with R. L. Fehseke of Fort Madison, and other interested people concerning the straightening of the lower portion of the Skunk River.

LANDS AND WATERS

triever trials to be held at Lake project. MacBride by the Southeast Iowa Field Club, September 8, 1963.

Lake.

The Attorney General's office advised the Commission that the State had no cause for action against the Molo Sand & Gravel Company of Dubuque.

Lake by the Methodist Church.

Approval was given to a 50the City of Bellevue, in Jackson and deliberation up from the south. County.

Administrative Order No. 307 concerning Boating Regulations, was amended to regulate speed and distance on Federal impoundments within the State of Iowa.

Approval was given to a request for special zoning regulations in Massey Park Marina near Dubuque for the control of a congested area.

Approval was given to a memorandum of agreement with the Board of Control concerning the Prison Labor program, and for the operation of a Prison Labor Camp by the Conservation Commission.

only.

COUNTY CONSERVATION ACTIVITIES

Cerro Gordo County received approval for the acquisition of 115 acres of land at a total cost of \$20,550.00 as an addition to the Wilkins Marsh Area.

proval for the purchase of 50 acres be an end to it. These prophets said so, and they were almost immort location.

acre of land by lease from the city of Humboldt on the west fork of the Des Moines River for boat prairie marsh. launching and fishing access.

Linn County received approval for the acquisition of 84.76 acres of land at no cost from the Linn County Board of Supervisors to be used as part of the Wildlife Refuge Mr. Ira Lewis of that vicinity.

Palo Alto County received approval for the acquisition of five acres of land under a 5-year lease at a cost of \$1.00 per year, located four miles west of West Bend for picnicking and fishing access.

Polk County received approval for the acquisition of 3.17 acres of land at a total cost of \$1,268.00, located in the southeast corner of the City of Des Moines as an addi-Approval was given for re- tion to the Yeader Creek Lake

for the acquisition of 6.43 acres of The Commission met with a dele- land at a total cost of \$5,500.00, eral Aid Coordinators meeting at national Association of Game, I gation from Black Hawk Lake located one-quarter mile south of Horseshoe Lake, Illinois; Conser- and Conservation Commission area in Sac County concerning the City of Harlan adjacent to vation Business Management As- at Minneapolis; and the Miss the regulation of docks on that Highway No. 59, to be used as a sociation at Lake of the Ozarks in River Inter-Agency Highway Safety rest area.

REQUIEM OF A DREAM

A Message for Taxpayers

Ernest Swift

In 1900 the Des Moines River gathered waters from numerous lake Approval was given for a re- and many prairie sloughs in southwestern Minnesota to flow souther quest to take water from Viking across Iowa into the Mississippi. Ducks and geese winging south from a region vaguely identified as "Up North" funneled into a myriad ponds and bayous to rest and feed. It was virgin habitat, and natu year agreement for the use of 2.8 had been lavish in her bounty. With the melting snows of March a acres of land for a sewer plant by the receding ice, the flight was reversed and came with easy gra-

But prairie lakes and marshes and diminutive ponds were so commi across that broad, flat land that often the flights were spread fro

horizon to horizon, east and west, north and south. I remember the brooding prairie of 60 years ago, with its melancho winds blowing one season into another; the ponds festooned with be rushes and cattails, a moving kaleidoscope of riotous waterfowl, u counted and without numbers. Muskrat houses seemed to dot tho undulating waterways to the horizon.

The flight of the Wright Brothers at Kitty Hawk was still irrational dream when first I lay on my back among the pasq flowers and watched the majestic geese winging overhead. The fil of ducks and geese were endless, from dawn to dark; and from I bed at night I could hear the resonant symphony of the Great Cana honkers as they pierced the prairie darkness-and in those days the flew without benefit of International Treaty.

Their wild song was mingled with a youthful and undisciplin passion for freedom, big skies, unplowed prairie, wild creatures and insatiable curiosity. These early instincts were further inspired Permission was given for the vast screaming flocks of gulls, as they sailed over the plowed field use of a Ski Jump at Tuttle Lake and there was no end to the number of sandpipers, terns, killde for the time it would be in use and other small fry. On occasion the reverie was interrupted by vain yappings of a farm dog chasing a bouncing jackrabbit. But I most treasured memory was the eerie booming of the pinnated grou and at times I was able to peer from an ancient buffalo wallow watch their fantastic mating dance.

At that time nothing could dim the youthful hero-worship for I mustachioed hunters returning with their buckboards laden with due geese and prairie chickens. These mighty men were so knowledgea that they scorned game laws. There was no stigma to spring huntil bag limits were in ratio to a keen shooting eye, and selling \$ Cherokee County received ap- shipping game was simply practical economics. There would not

of land at a total cost of \$3,000.00 Before I left the prairie in early adolescence to finish growing as an addition to the Martin River on a backwoods stump farm in the Lake Superior country, I remember Access Area on the Little Sioux the first machines that gouged ditches to drain some of the lakes a River to be used for the expansion sloughs. That was many, many years ago, but it developed a wordl of picnicking and camping at that revolt in my youthful soul to the idea that such things had to be.

Sixty years went by and I revisited this area, and at the time Humboldt County received ap- daily bag limit of ducks had been reduced to two. Searching proval for the acquisition of one familiar landmarks I found cornfields with signs advertising the hybrid excellence, where nostalgically, I remembered cattails and raucous bedlam of milling waterfowl darkening the sky over

In the interim of those long and varied years I had traveled to mi places and seen many things having to do with natural resources; the depletion, some remarkable rehabilitation, but never quite the origin I had seen successes and failures, brief victories and the sears lasting defeats.

I had become case-hardened to such realities, I had learned to conarea which has been proposed by my indignations, but not to forget them, and to channel my energ toward appropriate action.

