

VOLUME 3

1 the

tre-

s ar-

quail par-orma-

s, for

regu-s and

erva-

oduc-

t for

dur-

rginal

which

mbers

to as

Warl

food

ie for

reath.

down

mans

uction

Com-

se the

1 in-

lation

ns.

k are

h the

r-time

be de

Com.

regu

e care

emer. white

than y are ore in

OCTOBER 15, 1944

Annual Take

Soon thousand of Iowans will be scouring the fields, streams, and marshes for fur bearer signs, and the annual fur harvest will be under way. Last year the efforts of our trappers resulted in 979,315 pelts reaching the nation's fur markets.

Not only does Iowa produce furs numbering into the millions, but contrary to popular belief, our furs are of the highest quality. Especially is this true of muskrat, which in numbers and dollar value exceeds all other pelts. To those poor unfortunates who have never experienced the thrill of "stringing steel", the hardships and physical punishment that the trapper endures even in these days of television and airplanes seem a little on the nutty side. Be that as it may, trappers as a group are the most impatient their season to open so that they can test wits with the fur bearers and match their ruggedness pneumonia bugs.

Iowa Plans Comprehensive Of Fur Bearers Soon to Begin Postwar Conservation Program

Strip Tease

Eternity was just a pup When nature pulled the curtain up. Cave man, Persian, Greek and Roman Knew her as a master showman; Paul Revere and Bonaparte Marveled at her cosmic art; And the lady has a way With her audience today. Strip-tease connoisseurs will please Take a seat among the trees; Nature now presents October, The world's most colorful disrober. -Ogden Nash, in The Forest Log.

Director Schwob Makes Report to Commission

NUMBER 10

By F. T. SCHWOB, Director, State Conservation Commission (Editor's Note: The following is from Director Schwob's report to the Committee on Conservation of Resources of the Iowa Postwar Rehabilitation Commission, August 7, 1944, at the Statehouse in Des Moines. The report parallels and augments the wildlife and recreational program advocated in the Twenty-five Year Conservation Plan adopted in 1934 and being carried out under the direction of the State Conservation Commission. Other major reports on conservation to the Rehabilitation Commission at this meeting included: soil conservation, by Clyde Spry, Assistant Secretary of Agriculture, and Frank Mendell, Director of the Soil Conservation Service in Iowa; and public health and sanitation, by A. H. Wieters, Director of Sanitation and Public Health Engineering, State Department of Health.)

The Versatile Musquash of all the outdoor enthusiasts for Makes a Delectable Dish

By ANNA MARGRETHE OLSEN

Small aquatic fur-bearing mamagainst the weather, fatigue, and mals called muskrats, musquash, Ask any trapper what about or any of its closely related Althe game most interests him, and gonquian derivatives, have played he promptly replies, "The fur a significant part in the life and check," and undoubtedly profit is development of North America. the impelling motive without Histories, as well as the literawhich few of the fur animals ture of this country from the days would be trapped, even though of the Colonists to the present quite a number of them are edi- time, contain numerous referble. But in addition to financial ences to both musquash and musrewards, which in the case of rat, used interchangeably, and some professional Iowa trappers frequently together. As early as total three or four or more thou- 1616 Smith in his history of Virsand dollars annually, every fol-ginia called these mammals lower of the trap line experiences "mussascus or muskats", and described them as "beasts of the all the thrills and healthful recreation common to the sports of forme and nature of our water rats, but many smell exceedingly hunting and fishing. The fur take during the past strongly of muske". Another early historian, Jossetlyn (1672), (Continued to Page 75, Column 4)

says, "There is a little beast called a mushquash—their cods scent as sweet and strong as musk." In Carver's Travels (1778), one reads, "The musquash or muskrat is so termed for the exquisite musk which it affords." The very early recognition of the economic value of the musk and fur is a matter of record. Silkewormes' Observations (1620) contain the following: "Muske-rats skins, two shillings a dozen; the

Soil and water conservation is the fundamental basis upon which our wildlife and recreational programs must depend for success. The future of agriculture, industry—in fact, our entire economic and social structure—can survive and prosper only if we conserve our soil and water resources. It cods of them will serue for good is important that, at the close of perfumes." And again one finds the present conflict, conservation in Lawson's History of Carolina of natural resources be recog-(1714), "Musk rats frequent fresh nized as the most important probstreams and no others; as the lem facing the American people. bever does. He has a cod of As we study the complexities musk which is valuable as is likeof providing outdoor recreation, wise his fur." In Alsop's Marywe find that to obtain maximum (Continued to Page 75, Column 1) (Continued to Page 74, Column 1)

PAGE SEVENTY-FOUR

IOWA CONSERVATIONIST

Iowa Conservationist

Published Monthly by THE IOWA STATE CONSERVATION COMMISSION 10th & Mulberry-Des Moines, Iowa JAMES R. HARLAN, Editor LOIS AMES, Associate Editor F. T. SCHWOB. Director (No Rights Reserved)

MEMBERS OF THE COMMISSION F. J. POYNEER, Cedar Rapids Chairman J. D. LOWE . Algona F. W. MATTES Odebolt MRS. ADDISON PARKER Des Moines CIRCULATION THIS ISSUE 22,975 Subscriptions received at Conservation Commission, 10th and Mulberry, Des Moines,

interesting and informative ac- such as slowly moving fish, turcount of the daily life and habits | tles, mussels and crabs. of the musquash or muskrats, also as to how they are trapped, read the article in the Iowa Conservationist for October 15, 1943, on "Under-Ice Trapping for Muskrats, Most Valuable Fur-Bearing Glen Yates, conservation officers.

Musquash Versus Muskrat as A Food

names always awake certain methods of preparation used by G. F. LARSEN Council Bluffs any effort made to reestablish Woods (1848), one learns that the the use of the flesh of this animusquash or muskrats belong to musquash meat was used for winmice, rats, beavers, rabbits, squir- ers. foxes, raccoons, owls, and the it was practically discontinued.

was around \$385,966.00. For an Nor do they scorn animal foods

The Musquash Has Been And Is Used as A Food

The flesh of the musquash or muskrat was eaten and relished by the Indians and early trap-Animal", by Frank Tellier and pers and woodsmen. Colonists soon learned to cook them with corn, Indian style, eat them and like them. Roasting them over the glowing coals of campfires The following adage, "Certain was one of the most popular "musquash are their principal mal as a food. The fact that the food on these expeditions". Dried a large group of rodents including | ter food by the Indians and tradrels, and porcupines, and that The native Indians of this acquaint Iowans with the life and they have slightly webbed hind country used game and fur ani- economic value of each kind of feet and long, narrow, rudder- mals only for essentials-not for wildlife. To arouse an interest like tails, particularly useful in the fun of hunting. As settlers in the food value of wildlife in swimming, does not make rats out arrived and civilization prog-general and to stimulate the use of them. They possess strongly ressed, the attitude toward game of many of them in the diet has developed instincts for self pres- gradually changed, with increas- been the purpose of a special ervation. Sites for their houses ing emphasis on the use of game study in progress this last year are chosen in or near marshes, largely for recreational purposes, at Iowa State College. The Fish on lake edges and in creeks and and with little or no thought to and Wildlife Service of the U.S. shallow rivers. The houses are the food value of the kill and its Department of the Interior, The built to offer protection from ex- conservation. The use of many treme cold, floods, droughts, and of the small fur-bearing animals the Iowa State Conservation Compredatory weasels, minks, red as food gradually declined until mission are cooperating in this like. Their fierce or pugnacious | Within the last 40 or 50 years | under the direction of Dr. George natures make them good self de- efforts to revive interest in these O. Hendrickson, Assistant Profenders on land. They are clean mammals as desirable foods have fessor of Entomology and Ecoin their habits and keep their met with variable success in the nomic Zoology, and Dr. P. Mabel homes clean. The marshes are different states. States such as Nelson, Head of the Food and Nutheir storehouses the year round, New Jersey, Pennsylvania, Dela- trition Subsection of the Home providing them with most of their ware, Maryland, Virginia, Michi- Economics Division, and recently foods such as three-square sedges, gan, and Louisiana have succeed- appointed Dean of the Division to rushes and cattails; the stems and ed fairly well in reestablishing succeed the retiring Dean, Miss leaves are eaten during the sum- the musquash or muskrats, also Genevieve Fisher. The writer of mer, and the roots and root called marsh rabbits or marsh this article is in charge of the stalks in the winter. They can hares, as food. For the last 36 study. All products prepared in be destructive to nearby rice and years or so they have been sold the laboratory were scored on cornfields and vegetable gardens. extensively in some of the mar- aroma, flavor, and texture by a

kets in the larger cities. The demand for them during the trapping season, which extends usually from November to April, frequently exceeds the supply. They are sold as marsh rabbits; however, no attempt is made to conceal the fact that they are muskrats. Featured at church dinners and banquets for various organizations and clubs, the musquash has become known to many and is bought and eaten by all classes of people in these states. As the musquash are trapped for their fur, the meat can be prepared for the market with little additional labor and, therefore, sold cheaply.

Musquash As Food in Iowa

Iowa has a wealth of wildlife, including native fish. The state

lowa. Send coin, check or money order.

