

Jack Kirstein phot

Beavers create their own habitat and in so doing develop an environment that is attractive to other furbearers and waterfowl.

IOWA FUR TRAPPING

Tom Berkley Dist. Game Manager

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> peaver. Last seasons demand for these critters placed an average in the middle. iollar value that ranged from a low of \$1.02 per muskrat pelt to a high of \$8.73 per mink pelt. The following material is intended to ussist the beginning trapper and sportsmen in taking and caring for ome of these furbearers.

Mink

Mink are almost as difficult to trap as either fox or coyote. Considerable care must be taken so that traps are clean and well concealed, and that as little human sign as possible be left in the vicinity of the sets. Three sets that have proven to be effective will be described.

When tracts indicate that mink are traveling on land, or across a sand bar, regular dirt hole bait sets are very effective. A fresh chunk of rabbit, muskrat or fish should be used for bait. As mink are not attracted by rotten baits, baits should be replaced every three days. Mink scents are available from commercial outfits and may be used with the bait hole sets.

Mink are often found near springs or farm tile outlets and often use such small streams as travel lanes. Traps should be placed in these small streams in such a manner that the animal will be forced to travel Although there are 12 furbearing mammals in Iowa having market across the trap pan. Look for spots where the stream narrows, or value, only seven of them are currently in vogue with fashion de- create a narrow travel lane through which the animal must travel. signers. These are raccoon, muskrat, mink, red fox, civit, coyote and This is done by placing sticks in the stream, leaving a narrow passage

> Traps are then staked down under one or two inches of water at these spots. Your main concern will be to camouflage the trap. This can be done if the trap has been dyed and is covered by moss or other natural cover.

> One of the most effective sets for mink is a bait set made in a cut bank where there is a shelf under water covered by two or three inches of water. A bait hole is dug slanting up hill into the bank for about six inches. The entrance needs to be level with the water line, with half of it above and half below the water. A chunk of fresh bait, either meat or fish, is placed far up the hole, and a trap is concealed under water in front of the entrance.

> Other sets include the blind trail set made on travel lanes; cubbys made from rocks with the bait placed in the center and a trap set at each end; and sets worked out for brush piles in which mink might be found. Number 2 traps are recommended for all mink sets as they will kill and thereby reduce losses from ringoffs.

> > (Continued on page 84)

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X - CONTRACTOR AND A CONTRACTOR OF A CONTRACTO

Iowa Conservationist

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CIRCULATION THIS ISSUE

COMMISSION MINUTES

October 5, 1965 Des Moines, Iowa

LANDS AND WATERS

A report on the Tuttle Lake water level, recreation facilities and history of the area was given by the Superintendent of Waters.

Construction contracts were awarded to Betts and Beers Construction Company of Adair for the reconstruction of Lake Ahquabi spillway at a cost of \$102,247.58 and the reconstruction of Lake Keomah spillway at a cost of \$97,-523.10.

A request for a patent on .059 acres of land at Five Island Lake in Emmetsburg was granted to Norman G. Thompson with the stipulation that no cost be incurred to the Conservation Commission.

IOWA CONSERVATIONIST

COUNTY CONSERVATION ACTIVITIES

Appanoose County received approval for the acquisition of 1.5 Dear Editor: acres of land as a gift located at the north edge of the town of Plano for the use as a picnic and camping area.

proval for the acquisition of 16 acres of land by a 25 year lease at no cost for the development of an outdoor recreation area for picnicking and camping near Unionville.

Buchanan County received approval for the acquisition of 16 acres of land at the total cost of \$975 to be called the Otter Creek 54,471 Wildlife Area for the purpose of preserving wildlife habitat near Hazelton.

> Cerro Gordo County received approval for the acquisition of 33.23 acres of land at a total cost of \$6 832 as an addition to the county owned Shell Rock River access area.

Cerro Gordo County received approval for the acquisition of 41.8 acres of land at a total cost of Wilkinson County Park.

Clay County received approval for the acquisition of 3 acres of land at a total cost of \$1,000 for the development of a highway safety rest area and fishing access to the Little Sioux River on Highway 10.

Humboldt County received approval for the acquisition of 78 acres of land at a total cost of \$19,750 called Joe Sheldon Park for Section 109.76 of the Iowa Code states . . . it shall be unlawful to u park on the high bluff located on any fish. the south side of the Humboldt-Des Moines River impoundment. O'Brien County received approv- law in the State of Iowa.-Ed. al for the acquisition of 100 acres of land at a total cost of \$17,500 proval for the acquisition of 23.02 eral Aid Coordinators Meeting located approximately three miles southeast of the town of Sutherland for the purpose of developing a multiple use outdoor recreation area surrounding an artificial lake. O'Brien County received approval for the acquisition of 1 acre of Approval was given to change land at no cost for the development an agreement with Iowa State of a picnic area in the central part University on the Cooperative of the county at the north edge of land for picnicking and limited The purchase of uniforms f A 2.1 acre pond at Eagle Grove for the acquisition of 27.9 acres of was recommended for transfer to land at a total cost of \$3,487.50 for the purpose of preserving an A proposal to trade land from excellent piece of hardwood timber the Dudgeon Lake area to the Vin- located 2 miles northwest of the made by Harry Rector and Ray Shelby County received approval Manship and the Commission voted for the acquisition of 80 acres of to table the proposal for further land at a cost of \$10,000 called Mill Creek Park; this area includes an ing and camping use.

Conservation Forum

I would like to make a suggestion for the IOWA CONSERVATIONIST Feature each of the state parks with a one sheet part of the Co SERVATION. This could get a detailed map on one side and descripti material on the other. As an alternative, if a booklet such as th Appanoose County received ap- were prepared, I am sure there would be quite a market for it.

R. D. J.

Cedar Rapids

Such booklets have already been prepared for thirty-one of the may state parks. These are available at check in stations at many of t parks. They may also be obtained by writing to the Public Relatic Section, State Conservation Commission, East 7th & Court Avenue, L Moines, Iowa 50308. All requests should contain the names of speci parks in which you have an interest. A copy of "Iowa's State Own Recreation Areas" is mailed to those who want information on all the parks.-Ed.

Dear Editor:

I am a resident of North Dakota but will be attending Iowa Sta University this fall. I would like to know if I must buy a non-reside hunting license to enable me to hunt upland game birds in Iowa, or do Iowa have a special non-resident student license I would need to buy What license will I need and how much will it cost?