But in this instance the impact was emotional despite rigid train A childhood dream world had suddenly collapsed. The prairie mars were gone, and gone were the waterfowl and the strident shore bil Monuments to these huge drainage projects, there were dozenshundreds throughout the area-neat, steel bins stored with price s ported corn.

Then came the sudden realization that the awesome power of I ation was forcing me to become an unwilling agent in the destruc-(Continued on page 67)

GENERAL

by the Director to Camp Ripley, Mill State Park in Indiana;

Missouri; a Correctional Congress meeting at Minneapolis.

in Portland, Oregon; Coopera Approval was given for travel Farm Forest Supervisors at Spi Shelby County received approval Minnesota, to review Iowa troops. Conservation Society of Ame-Travel approved included Fed- at Logan, Utah; and the In

July 1963 July 1965

IOWA Hunting, Trapping and Fishing Laws Synopsis



STATE CONSERVATION COMMISSION East 7th & Court, Des Moines 8, Iowa

ers of the CONSERVATIONIST are familiar with the cartoons of Conservation Artist Jim Baldwin of Spencer. Here is one of his latest pieces of serious work, racing the cover of the new combined Hunting, Trapping, and Fishing Laws

little booklet contains a survey of lowa hunting, fishing, and trapping laws ig changes in the law made by the last legislature. Copies are available from onservation Officer, County Recorder, and others who sell hunting, fishing, and

Question on Minnows

emen:

ave a tank in my basement pply myself with minnows. innows have contracted fun-If there is a treatment cure same in a coming issue of ONSERVATIONIST?

ould appreciate any informaou could give me regarding and treatment of bait min-Thank you.

A. W. Fleming Davenport, Iowa

nswer from Bill Tate, Ass't. necessary. t. Fisheries

the skin of the fish. Fungus infection may also follow bacterial disease or external parasite in- most any kind of fish wants to was blowing, and I'd fished half festations.

ie fungus, would you please ods of treating fungus is to dip the solution of common salt (sodium chloride) until they show visible signs of distress. The fish should then be dipped back to fresh water. it. (The temperature of the dip should be the same as the holding tank.) This treatment should be repeated at two or three day intervals as

cotective slime and damages who hold or raise bait minnows, from a length of eight inch hard-

DREAM-

(Continued from page 66)

of resources which I demanded be given rational consideration; and that my representatives in Congress were denying me and millions of other citizens the use of that taxing power to save these resources. Never before had I realized with such clarity that the macabre inequities of the democratic processes could be as sinister as were the land abuses themselves.

The duck stamp was a grandiose gesture by Congress, because of much pressure, to answer for all time the waterfowl problem. A duck stamp purchase is a voluntary matter for each individual to decide, and a voluntary rabbit hitched to a subsidized horse makes a poor team.

I resent being taxed to destroy resources I value, and where no counter-balance is exerted by the taxing power to protect my interests. If the taxing power were used in both instances with equal weight and intelligence a compromise would of necessity result.

As a taxpayer I am an unwilling agent in building high dams without due protection of my interests; I am taxed to provide chemicals which destroy values I cherish, and here, again, none of the power of taxation is exerted to strike a balance. By the insidious power of taxation I am forced to contribute to the building of super-highways which destroy values I seek to save, and where no appreciable tax money is spent to guard my interests. If the power of taxation can be used to destroy, it can be used with equal force to protect; otherwise it becomes a tyranny.

In the matter of water pollution the power of law is not sufficiently exerted to force responsibility on polluters, but to an increasing degree the powers of Federal taxation are used to force all citizens to pay for the sins of the minority.

To a degree an opposite example can be cited. The Clark-McNary law contributes to forest protection, principally fire, state and national. While conservationists debate the virtues of wilderness versus multiple use, the basic resources, timber and watersheds, are being protected.

The loyal opposition of private citizens is forced down a tax road not of its own choosing, but when costly mistakes are made it is not exempt from paying for them. A sobering factor in budgeting for major programs where resources are violently dislocated, would be to insist on equal appropriations for all mitigating losses. That would slow down a lot of misguided "progress" to a crawl.

This is not apt to happen. We will continue on the theory that to the victor belongs the spoils, and that all the spoilage will belong to the rest of us.—National Wildlife Federation.

Do You Use a Bobber?

"have more sense than the fish," nearly sink it, but not quite.

Certain Indian tribes, reputedly, away our bait." Raising Bait Fishes, Circular 35, takes off with 'em like a flash, the water, sank, and NEVER DID gus on minnows is usually Fish & Wildlife Service, U. S. Unfortunately they are too light to COME UP. A bluegill took it as it condary infection resulting Dept. of Interior, is available from cast any distance, and for bank hit and ran about six feet with it improper handling. The the Supt. of Documents, U. S. casting must be ruled out. But and hooked himself! rature shock which removes should be in the library of all those or as I do, make your own copies they had fished in this spot since

I have heard that there are wood "dowel" and tapered at the twenty-five million people fishing ends. In either case WEIGHT the for panfish in the U.S. If that bobber so that only an inch or figure is correct, there are at least so is visible above water. I do this twenty-four million using the by fastening the lead directly to wrong kind of "bobbers" and the bobber, but another way is to complaining loudly of their ill luck. simply crimp on some split shot It is a basic tenet among fisher- on the line, close up and directly men that to catch fish, you must below the bobber, using enough to

and there is a common trait among I fished recently in a nearby lake. fish we must keep in mind if we using the "non-resisting" bobbers expect to out-wit 'em. It is this- described above. A strong wind RUN with the bait before he way round the lake without a bite, One of the most effective meth- swallows it. This is his instinct, but I finally found the bluegills and if you make it impossible or in a quiet cove. As I approached affected fish into a three per cent difficult by suspending the bait it I nodded to a man and wife and leader from an immense, ex- fishing there. They shook their tremely bouyant bobber he simply heads significantly. "They're in can't pull it under and run with there," they stated, "but they're not hitting, only just nibbling