Conservation Commission Military Service Honor Roll

ALEXANDER, EDW MORF W J *ALEXANDER, C.R. * OLSON, HERMAN ★BAKER, MILFORD ★ PARTRIDGE, W.F BERRY, REE M. * PULVER, ROBT *BAER. KENARD * RECTOR, HARRY *BJORNSON, H *RECTOR, JAS *BUTLER, VAN *RIPPERGER, H CHRISTENSEN, C. * ROKENBRODT, F COLBY, HUBERT TRUSH, WA *COOPER, ROBT *SEVERSON, B ★ COOPER WILSON ★ SIMENSON, H *FABER, LESTER *SJOSTROM, R *FARIS, LYNDEN *SLYE EDW FINK, LAVERNE STARR, FRANK ★FLICKINGER,V.W. ★STEMPLE, E ★GEE, RICHARD ★STUFFLEBEAM.D GRAVES, LEROY SWEENEY, ROBT. ★GRAESING, H ★WHALEN, JOHN ★HARVEY, WALT ★ WILDE, MILTON *HAUGSE, JOHN *WILSON, DON *HEFTY, ALBERT *YOUNGBLOOD, M. *HOFFMAN, G YOUNGERMAN, W *HOFFMAN, M. *HUGHES, DAVID *HUGHES, DON +HUSTON, TAYLOR * JAGO, EARL **★**JOHNSON, WA **★**JOHNSON.HC *KENNEDY, WAYNE KESTER, GEO *LEPLEY, CHAS

is following a definite program to American Wildlife Institute, and project. The work is being done panel of staff members chosen

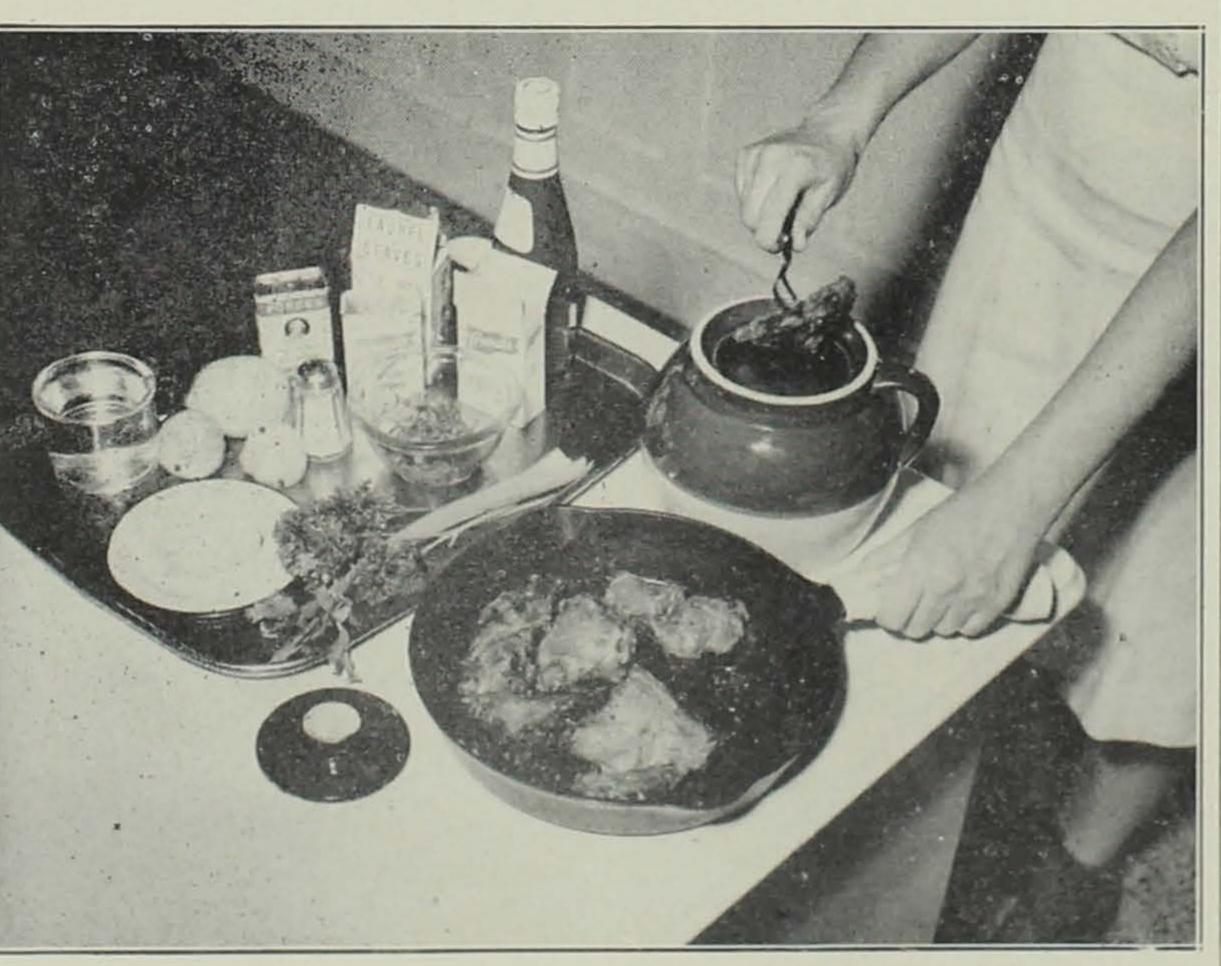
MADDEN, KM ★MCMAHON.A.E *MOEN, THOS

The Versatile Musquash

(Continued from Page 73)

land I (1666), the Indians are given credit for making "furs and skins of beavers, otters and muskrats vendible, and selling them to the inhabitants."

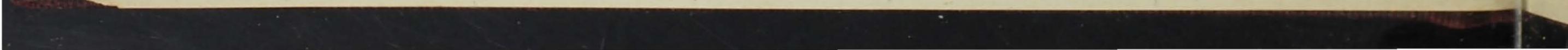
The development of the fur industry in this country has been rapid. During World War I fur workers were brought here from Europe to work on the crude skins. Today America is the greatest producer and consumer of furs, and the musquash or muskrat is the leading fur-bearing animal. About 17 million pelts of musquash are said to be taken annually. Iowa averages from 263 to 350 thousand per year. trappers in the 1942-43 season ous kinds .- Iowa State College Photo.



Jugged Musquash. Old but new. Don't let the tray full of ingredients frighten you. With the average value of a pelt | They are listed in the recipe and you'll like the combination when served to you right out at \$1.47, the net returns to Iowa of the jug. Cookbooks dating back to the sixteenth century feature jugged meats of vari-

from the different divisions sponsoring the project. From six to 12 scored the different musquash dishes. The discussion and recipes that follow are based on the findings and high scores of the panel.

The musquash is one of the most numerous and valuable furbearing animals of the state. Several months have been devoted to the cookery of this game. Approximately 100 musquash or muskrats were sent to the College in two different consignments, shortly after the opening of the trapping season in November. They had been skinned, drawn, cleaned and were in good condition. Each one in the first lot was coated with a covering of ice to protect from excessive drying out of flesh, then sharp frozen and stored in an individual locker in the College locker plant. In the second lot each one was wrapped in waxed paper before freezing. There was no apparent difference in the keeping quali-(Continued to Page 77, Column 1)



IOWA CONSERVATIONIST

Postwar Program Planned

(Continued from Page 73)

results the recreation program must be correlated with and become a part of a comprehensive land and water use plan in which all use of these resources is dovetailed into an all-inclusive plan, providing an equitable distribution of benefits to all. Such a plan must include agriculture, forestry, flood control, hydroelectric power development, public water supplies, public health, manufacturing and industries, recreation, navigation, and all other interests.

The Conservation Commission's | Table A.

nd

m

Ise

as

ar

S. he

and

m-

his

one

rge

'r0-

C0-

bel

Vu-

me

itly

1 to

liss

of

the in

on

y a

sen

0n-

t to

ash eci-the

the

the

fur-

ate.

de-this

nus-

t to

con-

ned, pod first

dry-

arp

dual

ant.

was

fore

rent

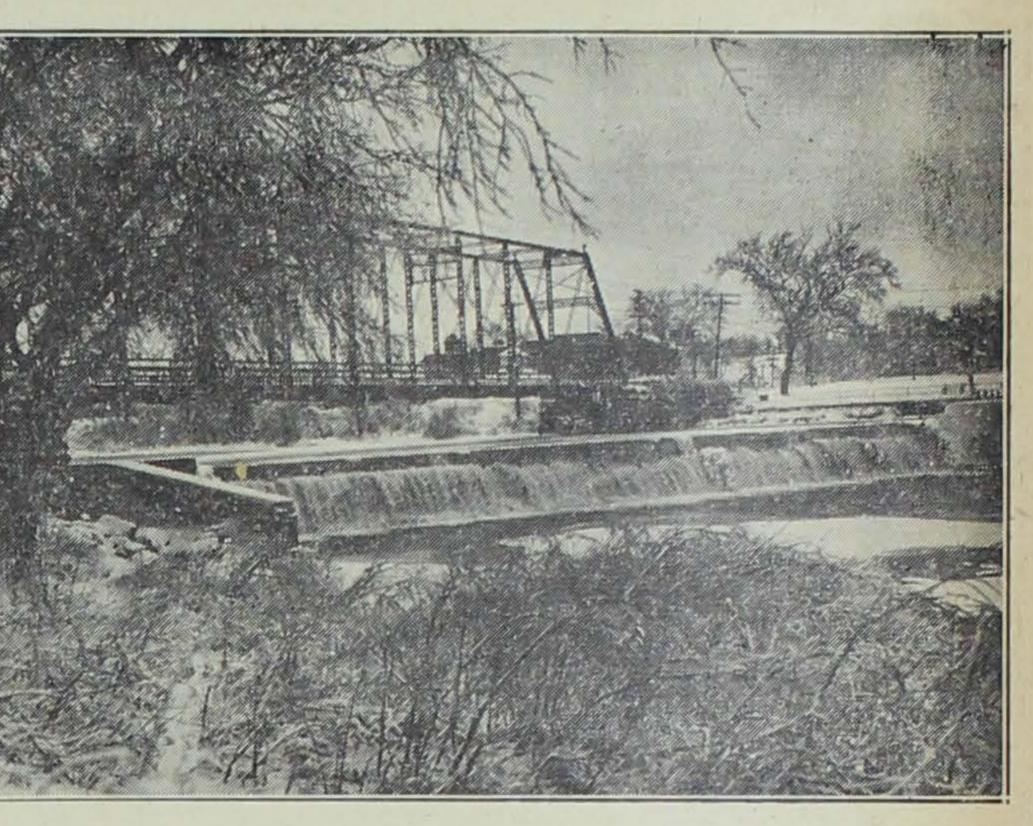
ali-

will definitely improve conditions for wildlife and recreation and which in the opinion of the Commission augment and are in harmony with other phases of an allinclusive conservation plan.

This proposal is presented in ation program must two parts, the first relative to be correlated with and areas already in state ownership, become part of a comthe second covering various extensions of the program. These water use plan that plans include research, surveys, planning, acquisition and development of land and water areas for recreation and forests.