J. T. S.

Turtle Lake, North Dakota

An individual that has resided in the State of Iowa for a period thirty (30) days is classed as a resident for the purpose of purchasi hunting and fishing licenses. If you reside at Iowa State for thirty day \$7,656.48 as an addition to the you can purchase a resident hunting license at a cost of \$2.50.-Ed. Dear Editor:

> Would you please inform me if it is in violation of the laws of yo state to fish with an electric or electronic device (Fish lure). This c vice is no way, shape or form, catches, stuns, stupefies, injures or ki the fish. It merely attracts the fish by one or more of the following:

- 1. A minute buzzing sound that operates from 30 to 300 cycles p second.
- 2. Small light bulb.
- 3. Granulated fish attractor pellets.

E. S. C.

Mt. Prospect, Ill.

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With the winter's arsh anim is is a bu an, usuall curing his im this a In an ac anges occ obably mo kewise th an other in life is (

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A request by Fred Wirtjer to construct a lagoon on Black Hawk Lake was denied.

A request by Gilman Randall to lengthen an existing rock dike on the Mississippi River at Guttenberg was denied.

Approval was given for payment for 1.4 additional acres of land on Yeager Slough in Dickinson County at a cost of \$148.60.

FISH AND GAME

Fishery Unit payments specifying the town of Gaza. that \$10,000 will be in cash.

that city.

ton Izaak Walton League was town of Sac City. study.

boat spaces was presented by Fred recreational area. Weber and Bob Barquist.

neers to the Town of Sabula for Park. construction of sewer plant.

A proposal to build a lagoon on excellent stand of hardwood tim-West Okoboji Lake which would ber, an 11 acre pond and will be proval for the acquisition of 126.03 issuing of deer licenses; the use (ar Charite provide for 62 living units and 80 used as a multiple use outdoor acres of land at a total cost of native animals for the Des Moine are seasons

Approval for the transfer of a for the acquisition of 55.92 acres multiple use outdoor recreation was granted approval to purchas arked at to small parcel of land now under of land at a total cost of \$24,200 area approximately 2 miles south- space and travel to out-of-stal "hoted will license from the Corps of Engi- as an addition to Hickory Grove west of Calmar.

Winneshiek County received ap-

the purpose of developing a county any artificial light or electricity in the taking or attempting to tak

As your fish call is a device using electricity and to some exter light, it is the opinion of the Law Section that its use is prohibited

acres of land by a renewable five Omaha; the Missouri River Bas year lease costing \$15 per year for Committee meeting at Kans the development of a picnic and City; State Boating Law Admi camping area in the vicinity of an istrator's Meeting at Philadelphi existing cave.

proval for a development plan for Hearing of the Iowa-Nebrasl the Plano Recreation Area consist- Boundary Dispute Case at Sa ing of one and one-half acres of Francisco. camping use and the existing Conservation Officers was di Sac County received approval school building to be used as a cussed and the Commission ask community meeting place.

Delaware County received ap- Information items included proval for a development plan for Badger Creek Watershed Meetin Coffin's Grove Park near Man- Lake Manawa Construction Perm chester to be developed for picnick- Stipulation on a lagoon design ing and camping.

proval for a development plan for Watershed Meeting; a report (Glenwood Cave Park for picnick- the experimental teal season; the gr

\$24,639.85 for the purpose of con- Children's Zoo.

Story County received approval structing an artificial lake and The Public Relations Sectic anine dep

GENERAL

Travel was approved to the Fed- and Minneapolis,

Outdoor Recreation and Planni Appanoose County received ap- Meeting at St. Louis; the Pretri

that bids on uniforms be obtaine

Dedication of the indian village Winneshiek County received ap- Sutherland; the Three-Mile Cree panding of Central City Reservoir Projec Tlical mon Winneshiek County received ap- the handling of checks in the Since 1958

> sports shows at Omaha, Kansa steed durin City, St. Louis, Chicago, Milwauke The relation

Much lik ibitat also e changin use of the scientific During th armal laye isothermi on (bottor ed and cro With the uface wat asity of t armer stra ense levels. ermal res oling and 39.4° F. slight bree

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Fall overt

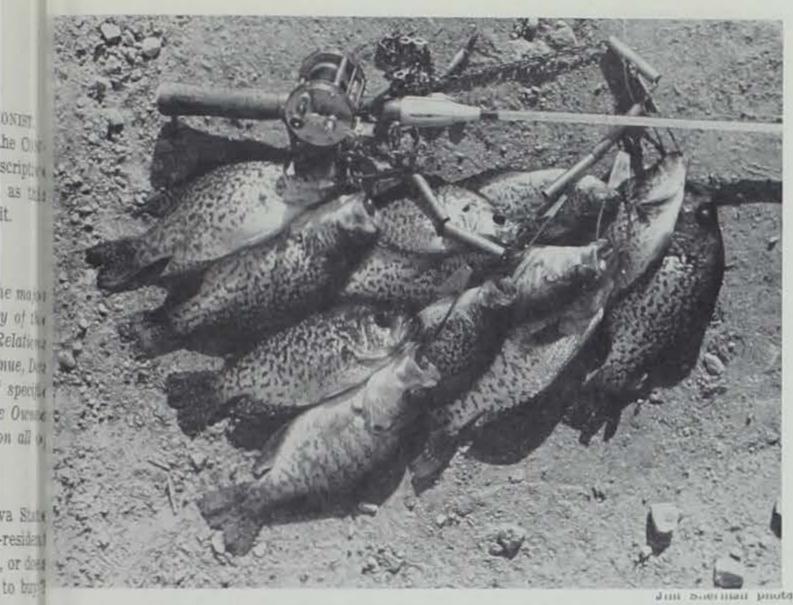
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broughout the fall, successful fishermen take advantage of changing water conditions.

FISH GET READY FOR WINTER, TOO

Jim Mayhew **Fisheries Biologist**

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rty data With the waning of autumn, wild animals seem to sense the approach f winter's isolation. One has only to observe the flocking of birds, narsh animals building dens, or squirrels caching nuts to realize that of you his is a busy but unstable period of frenzied animal activity. Even nan, usually with the prodding of the little woman, busies himself ecuring his shelter against the rigors of winter. The life scientists erm this a reaction to changing environment.