> used to use porcupine quills as a I noted their big round bobbers bobber, and they are certainly ef- were trembling a bit as the bluefective, because they give almost gills tried vainly to take 'em under. no resistance or drag and a fish On my first case the tiny float hit

s develops on dead or weak- Government Printing Office, Wash- you can approach their efficiency The man and wife both contissue caused by injury or ington 25, D. C. This circular with a slender pencil-type bobber, gratulated me on my "luck." Said

(Continued on page 68)

60 YEARS OF CHESTNUT BLIGHT IN AMERICA

Some Survivors in lowa

John Stokes Assistant Superintendent Forestry

One of America's important trees at the turn of the century was the American chestnut. The native chestnut was found in the eastern United States, extending west to southern Michigan and south to Mississippi. The chestnut was fast growing; stump sprouts quickly produced new trees after the older trees were logged. The chestnut became an important nut and was eaten in large numbers. Many well-known stories, poems, and songs refer to roasting chestnuts as a part of early American family life. The tree produced lumber with a pleasing grain which was durable. It was used as fence posts, poles and ties. Above all, it developed in its wood and bark more than half of the vegetable tannin then produced in America, a tannin especially valuable for making heavy leather.

The American chestnut (castanea dentata), Marsh is a large tree up to 90 feet tall and three to four feet in diameter. The bark is dark brown, irregularly fissured into broad flat ridges. The leaves are narrowly oblong, five to nine inches long and one to three inches near lowa City, was hit by lightning recently. Much of the tree wide, long pointed, coarsely toothed with slightly curved teeth, midwest states including Iowa, and exposed to the disease which have BOBBERmany parallel lateral veins, yellow began to wonder about this sup- survived blight so far) have been green, smooth. The fruit is a posedly "doomed" species. spiny burr two to two and one- Dr. Jesse D. Diller, Forest grafted to Asiatic chestnut roothalf inches in diameter, containing Pathologist, U. S. Forest Service, stock in 28 states. Such scionwood

trees with them.

The "Blight"

"Chestnut Blight."

States have concluded that our Illinois, Missouri, and Iowa. chestnut is "forever doomed." During this period the search for a native American fungus has never ceased.

chestnut survivors, mostly in the (cuttings made from healthy trees nut.



This American chestnut, four miles northwest of North Liberty

taken. This scionwood has been early morning and caught only

and first hand experience with the blight fifty years ago, and many can chestnuts is continuing and swallow the bait as he'd like t behavior of this fungus, most larger, older American chestnuts Dr. Jesse Diller and his staff -unless he'd enlist several of people in the eastern United were reported from Michigan, would appreciate knowing period- friends to help him. From Gle ically the condition of trees he has McNeley, Des Moines. checked for Iowa landowners as well as the location of any The Forest Service is still inter- American chestnuts not reported Chestnut tree, resistant to the ested in all American chestnut tree to date. The State Forester's introduced Asiatic chestnut-blight locations, but at present is con- office has over 25 locations of centrating on trees over eight trees reported in Iowa. Any new it is time for the next. By 1954, foresters of the North- inches in trunk diameter, four and information received will be foreastern Forest Experiment Station one-half feet above the ground, warded to Dr. Diller for future at Laurel, Maryland, became in- The Forest Service has nearly 150 study in hope of finding a truly "prairie wolf," the coyote is I terested in reports of old American trees from which scionwood blight resistant American chest- smaller than the true wolf



has died, but one branch continues to survive. There are number of American chestnuts still living around the state.

fish. In the next hour and a l I caught eleven nice fat, hur backed bluegills without a sin question from either the man his wife as to the "how" of better luck. I was sorely temp

(Continued from page 67)

But it is a sad thing, to v the novice fishermen frantic yanking the line at every nil But of course the fish can Ol nibble. He couldn't possibly The search for resistant Ameri- it under and RUN with it,

> The sloth, one of the slo of animals, eats so slowly before he has finished one

> In spite of its description more closely resembles the ja

two or three broad, flattened edible Northeastern Forest Experiment grafts which came from a single nuts one-half to one inch wide Station, Upper Darby, Pennsyl- tree can be planted in several loknown popularly as "chestnuts." vania, has spent many years in cations to see if the source tree The American chestnut was fa- chestnut blight research, locating is blight resistant. vored as a shade tree in addition remaining chestnut trees and in- The Forestry Section of the to tell them what was wrong to its other uses and many early troducing new oriental species of Conservation Commission has co- even offer them one of my settlers in Iowa brought chestnut chestnuts. Several articles over the operated with Dr. Jesse Diller in "lucky" bobbers, but I had lear years have interested the public his efforts to find resistant trees. from past experience that π in reporting locations of trees that During several visits to Iowa, Dr. fishermen resent any advice 1 remain. Nearly 800 trees have Diller has checked a number of in any way casts a doubt on t Unfortunately in the early been reported in 36 states, Canada trees. American chestnuts have prowess, or questions their known 1900's a fungus, Endothia para- and Mexico. Checks of these trees been observed in the Iowa City edge of fishing. sitica was introduced into America were disappointing since many of area, Vinton, Wayland, and Middle from the Orient. The disease the American chestnuts reported Amana. During the 1960 visit, around the shores of a lake, te spread relentlessly and has de- turned out to be Asiatic chestnuts, Dr. Diller checked a tree in Fort ing with pan-fish, and see stroyed all of our commercial horse chestnuts, Ohio buckeye, Madison which was showing the hundreds of over-size bobbers, stands of this once most valuable pignut hickory and even Kentucky beginning signs of die-back due to species of the east. The disease coffeetree. Nevertheless a number the blight. Another tree checked has become commonly known as, of American chestnuts over eight at Keosauqua was still free of inches in trunk diameter were lo- blight. After 60 years of observation cated within the area swept by the