The outline and estimates for work to be done on areas already in state ownership are shown in In providing maxi-

mum opportunities for outdoor recreation the State Conservation Commission is convinced that the recreprehensive land and provides equitable distribution of benefits to agriculture, forestry, recreation, navigation, power development, public health, water supplies, and all other interests. From a nar-



PAGE SEVENTY-FIVE

	nostwar program is to be a con- This \$7 147 650 program should re			fit to recreation, and other times these devel balance must come from legisla- tive appropriation. Costs over five-, 10- and 15- year periods for the first part of the plan are shown in Table B.		The second phase of the plan is the extension conservation pro- gram. Included in this program
		Estimated Man Days of Labor Provided	Labor Costs	Material & Equipment Costs	Total Cost	park and preserve areas; and pur- chase of public access on 2,000 miles of the best fishing streams.
	FISH & GAME Surveys, plans, buildings, roads, bridges, water supplies, fish screens, fishways, fencing, stream improvement, riprapping state lakes, outlet control dams, habitat im- provement, etc. DREDGING PROGRAM Dredging 28 lakes—3,914 acres	265,160	\$1,325,800 835,000	\$ 674,200 1,670,000	\$2,000,000 2,505,000	This program can be accomplished as fast as and with what- ever funds are provided. Labor and cost estimates are shown in Table C.
	Development on present state areas: Roads, bridges, power lines, buildings, sewage systems, water supply, fencing, dams, timber improvement, landscaping, ero- sion control, etc.		1,020,250	248,150	1,268,400	Annual Fur Bearer Take (Continued from Page 73)
	STATE FORESTS On existing forest areas: Roads, bridges, fire trails, fen- cing, timber stand improvement SURVEYS & MAPPING		874,250	90,000	964,250	season reached an all-time high in Iowa and totaled \$2,961,462.55. Without increasing the number of
	On state-owned areas: State lakes, marshes, and land to determine high water and property lines		365,000	45,000	410,000	animals that were taken, this fig-
	TOTALS	850,160	\$4,420,300	\$2,727,350	\$7,147,650	ure could have been boosted, ac- cording to reliable authorities,
	Table B DEVELOPMENT WORK ON AREAS NOW STATE-OWNED					some 15 per cent, or \$444,219.38, merely by better handling of the pelts from the time the animals
	CONTRIBUTING AGENCY Over 5-Year Period Per Year Total	Over 10-Year Per Year	and the second	Over 15-Ye Per Year		were trapped until the raw fur reached the fur buyer.
	Fish & Game per Year (Hunting, fishing licenses)\$ 250,000\$1,250,000Conservation Appropriation (Legislative appropriation)\$ 1,179,530\$,897,650		\$2,500,000 4,897,650	\$ 250,000 226,510	3,397,650	Definite efforts are continu- ally being made to teach the new and remind the old trapper how to prevent loss of fur profit by
	TOTALS\$1,429,530 \$7,147,650		\$7,147,650			improper handling.
	T 11 0					Last year for the first time an

Table C THE EXTENSION CONSERVATION PROGRAM ESTIMATES

PROJECT	Man-days Labor Provided	Labor Costs	Equipment, Land Purchase, Material Costs	Total Costs
50 Artificial Lakes	750,000	\$3,000,000	\$2,000,000	\$ 5,000,000
State Forest & Marginal Land Extension: Pur- chase 500,000 acres marginal land at \$10.00 per acre, fencing, planting, timber improvement, buildings equipment etc	070.000	0 105 000	0.075.000	10.000.000
buildings, equipment, etc	670,000	3,125,000	. 6,875,000	10,000,000
serves	197,000	985,000	774,700	1,759,700
Program to acquire access to best fishing streams: Public access—2,000 miles	210,000	940,000	3,340,000	4,280,000

52,500

1,879,500

Last year for the first time an Iowa trapper, Clifford Walker of Ogden, won the national sweepstakes prize for the best handled animal pelt received by one of the outstanding fur houses in America. Walker, part-time trapper and in no sense a professional prepared a \$2.50 skunk pelt in such a manner that the judges awarded him the \$1,000 first prize.

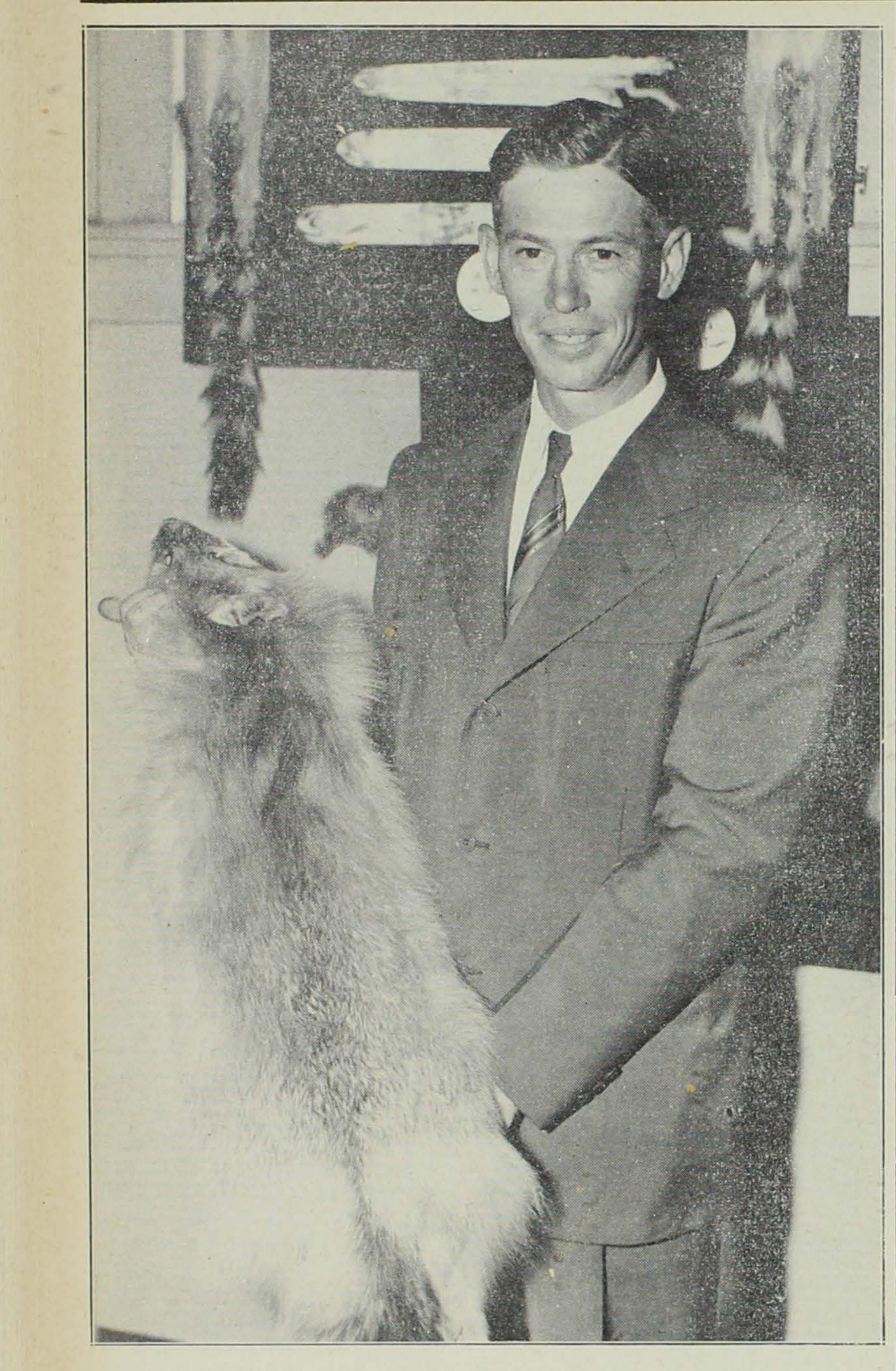
Of course that \$1,000 was extremely important to Walker. The

Surveys & Plans: For lake and marsh restoration, development of artificial lakes, public access to streams, marginal land, etc.....

program to teach fur handling 50,000 569,000 that resulted in the prize-winning 519,000 has been much more far-reaching \$21,608,700 \$13,039,700 \$8,569,000 than is shown by the dramatic **GRAND TOTAL OF ALL PROJECTS** award. Dollars and cents figures cannot be shown, but unquestion. .\$12,989,300 ably the increased value of fur: 15,767,050 brought to market because of the \$28,756,350 (Continued to Page 76, Column 1)

PAGE SEVENTY-SIX

IOWA CONSERVATIONIST

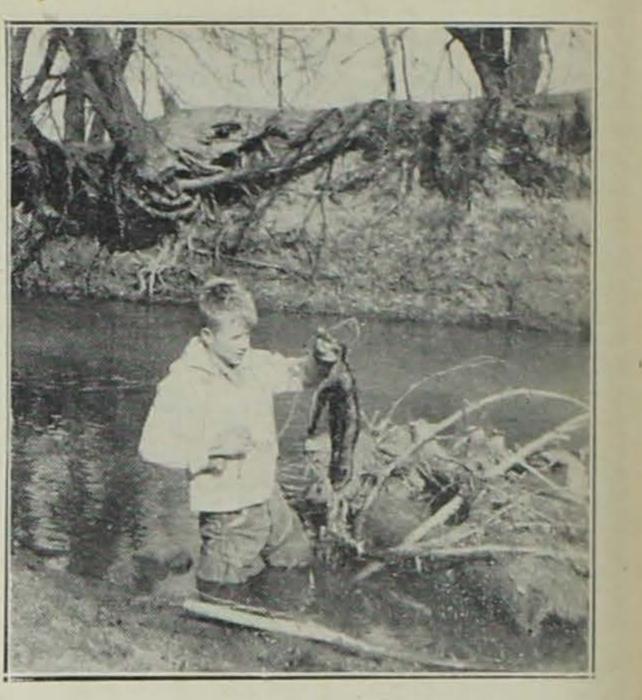


animal properly so that it is more valuable and acceptable to the fur buyer. This care will pay important dividends.

There are two methods used in skinning fur animals. Some pelts require one, some the other. The two types are called "cased" and "open" pelts, and operations are commenced in exactly the same way on both.

If the animals are dirty, bloody, or burr-covered, they should be cleaned up before skinning. Burrs may be picked out or removed with a coarse comb. The mud or blood stains may be washed out in cold water, after which the fur should be thoroughly dried by shaking or drying with a cloth.

In the actual skinning operation the first step is to cut around the hind paws at the hair line and slit the skin up the backs of the hind legs to the base of the tail. Cut through the tail without cutting the skin, except with muskrat and opossum, the tails of which are thrown away. Then work the skin carefully away from the flesh of the hind legs. For cased pelts the skin is removed from the carcass by peeling like a stocking turned wrong side out. The forelegs are pulled through and, except in the case of certain animals on which the forepaws are left attached to the skin, the skin is cut through at the hairline and pulled off the forelegs. The skin is then carefully pulled over the skull until the cartilages in the ears are revealed. These are cut through close to the base of the skull without injuring the skin. The eyes, nose, and lips are cut loose in the same manner. In skinning out the head care through the skin.



The trapper may sell furs either locally or to buyers within the state without securing a permit to ship. However, for all furs shipped outside of lowa, except by licensed fur dealers, a permit must be secured from the State Conservation Commission, 10th & Mulberry, Des Moines 8, Iowa.

Last year for the first time an lowa trapper won the national sweepstakes prize for the removed from the carcass by slitting the pelt down the center of best-handled pelt received by one of the outstanding fur houses in America. Here the prize-winner, Clifford Walker of Ogden, examines a fox pelt entered in the competition .the belly from the mouth to the Photo Courtesy of Sears, Roebuck & Co. tail, also down the inside of the front legs, except with beaver.