In an aquatic community there are also certain environmental hanges occurring with the shortening of daylight. These changes are robably more severe in the aquatic environment than any other form. ikewise the reaction of fish to environmental change is more severe han other animals. This is because the entire metabolic processes of ish life is controlled by environmental physical and chemical factors.

oxygenated hypolimnion, closely following the location of the thermocline as it descended and finally disappeared. Other species closely paralleled the changing water temperatures in different stratum as if they were seeking a certain isotherm. This was particularly true of crappie. During summer stagnation 70 percent of the crappie were found within 9 feet of the surface. In the first fall netting period, September 20, when the lake was stratified from 18 to 26 feet, 85 percent of the crappie were caught above the thermocline with concentrations of fish at the 0-4 and 6-10 foot depth interval. By the next netting period, October 14, the lake was no longer stratified. On this date there was a definite movement of fish toward deeper, warmer strata, with the highest frequency of occurence at the 0-2 foot, 4-6 foot, and 14-16 foot intervals. On the last netting period during fall overturn, November 14, movement was even more pronounced into the deeper regions, with the greatest concentration of fish at the 16-18 foot interval. During winter stagnation no crappie were found above the 14-foot level.

The vertical movements of such species as channel catfish, golden shiner, and bullhead was in the opposite direction, or toward the cooler, shallow water stratum. In the case of bullhead, the first change in vertical location was identical to the crappie, in other words toward the deeper levels, but then in the last netting period they were caught most frequently in the shallow levels. During the winter all bullheads were concentrated within six feet of the surface.

What This Means to Fishermen

Success, particuarly when it comes to fishing, cannot be based wholly upon the fact that one angler is luckier than another. There is little doubt that the term luck is really based on knowledge of fish habits. We could all learn a great lesson from this premise. That is, success does not just happen, rather it is the culmination of constant observation, profit from mistakes, and a desire to understand acquatic communities.

It is obvious from the Red Haw Lake studies that changing environmental conditions have a profound affect on fish, particularly in their vertical movements and depth distribution in relationship to temperature and dissolved oxygen content. Crappie and bullhead seem to be affected to a greater extent than most species. Largemouth bass and bluegill are apparently not affected in depth distribution other than a progressive movement of these species from shallow to deep regions of the lake.

Every angler should be aware of these changes in the depth location of fish and be constantly adjusting the depth at which he fishes.

il to all of the so-called "cold-blooded" animals are identical in this manner. to take

The Changing Environment

Much like the seasonal changing of terrestial habitat, acquatic ester abitat also undergoes certain physical and chemical changes with bited W he changing of seasons. Mostly it is just more difficult to observe be-

ause of the difficulty in seeing below the surface of the water. Except or scientific study, this is an isolated world.

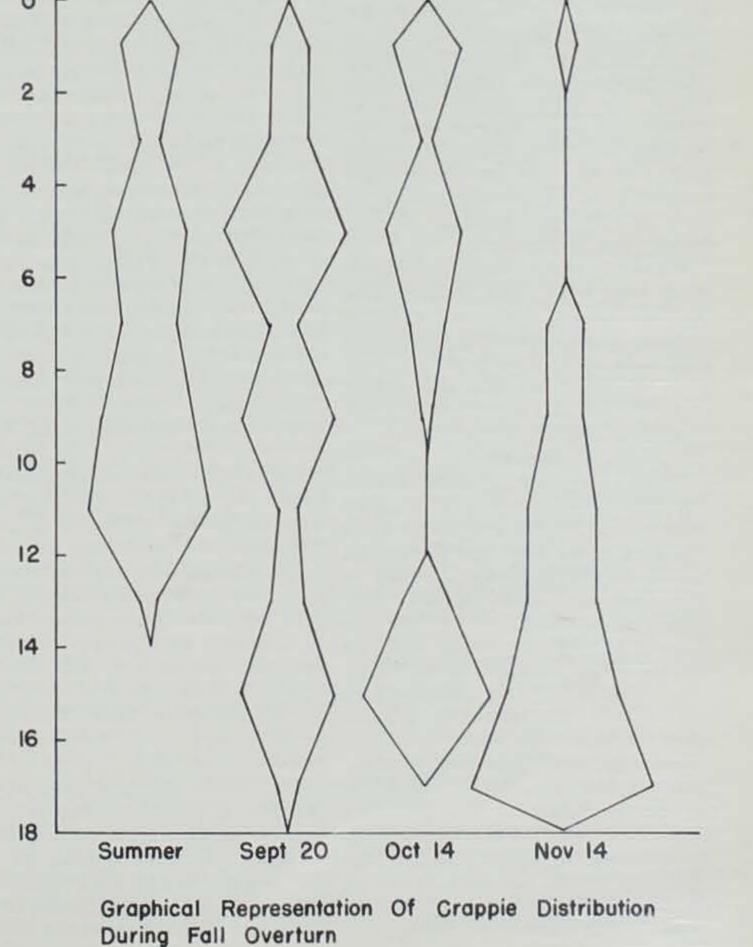
eting at During the entire summer, the lake was stratified into three separate er Basin hermal layers (See IOWA CONSERVATIONIST, April, 1963). This resulted Kanss a isothermic stagnation and complete deoxygenation of the hypolim-Admi ion (bottom layer). Throughout this period fish in the lake are conidelphil ned and crowded into the epilimnion and thermocline (top two layers). With the coming of autumn and declining atmospheric temperatures, Planning Pretrie urface water temperatures are also slowly cooled. This changes the ensity of the shallow water stratum more quickly than the deeper 7armer stratum, and becoming heavier simply sinks through the less at M ense levels. This causes a series of convection currents and reduces hermal resistance to the minimum. Surface temperatures continue ooling and sinking into lower levels until the lake is homothermous t 39.4° F., or at maximum water density. Without thermal resistance n asia slight breeze is sufficient to mix the water in the lake from surface obtaine o bottom. This is called the fall overturn. Meeting

Reaction of Fish to Changing Environment

Fall overturn is a very unstable period for fish life. As a result of issipation of thermal and chemical stratification the environment is xpanding daily. For several months the entire fish population was onfined to a very small portion of the total volume of the lake. Probbly the greatest reaction to this is vigorous and abrupt changes in ertical movement as water temperatures decrease.