Still Searching

CANOEING THE BOONE RIVER

ebster City to the Des Moines River

3ob Cushman and Bob Jr.

ien the water on the Boone id-October of 1962, its varis in current speed offer the ist a pleasant and absorbing enge.

fog lay over central Iowa on morning we put in, but an un-

normal mid-October height of a V point between the riffles. of 4.7 feet.

point directly south of its ended its existence. farmlands.

t's Bridge. Canoeists can

UI A

e fil

hout !

r thi

+box

sorely

WAS F

ie of

Ihil

10e (III

ny adri

doubl

ns thes

thing

of 3 [1]

and h

nen fra

it ewn

fish m

4 Poss

s hed a

t service

descri

coyote

true

STRATFORD

tell you that a country bridge of your trip.

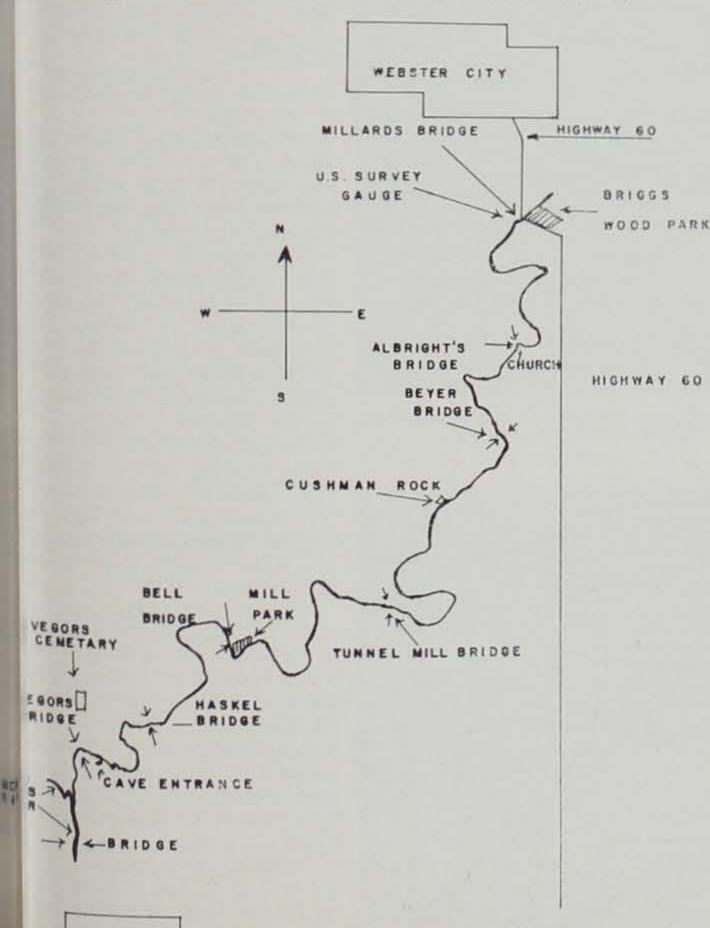
Where to Go?

A familiar question in our twonable seventy degrees prom- some as we approach a rapids is, a comfortable day; we felt "Where do we want to go?" Octhe fog would lift before casionally we decide simultaneous-We put in on the south ly on different courses, and paddle just below Millard's Bridge a couple of strokes accordingly. The hich Highway 60 crosses the resulting confusion quickly forces two miles south of Web- a meeting of minds! Usually a City. At this point the U.S. spot is found to enter the rapids gical Survey has a gage for where there appears to be a maxding the river flow. The wa- imum of depth as disclosed by tood at 3.0 feet as compared the smooth surface narrowing to

eet and a year around aver- Bever Bridge is near the site of the old Bone's Mill. This mill, Boone has its source in built in 1854, has a colorful hisock County, zigzags through tory, including its continual battle ht and Hamilton Counties, with ice and flood waters, its iming an average of 4.8 feet portant business function, a dash nile, finally joining the Des of romance, even a murder which es just above Stratford, at today remains unsolved, and final-Vebster-Hamilton County line ly a thunderous explosion which

e. The water is muddy-laden Just above this bridge on the silt stolen from the world's left bank is an excellent spot to put in a boat or canoe. Two hunhour brought us to Al- dred feet below is a rapids whose

(Continued on page 70)



Letter From Hanging Rock Woods

"The 'Woods' continue to furcomes slowly toward you around nish us materials for jellies and a bend in the stream, moves quietly jams as exotic, to my taste, as up and over you, then just as the fruits of the tropics. It's time quietly lowers behind you, gain- again to gather the May apples for ing many a backward glance, un- jam and marmalade. I'm sure you is the right depth, as it was til it finally slips away around have seen in the springtime the another bend. You may never see glossy, six-leaved, parasol-like it again, but it has become a part stocks that unfurl themselves to shade a delicate white blossom, and later almost hide the eggshaped 'Apple' which is light green in color turning to golden yellow as it ripens.

"Children of Mother's generation picked May apples, firm and yellow, and placed them in the dry warmth under the hay in the horses' manger to mellow. We pick the golden fruits when we find they have lost all green color, and bring them home to sit a day or two (in garage or basement) to let them mellow and allow any picked too early to soften a bit. If the skin is almost golden brown and the flesh soft, they are at their ready for preserves. mellow best. You asked if I had a recipe for the jam we made last year; our procedure was exploratory and analysis somewhat vague, but you may try as follows:

"Peel skin from the May apples. Remove seeds. Working with about six (6) cups of pulp at a fresh and light), cook the May- bit of drained crushed pineapple. apple pulp with water, just 'to 20 minutes or until soft.

strong heat until mixture boils Pantry'. again.

spoonful and if the jam holds well City.