Pelts that are handled open are

The cut on the hind legs is made exactly in the same manner as for cased pelts, and as with cased pelts care should be taken in removing the skin from the head without damaging it.

After the animal has been skinned, the next step in proper fur handling is to remove the fatty tissue that adheres to the flesh side of the pelt. The reason for this operation is to prevent the skin from "heating or burning" and causing the hair to "slip". The most commonly used system for fat removal is to slide the pelt, fur side in, over a small fence post that has been anchored horizontally on the workbench. Then, scraping from the nose toward the tail with a dull knife, the tissue and fat are carefully worked off.

qua

car mu fell

we

ave diu

lar, est

are

don brit jagg red

to 1

With

mal

and

rath

degi ever

sam

in t

and

mus

quit and

liker ducl

Othe

mon

the

with

In some of the large fur houses should always be taken not to cut where muskrats are the most important item, great success has been had with fat removal by running the green muskrat skins through the tight-set rollers on the wringer of a washing machine. The final step in skin preparation is to "stretch" the pelt and allow it to dry. The term "stretch" is not quite correct, for fur should not be stretched, but rather blocked. The pelt is placed on wooden or wire stretchers that will shape it to natural size, skin side out, and as it dries the skin tightens, taking out the slack. The trapper will do well to remember that stretching merely means helping the skin retain its proper size and shape while drying. After the fur has been placed on the drying board and tacked down, it should be placed in a cool, well-ventilated building for several days to dry. Do not try to hasten the drying process by the use of artificial heat, and never place a raw skin in direct sunlight. After the skin is thoroughly dry, it may be removed stretched and is almost in the "junk" class. from the stretcher. Collections

Annual Fur Bearer Take

(Continued from Page 75)

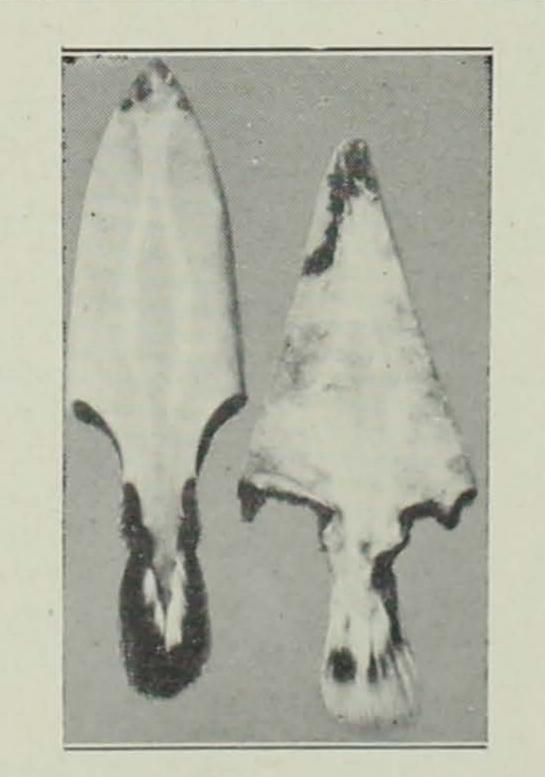
trappers' understanding of what constitutes properly prepared fur has been very great.

Open seasons on fur-bearing animals are not set so that the weather will be cold and disagreeable for the trapper, but rather when furs are most nearly prime (that is, heavily furred) and of greatest value to the fur manufacturers, who in the final analysis determine what price shall be paid for each particular fur. The trapper who traps before the furs are prime not only violates the law, but also gets less in cash for his labor. The early trapped skin may not find its way into a fur garment, or if it does, is of little value. For instance, last year unprime muskrat skins taken illegally brought 25 cents

in bootleg markets. Six weeks later the same skins were bringing more than 10 times as much.

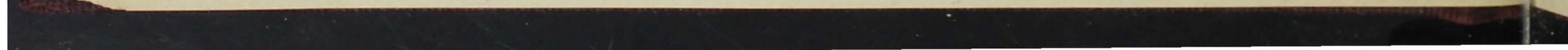
While loss from poorly primed furs is an important item, it is not the most important, for the simple reason that most trappers are law-abiding and squareshooters. However, even the square-shooters quite often have considerable loss on furs that are marked down for improper skinning and stretching.

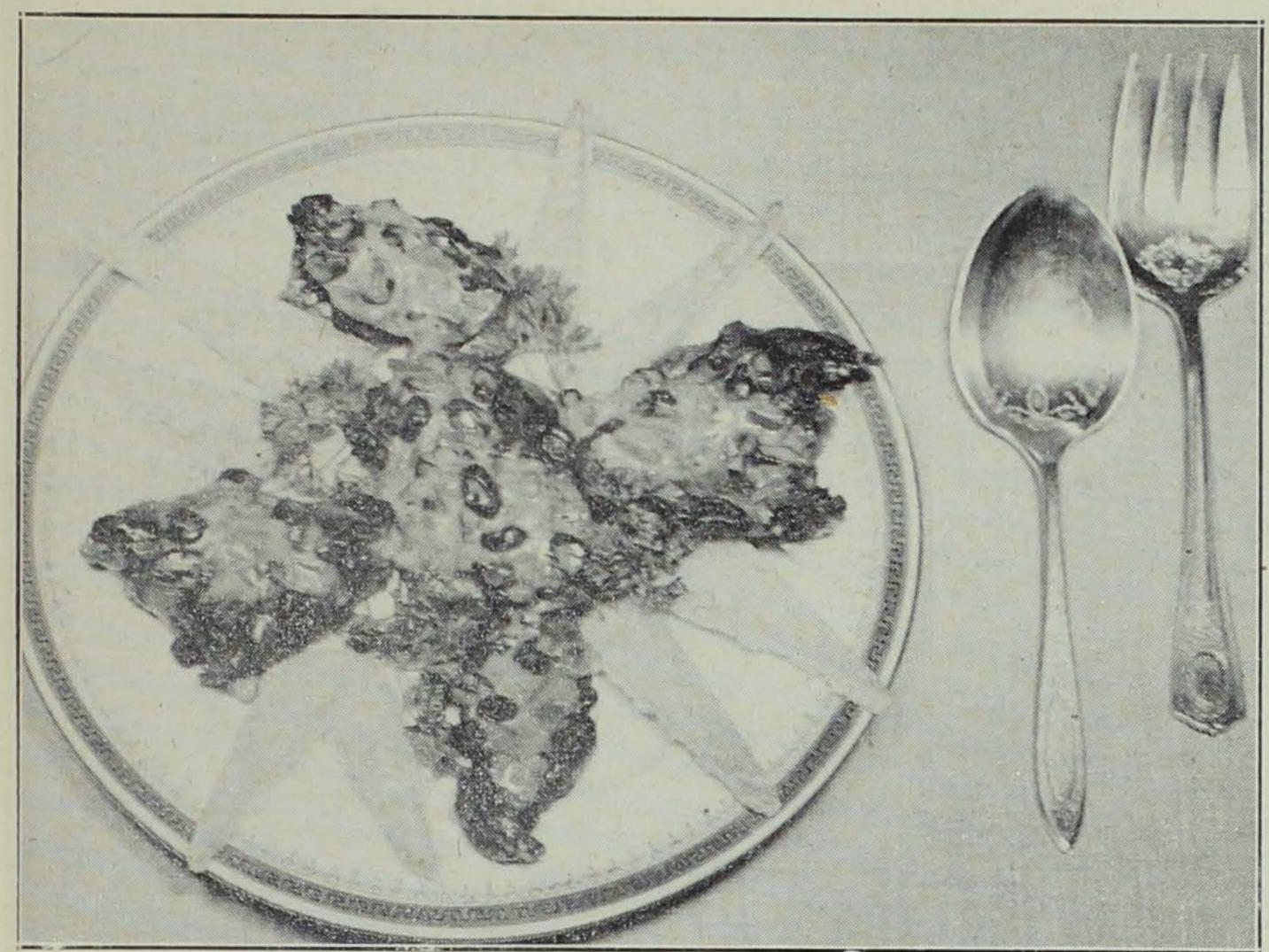
•Exact methods for skinning various animals have been developed by the fur industry so that there is little or no waste of raw fur. If a properly skinned musrat provided 100 square inches of useful fur worth \$2.50 and an improperly skinned muskrat provided only 80 square inches of fur, what trapper could expect to get \$2.50 for the latter?



Clifford Walker's \$1,000 pelt was a \$2.50 skunk skin as shown at the left. The righthand pelt, while prime, has been improperly Learn how to skin your trapped | — Photo Courtesy of Sears, Roebuck & Co.

(Continued to Page 78, Column 4)





IOWA CONSERVATIONIST

PAGE SEVENTY-SEVEN

young rabbits and squirrels, can utes. Add 1 tablespoon hot wabe cooked by dry heat, and are ter, cover tightly and bake in good broiled, fried, baked or slow oven (300 deg. to 325 deg. F.) roasted. Older musquash are about 1 hour, turning pieces once better if cooked by moist heat and adding hot water by tablefor a long time as in braising, spoonful, as needed. stewing, and in casserole dishes, 4. Arrange on hot platter, garor by grinding the raw or cooked nish with broiled small orange meat and using it in dishes such slices topped with a spoonful of as patties, fritters, croquettes, apple or red plum jelly on each, burgers, or meat loaf. A few sprigs of parsley or water cress. representative recipes have been Makes about 4 portions. selected. The illustrations are Musquash Sauerbraten self-explanatory. Those who enjoy the thrill of a new food-1/2 good and different, too-will do Dash a bit of adventuring after pre-Dash paring these recipes. Here is a suggestion: Substitute musquash for chicken or rabbit in favorite recipes. You'll like broiled, fried, J cups water 1/2 bay leaf or baked young musquash; smothered, fricasseed, barbecued, or ragouted older musquash; musquash burgers, patties or loaf for picnics; left-overs made into pies, casseroles, creamed dishes or even hash. Iowa's annual supply of musquash meat, available as human food during normal years, is from 250,000 to 500,000 pounds. An excellent protein food of animal origin is wasted when this meat is not used in the diet.

usquash	1 medium onion,
teaspoon salt	sliced
n of pepper	1/4 cup chopped green
n of nutmeg or	pepper or parsley
nger	2 tablespoons chopped
blespoons vinegar	celery
blespoons sugar	1/2 cup raisins
inc water	7 tablassan Asur

Musquash Sauerbraten is not too different from your favorite meat prepared this way. Use the recipe for some of the heavier musquash. You'll like the modified game flavor. Try broccoli or green snap beans with parsleyed buttered potatoes as a setting for the pieces of musquash.-lowa State College Photo.