Since 1958, detailed studies have been conducted at Red Haw Lake ear Chariton to determine the depth location of fish throughout the our seasons of the year. Experimental gill nets was placed in the akes from late summer until the termination of fall overturn to deermine depth distribution of fish life in this period. These nets were narked at two foot intervals so when a fish was caught it could easily e noted what depth the fish occupied. More than 1,650 fish were etted during the study of fall overturn.

The relationship of depth distribution and rapidly changing environnental conditions varied greatly with individual species of fish. Some pecies, such as bullhead and bluegill, expanded quickly into the freshly



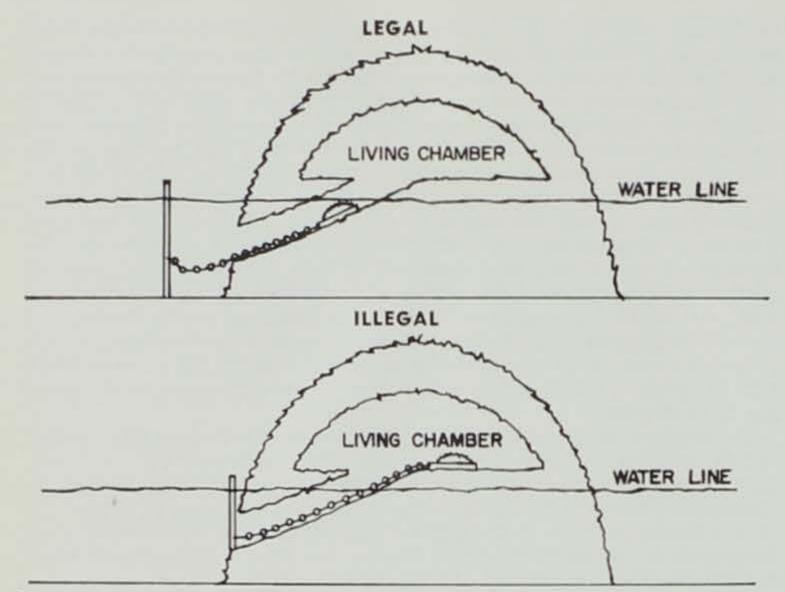
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Depth

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IOWA CONSERVATIONIST



lowa's Attorney General recently ruled that a trap placed within the entrance of a muskrat house was legal as long as it was beneath the waterline and not within the living chamber.

IOWA FUR TRAPPING-

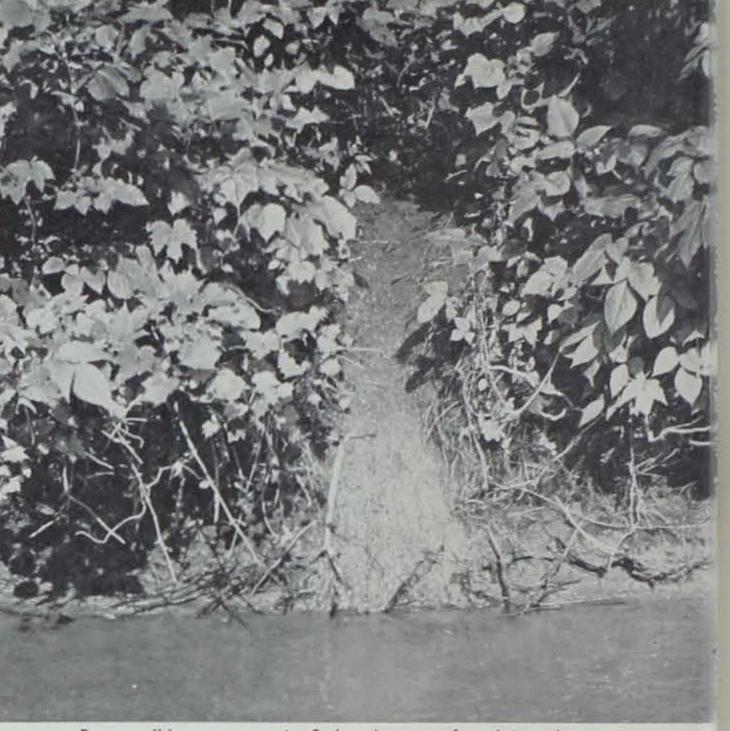
(Continued from page 81) Muskrats

Muskrats make up the bulk of fur pelts taken in the state each year and is important to both the farm boy and the professional trapper. Found in nearly every stream and marsh area, rats primarily feed on roots, aquatic vegetation and tender twigs along stream and pond banks. It is easy to locate lanes used by the animal as it leaves the water, or to find logs which he uses to climb out on the bank. It is here that rats may be readily taken. The traps, No. 11/2, preferably with the stop loss device, should be staked out in deep water so that the animal will drown when trapped. It is illegal to trap inside muskrat houses, but traps may be effectively used near the house by being placed in the runs as travel lanes leading to and from the houses, or directly in the opening of the house (see illustration.) Muskrat sized Conibear traps work very well. This trap catches the rat behind the head causing instant death. Animals caught in this trap will usually be in very good condition, as they are unable to fight the trap as they are when caught in regular steel traps.

cause them to leave the immediate area.

Slides are easy to find, as they are the places regularly used by the beavers when leaving and entering the water in search of food. Some slides may be as much as six inches deep from long use.

of traps such as those described. scent for many traps sets. where the slide enters the water. ounces of clear glycerine and as a rock, piece of metal, or a sack for the castor. filled from ten to twenty pounds the running wire and tossed into deep water. The two traps are then wired to the long end of the locking device. Set the traps and place them below the slide in about four to eight inches of water. The jaws will be parallel with the direction of the slide. It is not necessary to cover the traps with any thing. However, it might help if the traps have been dulled with dye. The logic of this set is quite simple. When the steel hits the beavers foot, he turns and attempts to dive into deep water. When he



Beaver slides are easy to find and are preferred trapping spots.