Leaves withered and the golden apple is

on a tilted saucer perhaps you have this batch made!

"Every kettleful is a new adventure. To some batches we added bits of maraschino cherries for color; sometimes we omitted lemon juice; one could try adding time (in order to keep the color grated lemon or orange rind or a

"Don't be surprised if your cover', on medium heat for about product varies in consistency by each kettleful you make. Modern "To 6 cups of cooked pulp add science has not yet provided us 3 tablespoons lemon juice (if de- with a tangible kitchen test for sired) and 1 box commercial pec- pectin present in fruit at hand so tin. Stirring constantly, bring we just experiment, and enjoy the this to a good boil and add 6 cups unique flavor of May apple marmasugar. Continue stirring over lade from our Hanging Rock 'Jam

"Hope you find some May apples "Then we turned the heat down -at least a gallon or two-. We some and cooked mixture 5 min- call them wild mangoes because utes more with CONTINUED of their flavor, but the botanists STIRRING. I have scorched more call them podophyllum peltatum!" than my share of jams! Test a -From Mrs. Robert Tidrick, Iowa

PROSPECTS—

(Continued from page 65) twelve.

RABBITS

since 1950.

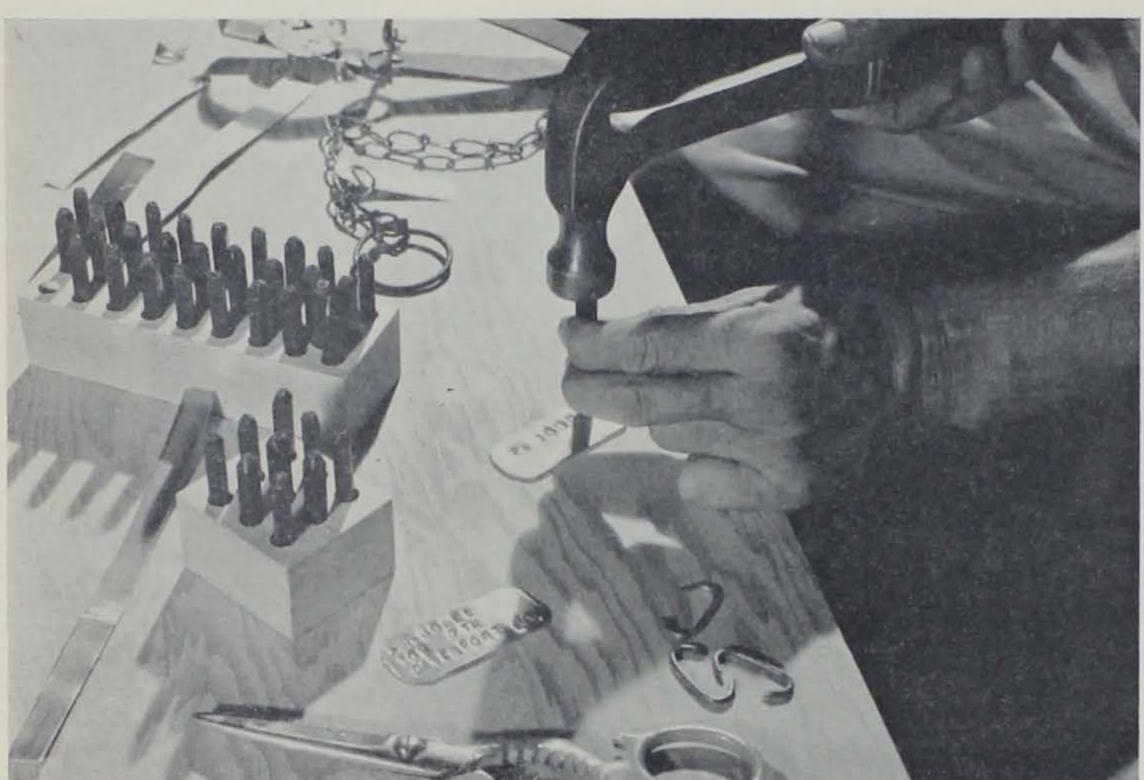
DEER

occurs. This year a block of hunting seasons in recent years.

twenty-five counties has been reserved for a two-day season only with the bag increased from five in order to reduce the harvest. to six and possession from ten to This area has a good population, but due to the type of environment-small wooded draws along The cottontail is again on the river valleys—an over-harvest is increase after several years of de- possible. We would like to have pressed populations. Technician less hunting pressure here than and officer survey data indicates in the more heavily timbered parts this year's crop to be the best of Iowa with their higher populations and less hunting pressure.

It looks like we can expect a Iowa's deer herd is constantly "red-letter" season for hunting increasing on a state-wide basis, this fall and winter. If you The estimated number of 33,260 haven't done so, now is the time is the highest on record; conse- to make arrangements with your quently gun permits are again ex- farmer friends for hunting privipanded to 2,000 over last year or leges on their land. Also you 12,000 in all. This, the finest of might check with your Conservaall big game animals, is carefully tion Officer on the prospects in censused each year to determine the public shooting areas. Don't its status. Our officers and bi- forget your license and duck ologists work closely and carefully stamp. We look forward to ento be sure that no over-shooting joying with you one of the best

Want to Make Your Own Trap Tags?



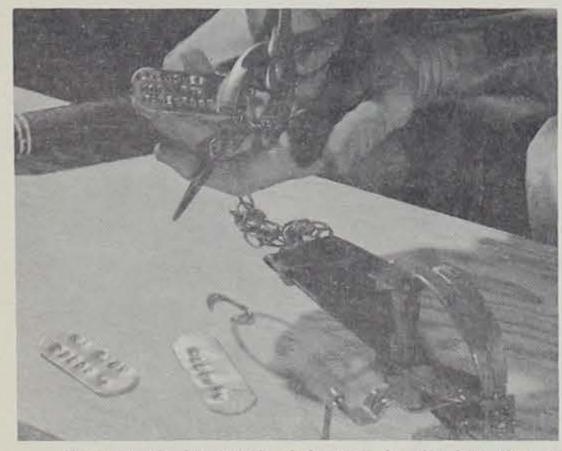
Jack Kirstein Photos You can make your own tags if you wish. One method uses light-weight aluminum. A letter and number set will do for stamping out your name and address. The new law requires trappers furnish their own metal tags.