The Versatile Musquash

ade

ased

re.

nead

Deel

oper

the

the

rea-

pre-

g or

ir to

used

slide

mall

ored

ench.

e to-

nife,

fully

ouses

t im-

has

1 by

skins

s on .

ma-

para-

t and

term

t. for

1. but

lt is

retch-

atural

dries

it the

well

hing

skin

shape

placed

acked

in a

ng for

ot try

ess by

t, and

direct

thor-

moved

ections

14)

(Continued from Page 74)

ties of the two methods used within the three months the musquash were held in storage. The musquash, skinned, and

carefully drawn to remove the musk glands with the entrails, est one weighed 22 ounces. They these parts. are muscular rather than fat ani-

iking for it, even in time become a worthy epicurean. The musky odor which pervades the flesh of musquash during the summer months disappears with cold and frost, and unless the musk glands are carelessly removed, the meat should have very little if any of it. Before preparing a musquash, fell into three rather distinct or in fact any game, and espeweight groups: The small ones cially game that has been held in averaged 13 to 15 ounces; the me- storage for some time, it is wise dium-sized, 17 ounces; and the to examine the flesh carefully for large ones, 19 ounces; the heavi- any strong odors and discard

The musquash supply superior mals, with well-developed hind proteins to a diet equal in value legs but short fore legs. Some to the proteins in meats, poultry, ent little or no data on the composition of game including the musquash are available, and all statements made as to their actual food value are general rather than specific. **Cooking Musquash Meat**

Breaded Musquash

musquash 1/2 tablespoon water 1/2 teaspoon salt 1/2 cup fine bread 1/8 teaspoon pepper crumbs 1/4 cup flour 3 tablespoons fat 1/2 egg, or 1 egg yolk beaten

1. Soak musquash in slightly salted water or weak vinegar brine overnight or for 24 hours, changing brine once. Wash thoroughly, removing all blood and a boil and pour over meat. fat. Disjoint and cut into pieces

I Lablespoon nour 1/4 cup sour cream 2 tablespoons fat

1. Soak musquash in slightly salted water overnight; wash thoroughly, removing all blood and visible fat. Disjoint and cut in pieces for serving; drain.

2. Rub pieces with mixture of salt, pepper and nutmeg or ginger; place in crock or deep pan. Pour 2 cups of boiling hot mixture of vinegar, sugar, water and bay leaf over meat and let stand 4 to 8 hours. Remove meat and drain; discard mixture in which meat was soaked.

3. Brown meat in hot fat in heavy frying pan, turning to brown all sides; remove meat to stewpan. Cook vegetables slowly in fat in pan about 10 minutes, turning to brown slightly; sprinkle over meat. Add remaining 1 cup of vinegar-sugar mixture to drippings in pan, bring to

4. Cover tightly and simmer

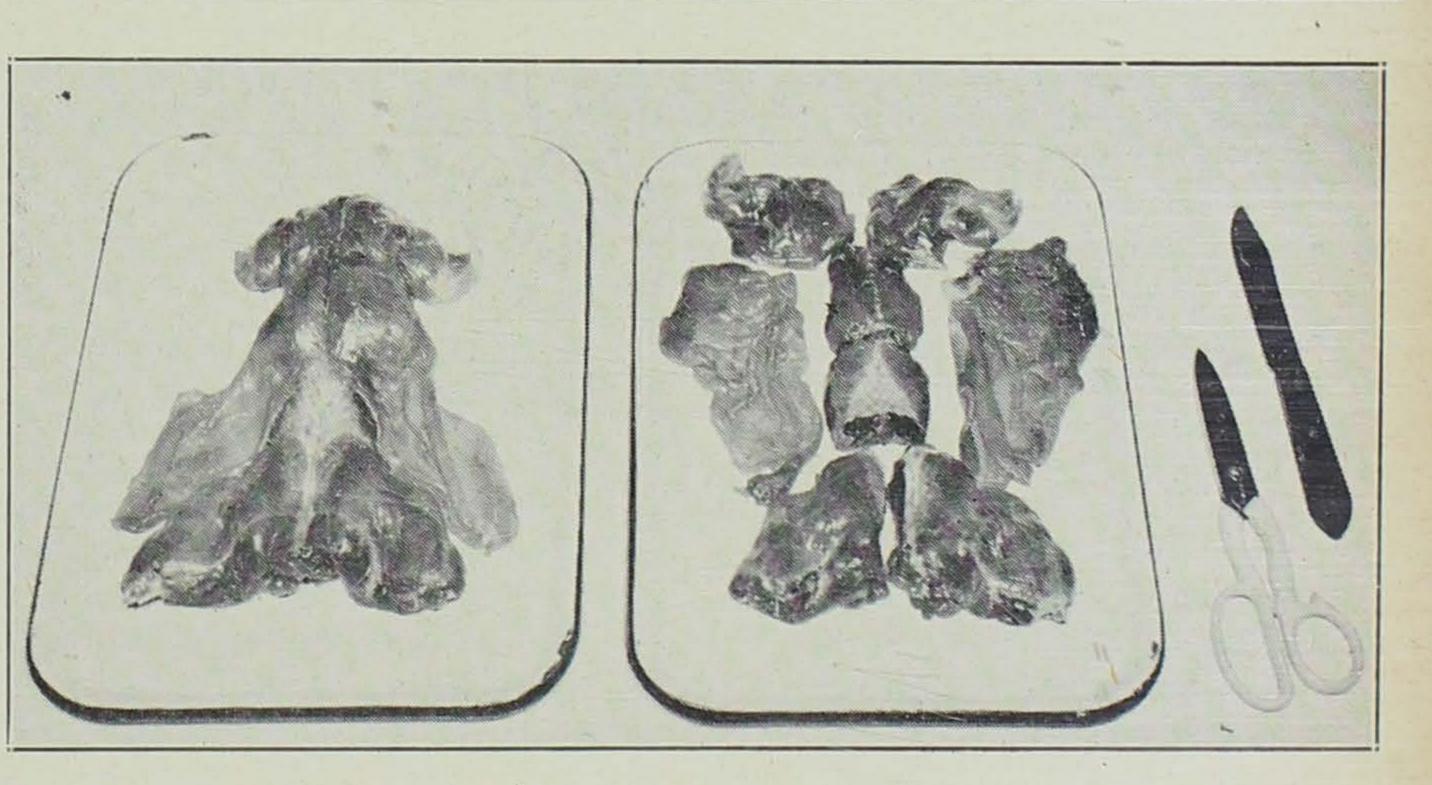
fat is distributed around the ab- fish and other game. In addition, dominal cavity. The bones are they contribute the different minbrittle and break with a rather erals and vitamins usually found jagged edge. The flesh is dark in animal protein foods. At presred in color; the fore part is likely to be darker and more diffused with blood in the trapped animal. The flesh has short fibers and is tender. The musk or rather gamy odor may vary in degree in different carcasses and even in different parts of the A preliminary soaking of the same one; it is usually stronger carcasses overnight or longer, in the heavier carcasses. Flavor either in a weak brine solution and aroma are closely allied. The (1 to 4 tablespoons salt to 1 quart musquash has a game flavor, of water) or a weak vinegar quite different from most game brine (2 tablespoons each salt and and difficult to describe. Some sugar, and 1/4 cup vinegar to 2 liken it to the flavor of the wild | cups of water), improves the apduck which has fed on marshes. pearance and flavor of the flesh. Others think it has much in com- The blood diffused throughout the mon with the famous terrapin of fresh is drawn out and the gamy the Chesapeake Bay. Some think odor and flavor reduced. The it gamy and like it very much. vinegar brine definitely modifies Others will eat it but are not the "wild taste" and darkens the especially enthusiastic, and then meat. The members of the panel

about 1½ hours, or until tender, for serving. 2. Roll pieces in seasoned flour,

dip in egg mixed with water and roll in crumbs.

3. Drop into hot fat in heavy frying pan and brown on both sides, allowing from 7 to 10 min-

adding a small amount of hot water if needed. Arrange meat on hot platter and keep hot. 5. Add raisins to liquid in pan; thicken with flour and sour cream (Continued to Page 78, Column 1)

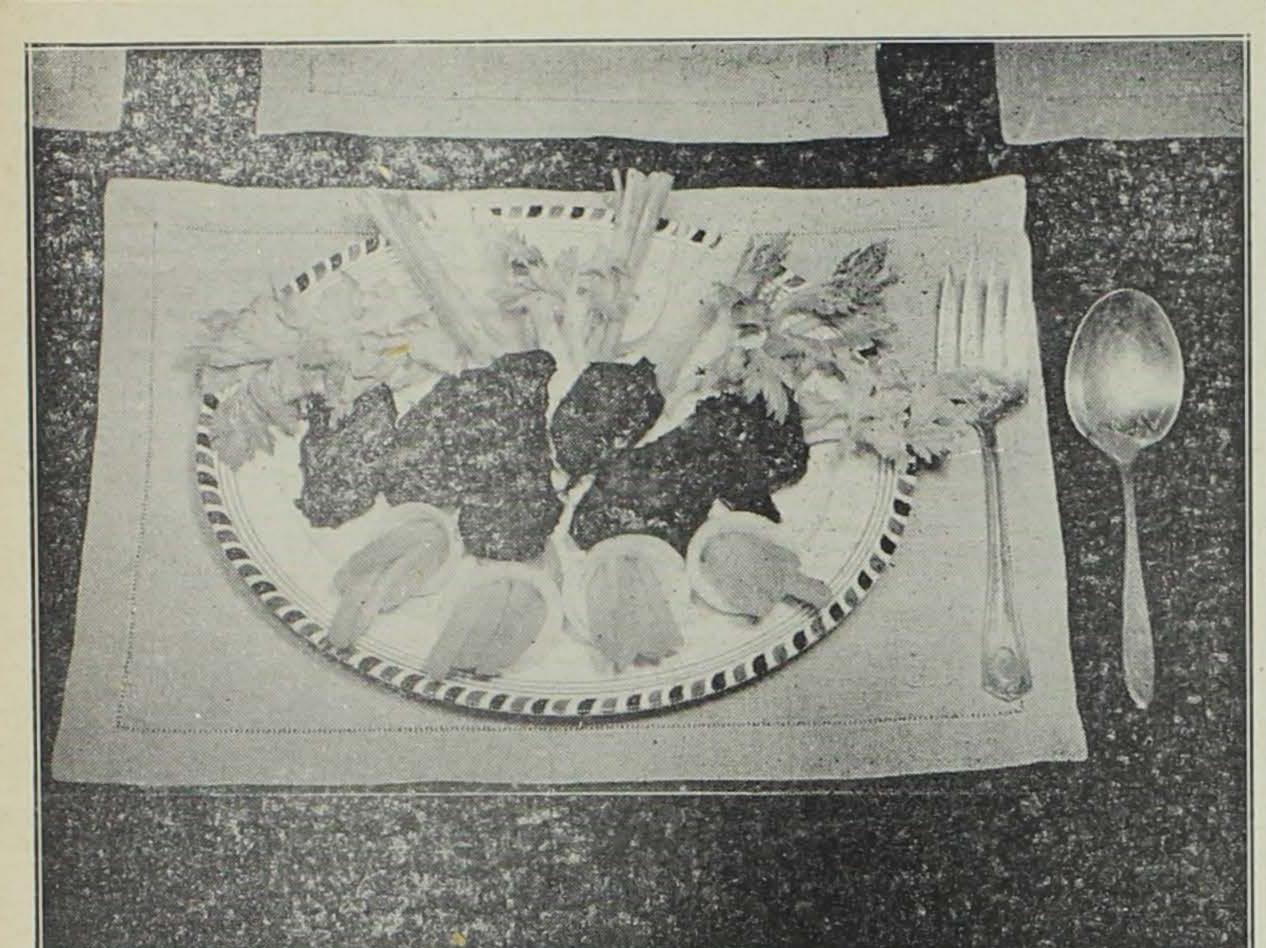


As the illustration to the left indicates, the aquatic and largely vegetarian musquash is a small animal with meaty hind legs and a muscular back, well-developed from swim-