Scent that might be used is the This makes it impossible for t beaver castor itself. This gland is animal to wring out to chew h If one can find a slide that leaves found on beaver of either sex, and leg off. at least three feet of water, a set is located in two greenish white When making these shallo may be made that will drown any wrinkled musk sacs under the hide water sets, it will be necessary beaver that is taken. Equipment near the vent. The castor should check the traps as early as possib needed for a good drowning set not be confused with the oil sacs. in the morning, and possibly on consists of beaver wire (telephone The latter, when pressed, yield a during the night. This is the on wire or smooth No. 9 wire), a lock- yellowish oil. A pair of castors way to avoid lost animals. ing device, an anchor, and a pair from one beaver will make enough After locating a good slide above To make the scent, place the deep water, fasten one end of the castors from which all flesh and running wire to a strong root, or tissue have been removed in a stake it solidly near the spot clean glass jar. Then add two 2 The wire is then treaded through grains of corrosive sublimate. the hole in the short end of the These materials act both as prelocking device and an anchor such servatives and as an anti-freeze Scent is best used on the end of of sand is fastened to the end of a stick one inch in diameter. First, mash one end of the stick with a hatchet. Then push the mashed end into the beaver castor mixture and twist around. The castor that remains on the stick is sufficient. The stick is stuck in the slide with the treated end sticking about six inches above the water line. This will attract beaver that might otherwise swim past the slide. In the event of shallow streams, or considerable beaver activity on the banks above sandbars or other shallow areas, beaver may be taken in the described traps by solidly staking the traps and placreaches the end of the running ing them in the water at the botstant death. If the trapped ani- wire in deep water, the locking tom of shallow slides. It might be necessary to remove enough river pact of the trap jaws, drowning surface and drowning quickly bottom at the trap site so that it may be placed from six to eight Two baits that may assist the inches of water. This permits the trapper in taking beaver are ten- beaver to swim over the trap with Almost all sets for beaver should der twigs of willow, cottonwood, his front feet, yet be caught by the

Preparation of Pelts After spending much effort as

Beaver

Beaver trappers generally find the Conibear trap to be very efficient. It works very well when trapping operations are carried on under ice and is placed in front of den openings or in a run. The Conibear is designed to catch a beaver behind the head with an impact great enough to cause inmal should live following the im- device prevents his return to the follows quickly. This trap is with- occurs. out a doubt the most humane one devised to date.

often spook the entire colony and slide just above the water line.

be made at the slides that the ani- or other succulent vegetation that pushing hind foot. mal are using, as sets made on the beaver might find attractive. dams and in den entrances will Place the bait at one side of the will often catch the hind foot of

The No. 44 Blake and Lamb trap the beaver above the first joint.

time in catching predators and fu bearers, Iowa trappers lose fro ten to twenty percent of the recash value of their pelts throug careless skinning and preparatio The most common mistakes in ha dling raw furs are in skinnin stretching, or improper fleshing which results in grease burns.

There are only two methods skinning and preparing pelts take in Iowa. These are cased and ope handled. And of all animals take only the beaver should be open handled.

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To case the pelt of coyote, fo and mink, remove it from the an mal in the following manner. cut is started in the middle the foot pad of the hind foot ar continue all the way along th back of the leg to the vent. Th same is done with the other bac leg. Skin each hind foot out b peeling the fur of the leg loo: with the fingers and pulling U skin off the foot until the secor toe joint is reached. It is qui often necessary to use a knife 1 remove the fur from the foot an toes. After reaching the secon toe joint, cut through it with knife. The feet will then t skinned out, with the skin retain ing only the first toe joint and too nails. It is necessary to remov the feet, as any meat left woul cause the fur to rot.

Next, cut around the vent an (Continued on page 85)



from left to right: skinning, fleshing and tail splitting knives. Each is designed to do an efficient job of preparing pelts.





Jack Kirstein photos

This beaver stretching board is about 40 inches square. Notice the various sized circles that have been drawn on the board. They act as guidelines in stretching the beaver pelt into the familiar round shape. Number four box nails are used at one inch intervals to secure the pelt to the stretching board.

IOWA FUR TRAPPING-(Continued from page 84)

up the bottom side of the tail for an inch or so until the base of the tail can be worked free. Grasp the naked part of the tail and pull the hide from the tail bone. The tail of fox and mink may be left as skinned; the tail of skunk and raccoon should be split from the base to the tip. An old umbrella rib may be used to insure a straight cut.

Now pull the skin off the carcass on to while fleshing with a dull skins of fox and coyote should be toward the head, using the knife scraper or spoon. Remember, all turned fur side out and replaced when necessary. When the front possible meat, flesh and grease, upon the stretcher when they are legs are reached, start to free them must be removed from the hide be- partially dried. The skin should from the hide at the body and fore stretching. working the skin off from there down. The skin of the front legs should be split from the elbow to fleshing ordinary paint scraper may be used for the foot pads to permit the removal of the leg and foot bones of fox and coyotes. The hide is then worked down to the head. Here use your fingers to expose the base of the ears. With the knife, carefully cut the hide free of the head, using care to cut under the eyelids so that openings are not enlarged. Lips should be cut from the jawbones close to the teeth and should remain attached to the pelt. The hide is completely removed when the cartilage is cut through at the base of the nose.

by muscle and gristle. Therefore, quality. it is often recommended that con- To permit the skin to properly ning; and it is generally easier to edges with tacks. After drying, do a neat fleshing job when there the pelts of skunk, muskrat and is more meat on the hide to hold raccoon are left skin side out. The

The familiar round shape of a pelt comes from stretching, not skinning. The pelt is stretched on a board large enough to handle it, or, it may be done on an inside wall if the temperature is not excessive. It helps to draw a circle on the board a little larger than the pelt to serve as a guide for stretching. Be sure the fur is dry before stretching it, as dampness might cause the fur to mold. Drive four nails through the edge of the head of the pelt about one inch apart. Stretch the pelt lengthwise as tight as possible and drive several tacks along the bottom edge. Then stretch one side of the pelt and tack; then the other side is stretched in as nearly a perfect circle as possible. The hide should be tacked at one inch intervals all the way around. Some of the grease remaining may be removed by scraping after stretching has been completed.

Cased hides may be stretched on wire stretchers purchased from trapping supply houses. Satisfacstretched round. A single slit is tory ones may be made from made from the vent to the top of boards cut to shape, however. the lower jaw. The feet and tail These stretchers should be of variare cut from the carcass at the ous sizes to fit various sizes and hair-line. The hide is removed with kinds of pelts. Stretch pelts only the help of a knife, beaver hide is to natural size, as overstretched secured very firmly to the body pelts will be thin and of low

siderable meat and fat be left on dry, pull the skin over the stretchthe hide to be fleshed after skin- ing boards fur side in. Secure all

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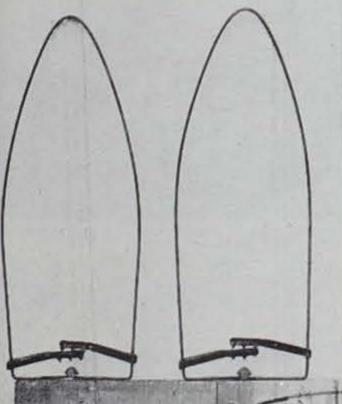
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18.

es in her Use an undersized wooden stretcher to hold skinned the pelt during fleshing operations. An fleshing.