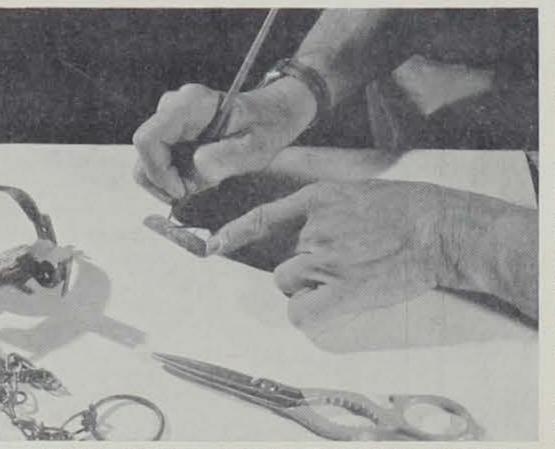
The light aluminum is easily cut with a kitchen shears. Non-deteriorating metals such as aluminum, copper, and zinc are recommended.



This tag will remain readable for some time. A hog ring makes a good rig for attaching the tag to the trap.



Trappers should attach their tags in the last link or ring of the chain. This makes it possible for the Conservation Officer to check the tag without disturbing the set.



Another method is using zinc with a metal stylus to imprint the owner's name and address. If you prefer to buy your tags, some of the more well-known order houses do supply tags.

The last General Assembly made and in some important changes in the law I lead relating to trapping in Iowa. Most av at of us are familiar with the change of the in license fees adults pay through an dollars, trappers under 16 year and for pay one dollar.

Not so well known, perhaps was the change in the tag law. It was the previous years the trapper pur at 1 chased his tags from the Conserva or to the tion Commission. However, haring law has been changed making | | | | necessary for the trapper to sup an and ply his own tags.

The trapping law synopsis avail in herons able from the Commission's De de foo Moines office has this to say o linker trap tags: "All licensed trap or August shall have a metal tag attache retions plainly labeled with the owner rolling name and address. Conservation and Officers shall have authority to have confiscate such traps when foun we leve in use that are not properly the labeled."

The Commission recommend a m that the metal tag be made of he migr metal which will remain readab to course and not deteriorate, such as alum I love num, stainless steel, or coppe the There are a number of commercial organizations from which trappe by inclin may purchase their tags.

Tags should be placed in the both end ring of the chain so that Conservation Officer can che but and your trap without disturbing you is a shall set.

CANOE-

(Continued from page 69) swiftness provided the most n - most of the day.

In places, the banks of the Boone are very hilly, and 25 mi lag utes below Bever Bridge on the legret left, the bank rises high with hu boulders protruding.

Ten minutes farther a hu rock (presumably limestone) be have ders the river on the right rises straight up, twenty or mo the feet, and is a good 200 feet length. Later we were told th above the ledge was an Indi Burial Ground. Clinging to t rock are scores of mud swall nests, making this an interestir busy place in spring and summi We lingered, decided that such thing of beauty should not be wit out a name, and promptly nam it "Cushman Rock."

The fog persisted.

Tunnel Mill Bridge is at the s of the mill built by Robert Wats in the mid-1800s. The 400 foot to nel was built to by-pass a swee ing, horseshoe curve, thus incres ing the natural current by a deep fall at the dam. Later we learn that remains of the dam still c be seen on the north side of t ridge.

At many of the rapids, there a parting of the stream formi an island. We had fun decidi which course to take, invarial choosing that which afforded 1

(Continued on page 72)

THE FALL MIGRATIONS

Carol Buckmann

At he summer wears on, days shorter and the feeling of groups and public sentiment, fall gins to fill the air. Even as

food.

ugust to September. Conions from 10 to 14 and nes 20 or 30 birds are

shallow water. With their Many great blue herons nest in legs are distinctive.

nigration.

EGRETS

the soft, nuptial plumes

were once sold for \$60 an ounce. Due to sympathetic Audubon

American egrets are no longer August, there's restless- rarities and a few nests have been long Dixieland marshes as found along the Mississippi River. and egrets begin concen- Snowy egrets are not as fortunate. for their northern migra- Although their southern come-back Iowa's shallow bays and is good, they are seldom seen here. American egrets are nearly four they stay about a month feet tall, have a 42-inch wing il the first freeze drives spread, yellow bills (slightly their Texas and Louisiana blackish on top), black legs and ng grounds. This reverse feet. Snowy egrets have bright on follows the main water- yellow feet contrasting with black and consists primarily of legs, black bills and are smaller. of-the-year egrets and little They are the most active of our rons from dispersed nests herons, constantly stirring the bottom ahead of them and running herons and egrets migrate in active pursuit of prey.