there are those who dislike game were divided as to choice, the maming, and small rather under-developed front legs. The large, thin apron-like flank and flavor of any kind. How true is jority preferring the brine treathuge chest cavity with its long ribs are extensible to take care of the bulky diet of the the old Latin proverb, "There is ment. All blood and visible fat no disputing about tastes." Those should be removed and the carmusquash. With sturdy kitchen shears and a sharp knife, the carcass is easily dismembered into eight who like game will find the fla- casses washed thoroughly in runpieces as indicated to the right. The legs and back pieces make four small or average vor of musquash different from ning water after soaking. servings. The flank and rib pieces are juicy and good but unattractive as servings. With The methods used in the cookmost anything they have eaten. bones removed these pieces measure 1/3 cup (11/2 oz.) solidly packed. One cup from the Excluding strong prejudices, any- ing of meats, poultry and fish are flanks of three musquash will make a delicious meat loaf, patties, and the like .-- lowa State one who approaches a new food used in the cooking of game of with an open mind can cultivate a all kinds. Young musquash, like College Photo.

PAGE SEVENTY-EIGHT

IOWA CONSERVATIONIST



Mudhen Good for Food

Mitchellville, Iowa. Editor, Iowa Conservationist State Conservation Commission Des Moines, Iowa Dear Sir:

streams and marshes, I have dis- of an inch or two between each covered that the American coot, pelt for air to circulate. Under more commonly known as mud- no circumstances stack green hen, is very good for food if hides for any length of time. properly prepared. It seems as though some of us are slow to buyers, as well as many out-ofcatch on, and I can remember state dealers, any of which will that on many hunting trips I held be glad to give directions for the the coot in more or less contempt packing and shipping raw furs. four and wondered just why the bird The trapper may sell either lowas ever created-half chicken cally or within the state without The and half duck.

bird of great beauty, but it is very ers outside of Iowa, the seller, un-like desirable for the table. I had less he is a licensed fur dealer,

Annual Fur Bearer Take

(Continued from Page 76) of furs after they have been taken from the stretching boards are best held until marketing by threading on a wire stretched After 28 years hunting on Iowa from the ceiling. Leave a space

There are hundreds of local fur a shipping permit. However, for It is true the mudhen is not a all furs that are shipped to buy-

peri

forn

vou

an o

one

prac

boat

rely

mati

aske

it go

Hot

are a

boat

man

"Boa

num

desig

load

er; w

factu

es: d

regul

arour

place

tion:

Doat

quip

Breaded Musquash. These golden brown breaded pieces of meat will keep your guests guessing. Dress them up with attractive vegetable combinations. Asparagus tips bunched in onion rings, curled crisp celery, and tender celery leaves add to the attractiveness of this platter .-- lowa State College Photo.

The Versatile Musquash

(Continued from Page 77)

mixed to a smooth paste. Pour small amount of sauce over meat on platter; serve remaining sauce in bowl. Garnish with toast triangles and sprigs of parsley or water cress. Makes about 4 portions.

Jugged Musquash

2 musquash	1/4 teaspoon thyme or	
1/3 cup flour	1/2 teaspoon nutmeg	
3/4 teaspoon salt	1/4 bay leaf	
1/4 teaspoon pepper	2 medium onions	
3 tablespoons bacon	6 whole cloves	
drippings	1/4 lemon	
1 cup water	11/2 tablespoons	
2 tablespoons chopped	ketchup	
parsley	2 tablespoons butter	
2 tablespoons chopped		
celery		
	uash in slightly	
	ernight or for 24	
	TTT L	

beans, or spinach. Makes 6 to 8 portions. **Baked Musquash Barbecue** musquash 1/2 clove garlic, 3 tablespoons fat crushed 2 tablespoons vine- 1/2 teaspoon salt 1/8 teaspoon black gar 2 tablespoons tomato pepper Dash of cayenne ketchup 1. Soak musquash in slightly salted water or in a dilute vinegar brine for 12 to 24 hours. Wash e or thoroughly removing all blood meg and visible fat. Cut in pieces for serving; drain. 2. Place in greased shallow pan; baste with sauce made of remaining ingredients. 3. Bake, uncovered, in modertter ate oven (325 deg. to 350 deg. F.) for 11/4 to 11/2 hours or until tenntly der, basting every 15 minutes with sauce.

4. Place on hot platter, garnish

without much flesh, but this is the State Conservation Commisfar from true, and coot are in- sion, 10th & Mulberry, Des variably in fine condition during Moines. the hunting season.

In preparation we cut off the feet and skin by cutting straight down the breast from the neck to the tail. Then with both hands pull the skin both ways until the entire breast and lower . thigh joint are exposed. We cut out the breast meat and cut the thighs from the back. This completes the job, for there is very little meat then left on the carcass, and that which is left is strong and if cooked with the better portions gives the whole dish a strong flavor. It is important that all the strong-tasting fat from legs and breast be removed before cooking. The flesh from each dressed bird will weigh approximately a pound, exclusive of the very large gizzard, which many of my friends hold in high esteem.

In cooking coot we steam

always believed that it was thin must secure a permit to ship from deal



To those poor unfortunates who have ers." never experienced the thrill of "stringing Th steel", the hardship and physical punishment very that even a modern-day trapper endures serve seem fantastic; but trappers as a group are ing the most impatient of all the outdoor en- more thusiasts for their season to open.

them, putting the well-salted they fall to pieces and discarded. from meat with about a half cup of The coot is then served with sage boats I think if more hunters tried that in long slivers in the pan to ab- this dish the American coot Usual sorb the gamy taste. The roast- would no longer be called "muder is then covered tightly and the hen", but would be addressed Yours truly, (Signed) Thomas S. Wildman. Water

thoroughly, removing all blood with parsley, celery leaves or and visible fat. Cut in pieces for curly endive, and serve with serving; drain.

hours, changing brine once. Wash

with salt and pepper. Fry in hot leyed potatoes and beet greens; fat, turning to brown both sides. baked sweet potatoes and green Allow about 10 minutes.

3. Place meat in large bean jug tions. or earthenware pot; add water to drippings in pan and bring to a boil.

4. Sprinkle parsley, celery and thyme over meat; add bay leaf, onions with 3 cloves inserted in each, lemon (juice and peel), and ketchup; pour hot water with drippings over all, adding hot water as needed to barely cover the meat.

oven (275 deg. to 300 deg. F.) for 2. Put meat, suet, onion and 2½ to 3 hours, or until very ten- celery through food grinder; run der. Half an hour before meat is through the second time for finer done, add roux of butter and 1 grind. Add seasonings and bread tablespoon of remaining seasoned soaked in hot water or milk and flour to thicken liquid.

vegetable combination such as: 2. Roll pieces in flour seasoned fried onions and carrots; parssnap beans. Makes about 4 por-

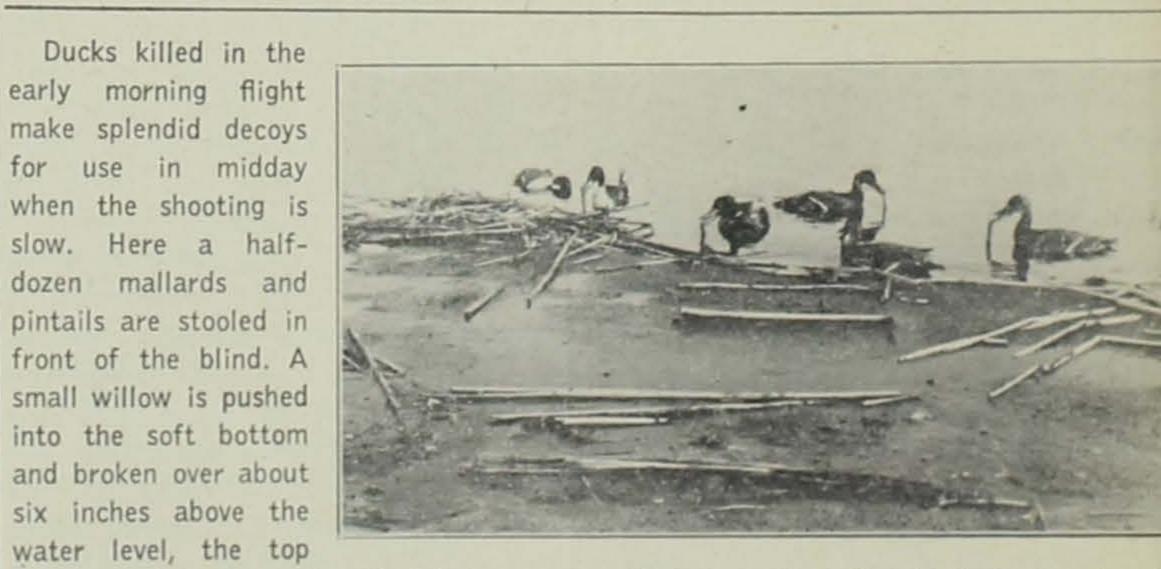
Musquash Burgers

Dash of cayenne 1 musquash Dash of sage, thyme 1/8 pound suet 1/2 medium onion or nutmeg 1/2 slice white bread 1 stalk celery 1/4 teaspoon salt 1/4 cup hot water or Dash of black pepper milk

1. Soak musquash in slightly salted water overnight or for 24 hours. Wash thoroughly and remove meat from bones; makes 5. Bake, covered, in a slow about 1¼ cups, solidly packed. mix thoroughly.