Commercial wire stretchers may be used to case pelts. To avoid pelt damage, be certain to select a stretcher that fits the pelt. stretching process.

it is a great foe of mice.

are suitable, a female will breed feet. throughout the year.

nary tablespoon. Exercise caution fishing. and avoid puncturing the hide. The pelt is then ready for the "Caught a couple of bullheads Washington, Iowa, Journal.

Other furs that are cased, such she said. The barn or screech owl is often as the muskrat and opossum, are tails and feet should be left on the year. Rats are the most prolific of all carcass. To do this, cut the hide "I've shot everything from a

QUITS HUNTING

Mrs. Myrtle Littleton was get- ally outshoot the men. ting along in years. She didn't feel as spry as she used to.

her outdoor sports, hunting. That with fishing," she said. was when she was 82.

ing almost every day the weather years ago to occupy her spare is good. On other days she con- time, then began doing her own centrates on a new hobby-paint- oil paintings. ing. Mrs. Littleton is 83 "going on 84."

straw hat and carrying two fishing large paintings for \$10 each-one rods and a milk carton of night was of a shucked cornfield in the crawlers, Mrs. Littleton hikes from fall. I enjoy painting." Surplus meat and fat should her home to Birdland Lagoon on Her advice on staying young? then be removed from the hide by the Des Moines River, about 15 "Not enough people get outdoors. using a rounded knife or an ordi- blocks away and tries her luck You can't live cooped up all day.

yesterday that went 10 inches,"

called the "feathered cat" because handled in much the same manner, band passed away "years ago", mammals rugged enough to spend the only difference being that the said she went hunting until last its entire life in the high, barren

mammals and if living conditions at the hair line at both tail and bolt-action .22 to a double-barreled 12-gauge shotgun to a .30-30 deer its most important means of de-The beaver is open-handled and rifle", she said, "and was a pretty fense and securing food.

and the second second

still be flexible when it is reversed.

fair shot too. Hunted mostly squirrel and rabbits and could usu-

"But I figured I was getting a little too old to be out tromping So she decided to give up one of around fields, so I decided to stick

Mrs. Littleton said she took up Today, Mrs. Littleton goes fish- "painting by numbers" several

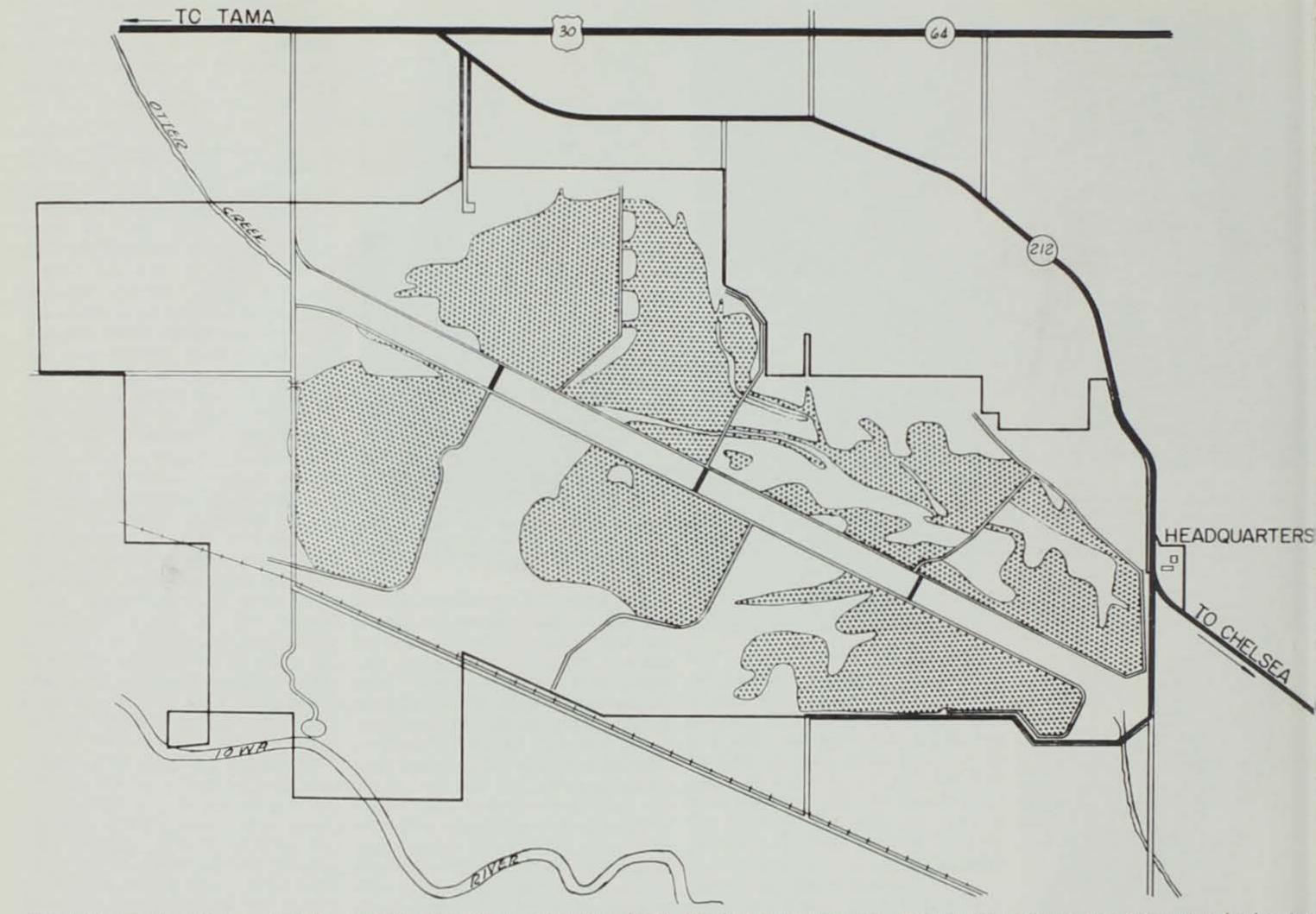
"I do mostly landscapes - you know, mountains, the seashore, Wearing a old wide-brimmed cornfields," she said. "I sold two

People need "fresh air and sun-And she has good luck too. shine," she said .- Reprinted from

The pika, a member of the rab-The elderly woman, whose hus- bit family, is one of the few mountains of western America.