HERONS

The migration of Iowa's tallest over almost any marsh, fisherman, His Majesty the Great or bayou. At this time, the Blue Heron, is absolutely dislevels begin to recede, tinctive. The great blue heron, their favorite foods, with its 70-inch wing spread, is a insects, frogs, crustaceans thing of beauty in flight. Three h more readily available, types of flight have been recogmigrations follow major nized-soaring, gliding and flapourses such as the Missis- ping. In flight, they fold back owa, Cedar and Missouri their necks and rest their heads on the shoulders in typical heron are ten members of the fashion. This fine, big heron adds amily found in Iowa, rang- a picturesque touch to any marsh 1)m the robin-sized least landscape. It is versatile, adaptto the four-foot great blue able and at home in any small All are long-legged, long- stream, upland meadow, crop field, and strong-billed. They pond, shallow lake or mud flat.

ze, wing spread and pure Iowa's deep, inaccessible river odies, the egret flight is bottoms. Like other herons, great wander north in greater numbers migrations. the most spectacular blues are sociable with their kind than other southern herons except and nest in rookeries, balancing by egrets. The juveniles are pure birds to migrate and great contheir powerful necks, legs and white and often confused with centrations perched on utility the American and snowy wings, in treetops. Herons eat a egrets on their northern migra- wires are familiar sights to roadare found in Iowa but wide variety of small animal life tory flight. egrets are very rare. In ranging from snakes, insects, mice y 1900's, both were greatly and frogs to fish, eels, salamanders widely distributed Iowa herons, do in numbers at the hands and occasionally a rail or other not concentrate to the extent other e hunters. The fashion of marsh bird. They seldom take herons do. Standing by the water's in ladies millinery was game fish. The ones they do take edge with neck drawn in, this plume ornamentation. To are usually small or stunted.

is "aigrettes" or "ospreys," fishermen migrating in August unique. When stalking food, it Is were shot while caring and September is the rare little often freezes in odd positions held young which, as a result, blue heron. Although we scarcely with great patience before actively slow starvation. "Cross see them, little blues are a most s" from snowy egrets common southern heron. Their n and snowy egrets are uniformly dark bodies, maroon npletely protected by law. heads and necks, heavy black-

A common sight in late summer is hi-lines covered with swallows congregating for the trip south.

tipped, bluish bills and dark, long and September. Thousands of

small, dark bird doesn't look much Another of Iowa's long-legged like a heron. Its feeding habit is pursuing its prey.

Another common heron concentrating in Iowa is the blackcrowned night heron. When standing, the neck is contracted, giving it a hunched-up look. After breeding, these herons disperse widely to almost any lake or pool, then begin gathering for fall migrations. Like little green herons, they seldom gather in large num-

Their cousins, yellow-crowned night herons, are becoming more common but are still considered rare. They can be distinguished from black-crowned night herons by their heavier bills and longer yellow legs. The legs project well beyond the tail when wading or standing.

OTHER MIGRATIONS

Herons and egrets aren't the only birds concentrating in August

swallows, purple martins and After the breeding season, they chimney swifts form state-wide

Swallows are among the earliest side travelers. Swallows begin Little green herons, the most gathering when the young leave the nest. They feed on insects along sloughs, swamps and wet roadways.

> Cliff swallows are among the most common and have the longest migratory route of any American land bird. Their timely flights can be estimated within two or three days of preceding years. The pale reddish rump and almost square tails are distinctive.

> Bank swallows have clear white throats, brownish heads and backs and look very much like the larger, rough-winged swallows. Both have benefitted from human activity making good use of sandy banks, arid country, gravel pits, railroad and hghway cuts.

> Rough-winged swallows are powerful fliers with deeper wingbeats, straighter lines and fewer twists and turns than bank swallows.

Purple martins are distinguished during their migration by their flapping and sailing flight. They have broad-based, triangular wings and are the most domestic of our wild birds. In the fall, they form enormous temporary roosts before leaving for South America.

Chimney swifts migrate in early (Continued on page 72)

OU DOOR EDUCATION NEWS

Conservation Education Conference

workshop in order to acquaint teachers and educators of Iowa with the latest thinking and teaching techniques in the field of conservation.

The theme of this year's conyear in October, the Iowa ference is, "Effective Teaching in ation Education Council Conservation, Here's How I Do a workshop for teachers, It." Anyone interested in conserand others interested in vation is invited to attend. Teachtion education. This year ers should contact their local Soil erence, co-sponsored by the Conservation Districts in order to 'epartment of Public In- obtain financial aid in attending 1 and the Iowa Conserva- the conference. Reservations and nmission, will be held at further information can be ob-Camp at Luther, Iowa, on tained by writing the council's 11 and 12. Speakers and Executive Secretary, Mr. Charles persons of national im- Ballantyne, Iowa State University, will be present at the Extension Service, Ames, Iowa.

CANOE-

(Continued from page 70) most mystery-whichever seemed narrowest, swiftest and most obscured from view.

By mid-afternoon we arrived at Bell's Mill Park. This was the site of the mill built by David Eckerson, Methodist preacher, in 1853, which found its way into the Bell family. On March 2, 1888, Benjamin Bell died and that night, flood waters swept away the dam, stopping the wheels of the mill. Mr. and Mrs. Jasper Bell donated the land for the present park as a memorial to the pioneers who settled this area.

Just below the present Bell's Mill bridge on the left can be seen an old abutment of rectangular stones. Trees growing atop the structure are themselves ancient, and we could not but contemplate in what way and at what time the abutment served mankind. Sometimes one is torn between seeking out the answers to these local mysteries, or letting them remain forever mysteries, to be contemplated anew when on some wintry night we relive our trip down the Boone. Curiosity won out, and we learned this was an abutment to a bridge abandoned in 1870-almost a century ago.

Coal Mining

Considerable coal has been mined in this area and the river banks below Bell's Mill are black with evidence of its presence.