6. Serve hot from jug or pot 3. Shape into patties and broil, with parsleyed potatoes and a panbroil or fry in a small amount

water in a roaster. In addition, and onion dressing. we put slices of white potato cut bird cooked at about 300 deg. F. with respect as "Mr. Coot". until done. The potatoes are removed from the roaster before



end placed between the ducks' jaws and adjusted so that the birds look natural. It 24/2 the shallow water one or more of the ducks may be placed in a feeding position similar to the 5 pintail at the left. This old market hunters' stunt proves particularly effective during the early part of the hunting season.

mildly flavored vegetable such as of fat 8 to 12 minutes, or until ties. For campfire or picnic large buns or slices of bread with carrots, squash, peas, green snap well done. Makes about 6 pat- serve between buttered halves of a generous dash of ketchup.



IOWA CONSERVATIONIST

Just a Dog

Reprinted from February, 1941, issue of Field and Stream) Freedom, New Hampshire November 24, 1940

Ray P. Holland Editor of Field & Stream New York, N. Y. Dear Ray:

In the selection of a boat, as in the selection of an outboard motor, it is in the long run best to rely on the knowledge and experience of others. Buy and use the type and size that others have found most satisfactory for the same purposes on the same water. The one place where all such information comes to a focus is your boat dealer who is also, very likely, your outboard motor dealer, too. A good boat and motor dealer would rather not sell you an outfit at all than see you get one that he himself knows is not practical or is unsafe for your boating conditions. It is well to rely on him as well as on information you get from other boaters like yourself. asked question is "How fast will are a lot of factors entering into boat speed. One outboard motor killed my bird dog. manufacturer has this to say: "Boat speeds are governed by numerous variables such as: Boat design; boat weight and length; load and trim; actual motor power; wind and waves; currents and tides; skill of operation—and others."

Know Your

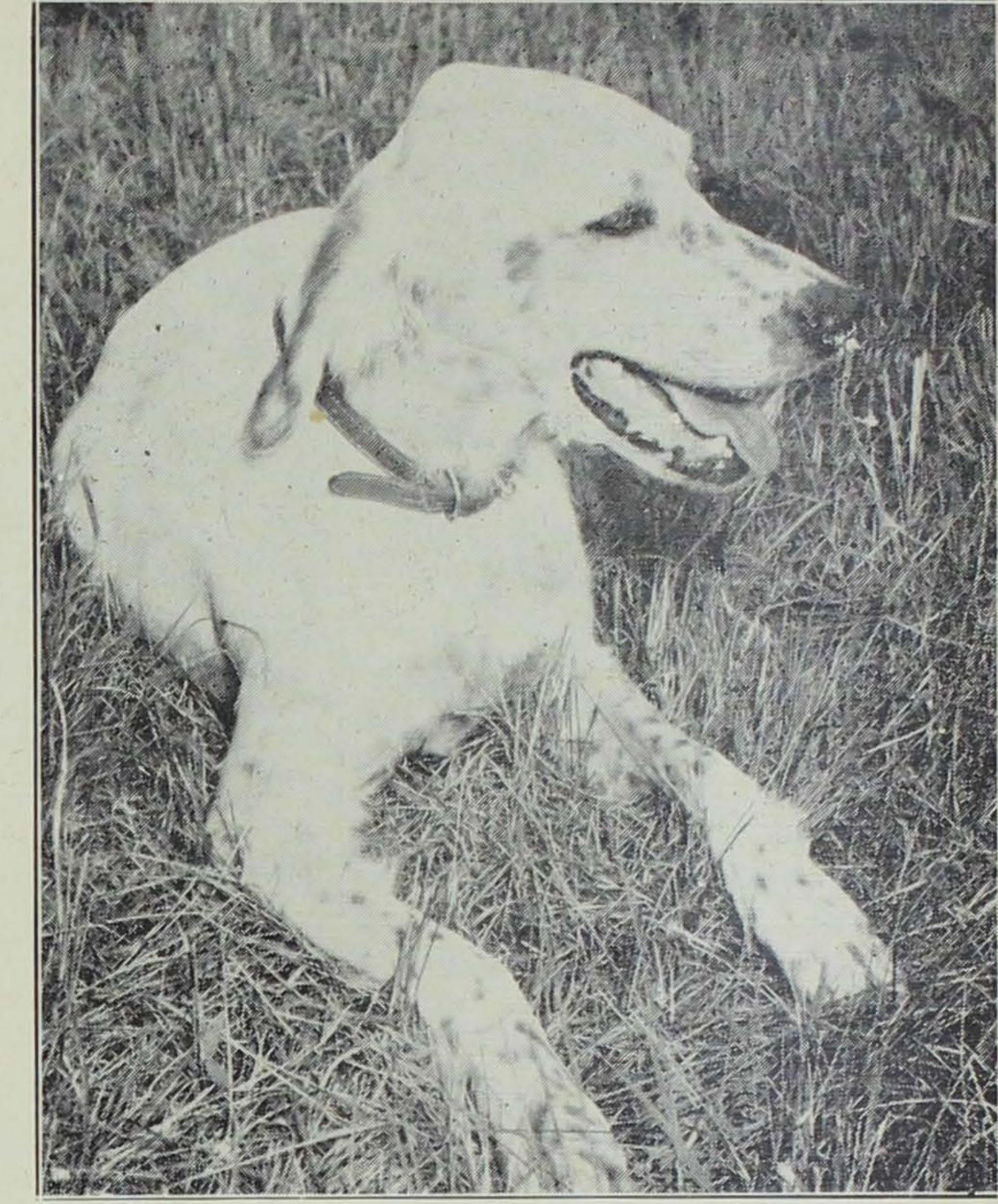
Outboard

Motor

It was just a dog-

I know this is a kind of unusual request but I'd like to borrow setter who was very some space in your columns to proud and staunch on write an open letter to a man 1 point, who always do not know. He may read it if held her head high, it is in your columns or some of and whose eyes had his friends may notice his name the brown of October and ask him to read it. You see, in them. it has to do with sport—a certain kind of sport.

just a little female



The man's name is Sherwood G. Coggins. That was the name on his hunting license. He lives at 1096 Lawrence Street, in Lowell. He says he is in the real estate and insurance business in Lowell.

This weekend, Mr. Coggins, you drove up into New Hampshire with some friends to go deer hunting. You went hunting who was very proud and staunch there is a flick in the bushes and Probably the most frequently on my property here in Freedom. on point, and who always held her you bring your rifle to your You didn't ask my permission; head high, and whose eyes had shoulder before you know what is it go?" That is similar to asking but that was all right. I let people the brown of October in them. there. "How far is up?" Because there hunt on my land. Only, while We had hunted a lot of alder

something in the bushes, and you this fall, and grouse, and in an-

you were hunting, you shot and thickets and apple orchards together, the little setter and I. She Oh, it was an accident, of knew me, and I knew her, and Then, Now and Later course. You said so yourself. we liked to hunt together. We You said that you saw a flick of had hunted woodcock together shot it. All you saw was the other week we were planning to flash of something moving, and go down to Carolina together and the "best hunting year in a decyou brought up your rifle and look for quail. But yesterday ade" will take any thought of

fired. It might have been another morning she ran down in the There are, nevertheless, a few hunter. It might have been a fields in front of my house, and very "general" rules which can child running through the woods. you saw a flick in the bushes, and years after the prophets of gloom As it turned out, it was just a you shot her.

-Corey Ford.

PAGE SEVENTY-NINE

Wonder how many of the half million hunters who will sally forth this month to participate in human endeavor that has made hunting possible in this state 50 had pronounced hunting dead for You shot her through the back, all time.

endure serve as a guide. The accompanyroup ing table is only that, and no dog. more, so please don't use it as a factual criterion.

door et

ardet boats again divide into two classh sal es: displacement boats and boats tion when operated with only that plane on top of the water five or six horsepower will plane trie Usually, any types of boat for the at considerable speed. regular use of motors up to Doubling the power on the "mu around six horsepower are dis- stern of a purely displacement Iress placement boats when in opera- type boat will increase the speed tion; they ride in and through the only a little. But if a suitable water. If, however, that same boat can be pushed "over the 1dma boat has a wide flat stern and is hump"-from down in the water equipped with a large motor, say to up on top-by getting it up to 16 horsepower, then, if the load speed, then at that point the isn't too heavy, it will become a speed may go up 50 to 100 per hydroplane. Many of the boats cent. All the racing records are built especially for large motors made with very small, light will plane with up to three or weight hydroplanes with motors four people of average weight that have been designed and Even a small boat of the fishing built especially for racing.-Johntype and of light weight construc- son Motors.

Just a dog, Mr. Coggins. Just you said, and broke her spine.

Weight

*Top Speed

enough for that.

n blood running from after go ahead to finer results. and down her white This is a heritage we owe to those hope you will see her who are to follow us-the free men and true sportsmen of the you will always see her future.—Ohio Conservation Bul-Coggins, whenever letin.

This situation did not just hapa little English setter I have She crawled out of the bushes pen. Individuals and organiza-It must be explained here that hunted with for quite a few and across the field toward you, tions have been wrestling with from the performance standpoint years. Just a little female setter dragging her hind legs. She was the problem of perpetuating fishcoming to you to help her. She ing and hunting since the danger was a gentle pup, and nobody had signals began to fly along late in ever hurt her, and she could not the last century. There was a understand. She began hauling lot of lost motion and mistaken herself toward you, and looking judgment and numerous misat you with her brown eyes, and takes in procedure, but out of the you put a second bullet through confusion has come restored wildher head. You were sportsman life and fish far ahead of the outlook back a couple of decades. I know you didn't mean it, Mr. Considering the vastly increased Coggins. You felt very sorry aft- number of hunters and fishererward. You told me that it men, and the absorption of habireally spoiled your deer hunting tat by the march of civilization the rest of the day. It spoiled and extended agriculture, the remy bird hunting the rest of a sources retained for sportsmen lifetime. are remarkable. It is such that At least I hope one thing, Mr. conservationists may well be en-Coggins. That is why I am writ- | couraged to go forward with the ing you. I hope that you will campaign to go farther and fare remember how she looked. I even better, especially in fundahope that the next time you raise mentals of water supply, erosion your shoulder you will control, forestry and law observver the sights, dragging ance. We must hold our forces ward you across the intact for the duration, and there-

	Motor H. P. Type of Boat	Boat	Boat	Range in	nope that t
	Motor II. I. IJpe of Dout	Feet	Founds	M.P.H.	a rifle to y
	11/2 to 2 Rowboat or Canoe	12-15	100-150	6-7	see her ove
	21/2 to 3 Rowboat or Canoe	12-15	100-150	7-8	herself to
	5 to 6 O.B. Boat or Fish Boat	12-16	125-200	9-10	field, with
t.	9 to 10 Runabout or O.B. Boat	14-16	200-300	10-18	her mouth
ŧ.	16 to 18 Runabout or O.B. Boat	14-17	200-300	18-25	chest. I h
	20 to 23 Runabout or Large O.B. Boat	15-18	300-500	22-30	eyes.
1	30 to 35 Runabout	15-18	300-500	25-35	
1	* M.P.HMiles per Hour.				I hope yo
	min min minos per mour.			and the state of the second second	leves. Mr.