The badger's long claws provide





The above map of lowa's newest marsh locates the relocated channel of Otter Creek, the steel piling dams, the seven individual marshes, Unit Management headquarters and the boat ramp on the lowa River.

OTTER CREEK MARSH

John A. Fish, Asst. Supt. of Federal Aid

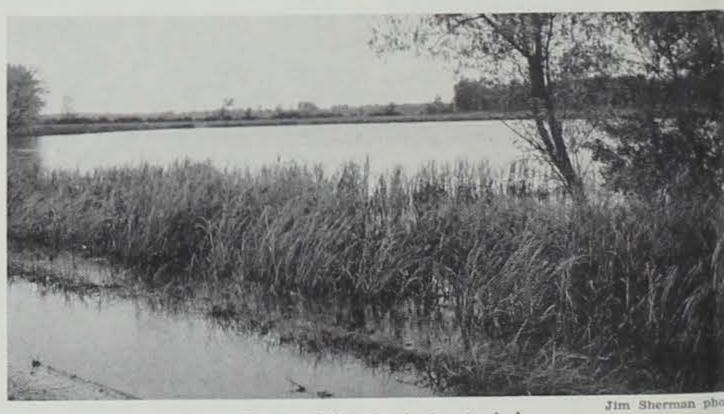
One of the Conservation Commission's most ambitious projects for waterfowl and upland game hunting is underway in Tama County. A 2,285 acre area known as Otter Creek Marsh is located about seven miles east of Tama and Toledo and just northwest of Chelsea. For the sportsman of east central Iowa, the new marsh area will fill a long felt need.

Land for Otter Creek Marsh was purchased and is being developed through the use of Pittman-Robertson funds which comes from a federal excise tax on sporting arms and ammunitions and Iowa hunting licenses. Three-fourths of the money being used is federal; the balance comes from license fees. So in one way or another, the Iowa hunter is footing the entire bill and is proud to pay his way.

Otter Creek, which lends its name to the area, meanders diagonally through the entire project from northwest to southeast, finally emptying into the Iowa River just above Chelsea. Because of flat topography and heavy soils in the valley which remain wet a long time, most of the lands had suffered frequent crop failures. Several landowners had attempted to drain their own lands, but the excavated ditches were either inadequate or without proper outlet.

When Pittman-Robertson funds became available in 1957 a preliminary investigation was started. An exhaustive hydrology study of the 17,500 acre watershed was made to determine the type of development best suited for the area.

bioligists and construction men were held before final plans were diagonally across the tract. Its total length will be approximately four worked out. When completed, the plan was submitted to the Fish and one-half miles. On either side of the new channel, dikes will be Wildlife Service for approval for Federal Aid funds. After federal built. Specifications call for them to be 75 feet wide at the base, 20 approval was given, a team of land appraisers began to evaluate the feet wide on top, and five feet high. current value of the twenty-one tracts which had to be purchased. Negotiations started immediately after the appraisal was completed.



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Otter Creek: quick to flood; slow to drain.

By 1962 all tracts, which included several entire farm units, had been purchased.

Since then, all the farm buildings contained on the property have been sold at public auction, removed by purchasers and the debris cleaned up. Commission employees constructed new fences for the 12 Conservation personnel had anxiously eyed the area for a long time. mile long boundary. All the old interior fences have been removed.

Not only is Otter Creek Marsh one of the biggest game management developments undertaken in recent years by the Conservation Commission, it has taken more imagination and skill in developing usefu habitat than any other. To provide proper stream flow in all kinds of Many long and tedious sessions among game management people, weather, a new 500 foot wide channel for Otter Creek will be dug

> Water flowing down Otter Creek will be impounded in the new (Continued on page 87)



Jim Sherman photo New fish and game management unit headquarters at Otter Creek.

)TTER CREEK MARSH

(Continued from page 86)

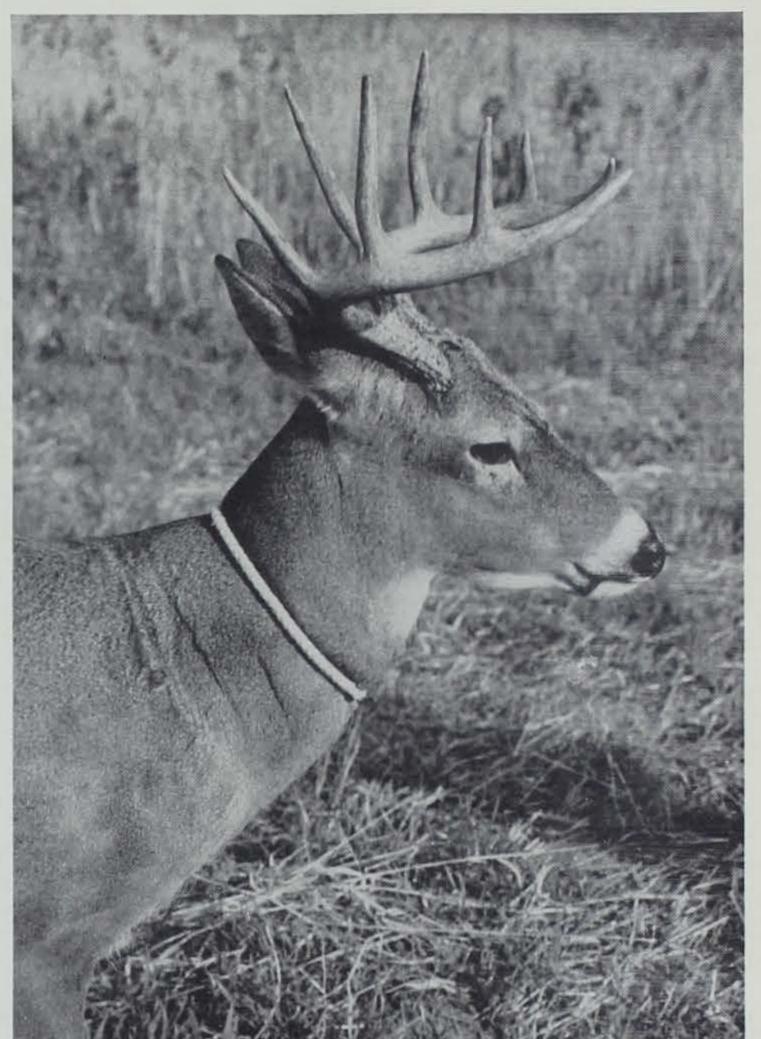
hannel by steel pilings driven across the channel at three different ites. Each will be equipped with stop-log structures which will create desilting action whenever they are pulled.