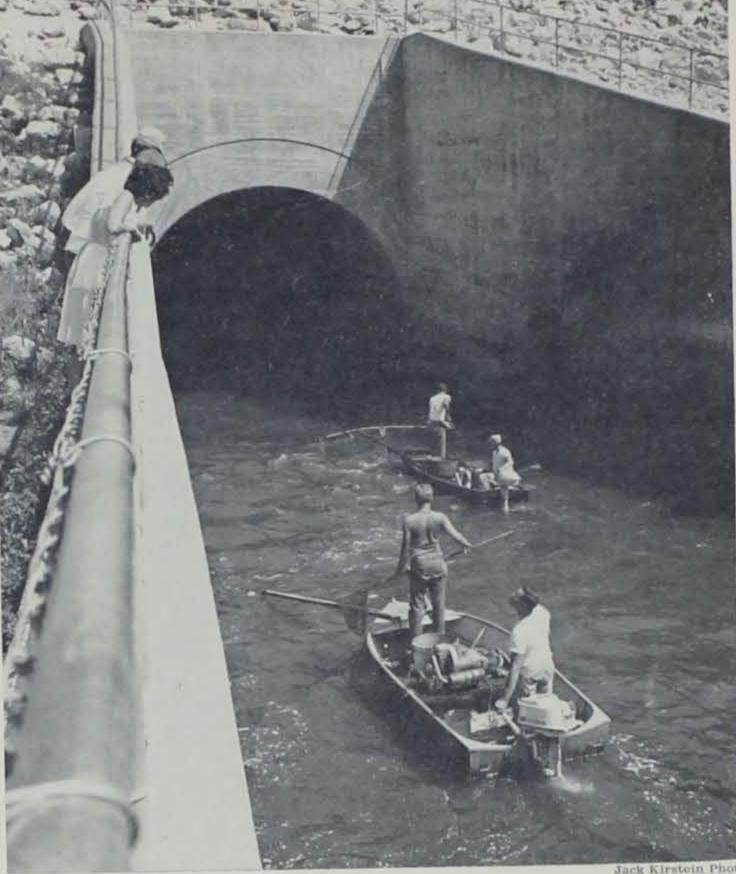
Twenty minutes later is Haskel Bridge. Here one gets a broad view of the valley, and the roadway can be seen winding up over the hills in the distance. We talked bridge, attempting to get our bearings to determine the distance to our destination, but he was "a stranger here himself!"

Another mystery which still remains exactly that: twenty feet or so up on the left bank is a concrete entrance as though to a cave, or maybe a mine-like on the late, late show! Concrete steps that once led to it have you come out with the loot, you portage. really should split with us.

white burial.

Landmark

been deleted.



The popular Coralville Reservoir near lowa City was the target of an intensive fisheries investigation early last month. Crews from the Commission's biology and fisheries sections divided the impoundment into three study areas-the headwaters, reservoir itself, and tailwaters. Nets and electro-fishing gear were used in the survey. The purpose of this survey was to determine the magnitude of reproduction for game and rough fish, species composition of the fish population, age structure of the their feet, and elephants fish population, and management techniques to increase the quantity and quality of of mice. All are untrue.

the sport fishery. Just from the raw data, indications are that carpsucker, buffalo, and crappie are briefly with a motorist on the the most abundant species. Others taken during the survey included channel catfish, flathead catfish, crappie, bluegill, largemouth bass, walleye, green sunfish, northern same family as the mink and pike, carp, redhorse, and various minnows.

> Another five minutes and the The porcupine is a ready swim-Boone joins the Des Moines. The mer. It often crosses streams of Boone, a rugged individualist up- its own volition. Because the dense stream, loses all when it pours inner coat holds much air and be- wild geese live longer than itself into the Des Moines-a swirl cause each quill is filled with air, other birds. Authentic records; of current where their channels the animal floats buoyantly. meet-then oblivion!

A mile or so below the junction, fallen away, cockeyed. Time did Bellville Bridge comes around the not permit us to explore or we bend. Just below it on the right might have left with fabulous is an excellent place to take out. treasure. Later inquiry revealed Our day had been perfect-23 nothing. If you take this trip, save miles of ideal canoeing-water just time to explore this spot, but if right-not once forced to wade or

We would like to do this stretch Five minutes later is Vegors again—but there is so much river Bridge. High on a scenic hill to in Iowa that we have not canoed, the north is Vegors Cemetery, an and there's many a spot where historic spot of early Indian and we'll be wondering what's around that next bend.

Time Between Cumulative Time From Put-In

Millard's Bridge La	ndmarks
Albright's Bridge60	minutes
Bever Bridge50	minutes
"Cushman" Rock	minutes
Tunnel Mill Bridge	minutes
Bell's Mill Bridge (and Park) 95	minutes
Haskel Bridge70	minutes
Vegors Bridge40	minutes
Bellville Bridge20	minutes

1 hour 1 hour 50 minutes 2 hours 25 minutes

3 hours 40 minutes

5 hours 15 minutes

6 hours 25 minutes 7 hours 5 minutes

7 hours 25 minutes Table represents actual travel time; time spent stopped or ashore has

MIGRATIONS-

(Continued from page 71) September when they alight large chimneys. They have na row, slightly curved wings and flight seemingly lack a tail. T fast, erratic course lacks smoothness and gracefulness swallows. They migrate in daytime or on moon-lit nights f ing or sailing alternately in circle They roost in large chimneys I turning to the same one year aft year. Toward evening, a who flock may disappear within a f 1 time 22 minutes into one chimney.

Although man's quest for know edge of the unknown has broug great break-throughs in spa medicine and other sciences, whys of these great bird mig tions is still an age-old myste Knowledge of these birds is portant as they all have an portant role on the stage of great outdoor theatre.

Things You May Not Know-

A particularly interesting A can snake is the egg eater. T snake is able to swallow and cra hens' eggs, and sometimes pigec eggs, the skin being stretched breaking point. When the egg cracked, the swelling collapses w the swallowing of the yolk and shell is ejected.

Three common beliefs are t bats snarl themselves in wome hair, falling cats always land their feet, and elephants are aft

The fisher, which belongs to marten, is able to fight off kill such animals as the fox, t cat and lynx.

Except for vultures and parr them as much as 70 years.



"Sorry, sir, but you'll need more than a resident hunting license!"