Length

PAGE EIGHTY

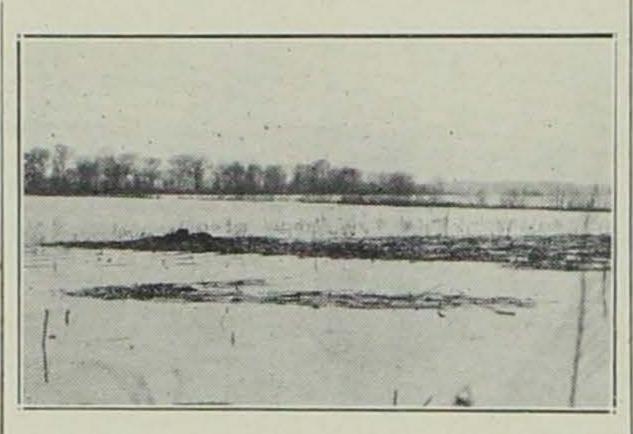
IOWA CONSERVATIONIST

Iowa Muskrat Situation In the Fall of 1944

By DR. PAUL L. ERRINGTON

Iowa's harvest of wild raw furs for the winter of 1943-44 was sold for a little less than three million dollars and was the most profitable in recent history. This was chiefly due to the abundance and high pelt prices of muskrats. The Conservation Commission reports a season's catch of 722,360 of these animals, which yielded trappers a total of \$1,625,310.00.

Naturally, a big question in the minds of trappers and fur buy- less young muskrats at a helpless stage. In ers relates to the 1944-45 pros- this marsh the water has covered the houses, pects of a muskrat crop. We can drowning the young. Two adult muskrats foretell the latter only in a broad are perched safely on the floating marsh way from the information at debris. hand, but the indications point to a considerably lower population equivalent. Such, for the 270over the state as a whole, al- acre marsh as it was in 1943, though perhaps still a fair abun- should have been a moderate and dance. It also seems quite prob- most productive breeding density. able that many fall populations On the basis of information from (especially those of streams sub- long-time researches on populaject to flooding) will have large tion phenomena of muskrats, we proportions both of full-sized would have predicted a late fall, adults and of late-born "kits".



The floods of May and June killed count-

ages of low-value "kit" pelts.) Aside from possible extremes of weather that could drastically affect muskrat populations within the next month or two, there are two imperfectly known factors that might have to be considered.

One of these is disease, but this so far seems to be a local rather than a regional problem. The most serious disease found is as yet unidentified by pathologists; its characteristic symptoms are spotted livers and inflamed intestines, great deadliness to musk- rights. A good healthy example, rats. It has not been recognized in anything except muskrats, but we are not sure that other animals are immune to it and urge trappers to take intelligent pre- takes is a little proof to do the cautions in handling muskrats, notably any dead from unknown causes. some of the manifestations of and split with the point of a sharp which are low rates of increase knife. and high rates of mortality for To remove the bone without the population densities con-splitting, put a half-hitch with cerned, not only of muskrats, but a stout cord around the tail stump. also of many other wild species. Fasten the cord end to a firm Its cause has not been at all sat- base. Put a pencil-sized stick on isfactorily determined. It ap- the upper and lower sides of the pears to show much independence | tail, squeeze sticks together tightof differences in weather and en- ly, and pull down. The bone pops vironment and comes at intervals out like a ripe banana. of about ten years. Insofar as the last clear evidence of "cyclic" de- These pelts are cased and marcline in Iowa was seen in 1936 keted fur side in: mink, muskrat, and 1937, the time for a repeti- civet, skunk, weasel, and opostion may not be quite upon us sum. Case wolf and fox fur side now, but it conceivably might in, but turn when drying is alcome a little early.

Let's Have Cooperation

The boys who catch their fish in the Floyd by means of fish traps aren't giving the rest of the fishermen a square shake. . . . Game wardens, or conservation officers, or whatever you choose to call them, can't be everywhere and it shouldn't be expected of them to accomplish much in enforcing the law if they don't have local cooperation, which is the only thing that can put an end to poaching on the other fellow's well publicized in the newspapers, might do the trick. A good many know at whom to point the finger of suspicion, and all it rest.—Alton Democrat.

the rib to the end of the tail. Use The other is "cyclic" decline, the groove in the rib as a guide,

Our grounds for these generalizations may be briefly presented. stock" on condition that the en-

of muskrats varied greatly in central and northern Iowa where not remain favorable, as the catregular studies have been in tails comprising fully nine-tenths progress since 1934. Some areas of the marshy vegetation died showed clear evidence of having out, and the hungry muskrats of been over-trapped. Others, de- midsummer cleaned up nearly all spite severe trapping, had the of what was left and did extenhighest spring densities of a dec- sive foraging on land surrounding ade or longer. Many formerly the marsh. Complications arising excellent muskrat marshes, be- from the food crisis were procause of changes associated with nounced and resulted, in one way made from lath. For muskrat cut servationist" for beaver pelting. water levels, accommodated few or another, in reduction of the two lengths 24 inches long, one Leave feet on fox, wolf, weasel muskrats, whereas marshes for- population to only a few hun- 10 inches, and one four inches. and mink. merly too shallow to furnish good dred animals by the middle of Shape the two long pieces with muskrat environment were well September, or the time of prepa- the same curve as the outside raccoon, and fox to remove the stocked. One marsh was known ration of this article.

1944, population of between 5,000 and 6,000 from the above "seed The 1944 breeding populations vironment remained favorable. The environment, however, did

to have been depopulated of The second adverse develop- the edges. Nail the four-inch weasel and wolf. Tails of beaver, ment for Iowa's muskrats was piece in the top center of the two muskrat, and opossum are dis-Considered from a state-wide even more clearly a matter of square edges with one 1¹/₄-inch carded. Then at least two things went able extent, those losses have cross arm and tack on both sides. been counterbalanced by the Mink boards are made in the Presumably as a consequence adult females giving birth to same way with the use of longer (Look up page 27 of the Iowa | the spreader, then collapsing the Little Wall Lake, south of Jew- Conservationist for April, 1943, stretcher legs.

FUR KINKS

for mink and muskrat may be round. See next month's "Contacks and one of the nails from

most complete for marketing.

Io

Ve

an

900

an

lon

Cee

lec

opi

an

per

res

def

OVE

Wa

con

ree

man

Skin badger and raccoon pelts open and stretch (do not trim) approximately square. Beaver One of the slickest stretchers are skinned open and stretched

Split the tail on skunk, mink, edge of a solid stretcher. Smooth bone, but do not split the tail on

muskrats by disease.

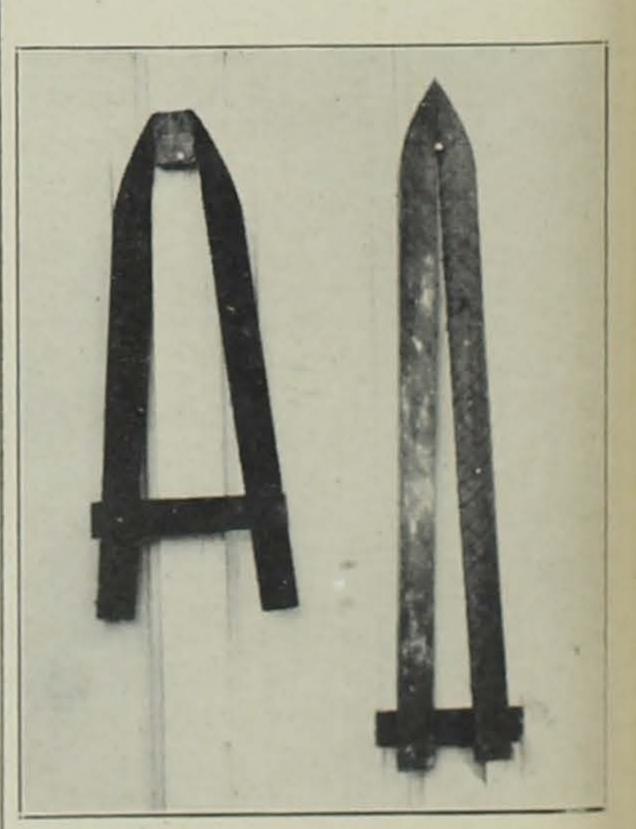
viewpoint, the muskrat popula- water changes: the floods of May finish nail at each side from an tions at the beginning of spring and June killed countless young angle. Tack the 10-inch piece on constituted a reasonably promis- muskrats at helpless stages, in one leg at the bottom. Slide the ing breeding stock and one that fact, practically all young born skin on the frame, spread the became well distributed in the before midsummer along the cen- stretcher legs, and tack the cross course of the usual cross-country tral Iowa water courses kept un- arm to the second leg. Stretch movements of March and April. der observation. To a consider- the lower edges of the skin to the

very much wrong.

of high water, immense stands of more late-summer litters than legs and shorter cross arm, and cattails died in spring or early they otherwise would have done with the omission of the spreader summer, which meant the loss of | - which is a form of population at the top. The pelts are taken the greater part of the natural adjustment often recorded dur- off by removal of the skin edge food of some of our most impor- ing the Iowa investigations. tant muskrat marshes.

ell, furnishes a carefully studied for an account of the adjustment example. On this one marsh, the that took place following the almost solid growths of cattails flood losses of young in June and are left on the pelts, but the bone and the favorable water levels of July, 1942; in this year, the num- must be removed to prevent hair the fall and winter of 1943-44 ber of young raised along central slipping. Some tails are split; in easily accommodated a popula- Iowa streams up to the trapping others the bones are removed tion calculated at close to 1,300 season was "normal" for the without splitting the skin. muskrats. A census of breeding breeding populations involved, To split the tail insert an um- dends to the trapper. Simple stretchers territories in early May, 1944, though trappers' catches con- brella rib between the skin and made of lath are easy to construct, inexpengave a figure of 437 pairs, or tained unusually high percent- the bone on the under side. Push sive, and effective.

The tails of many fur animals



Furs that are properly prepared pay divi-