Each impoundment will serve as a reservoir from which water can e diverted through inlet structures into seven individual marshes. "hese marshes will be created by erection of wide and low dikes which vill create 880 acres of water ranging in depth from one to two feet eep at designed levels. Outlets similar to the inlets will provide nanipulations of water levels for good marsh management and for rainage.

When floods of unusual magnitude occur, and this happens freuently in the Otter Creek watershed, the entire complex of dikes and narshes are expected to be under water. For this reason, dikes and ther structures have been designed to survive floods with minimum amage due to over-topping.

The upper portions of the area will be managed to provide habitat or such upland game species as pheasant, quail and rabbits. Winter over plantings at strategic places will be established. These will be bout 200 feet minimum width and oriented to protect game from preailing northwest winter winds. Adjacent to this protection will be ood patches consisting primarily of corn. All crops still standing in farch will be flattened to make it readily available under most early pring weather conditions.

As the area is on a natural flyway for migrating geese, attention vill be given to attracting and holding them for central Iowa hunters. 'his will be accomplished by planting large fields to winter wheat. seese will find mud flats for nesting and watering throughout the arsh impoundments.



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Furbearing animals, especially muskrat and mink, will be present In large numbers. This will give trappers an excellent opportunity to oursue their favorite sport as well as put money in their pockets. rapping will be by a permit system in order to regulate harvesting.

Timber along the adjacent Iowa River bottoms provide good deer nd squirrel hunting. An access road, parking lot and boat ramp have lready been constructed in this area.

In connection with Otter Creek Marsh, a new fish and game managenent unit headquarters has been established on the area. An office, vork shop and equipment storage building, as well as a new dwelling lave been built for use by a unit manager. The manager has been rained in fish and wildlife management and is responsible for directing he operations of the unit.

Contractors expect the construction work to be finished by 1967. The levelopment and management of the area by unit personnel will rejuire several additional years to complete their plans.

Commission is free to direct its attention elsewhere. Acquisition and planning work is already underway for the next major marsh derelopment. It is located in southeastern Story county and will be mown as the Hendrickson area. And as is the case with Otter Creek Marsh, development will be made possible through fees and taxes paid y the active hunter.

The antelope, a native Ameriontinents.

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Some snakes have been known o live for one to two years withut food by absorbing the fat of heir own bodies.

han a new porcupine.

The Sparrowhawk's name doesn't an, has no close relatives, nor mean anything because he rarely as it ever had any on other attacks small birds. His favorite foods are grasshoppers and other large insects.

The otter's favorite pastime is sliding. During the winter months a mother and her young will A newborn bear cub is smaller spend hours every day sliding down steep creek banks.



Wanted: Return of Deer Collars

Keith D. Larson **Game Biologist**

In the wooded hills and valleys of Iowa there is a big surprise awaiting the woodland hiker or hunters this fall. Something less than 88 deer are parading around the woodlands wearing colorful neckties. Actually, they are collars of plastic rope; the same kind as used for pulling water skiers.

These collars were placed on these deer as part of a research program of the Conservation Commission. One objective of the study is to learn about the movements of white-tailed deer. Just how far deer travel seasonally and annually in the various habitat types is not known. This information is essential as an aid to censusing the deer With completion of the planning phase for Otter Creek Marsh, the herds of Iowa. Also, the effect of excessive localized hunting pressure on deer movements might be measured in this way.

How It's Done

The deer that wear these collars were not roped and hog-tied or anything like that, in order to place collars on them. Collaring deer is never as difficult as that. A special device which is called an "Automatic Tagging Device for Deer" is used. The device is set in well-used deer trails and the deer collar themselves. Deer frequently walk around sets, however, and the detour becomes a new deer trail.

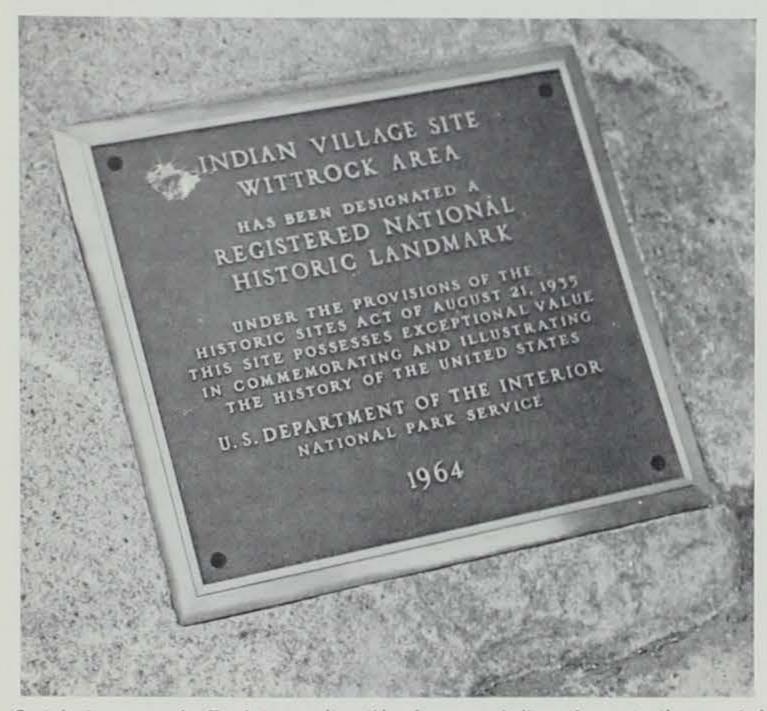
If the set is chosen with care the deer will move along the trail and place its neck in a loop, which breaks after it closes, and in three steps the deer is wearing a fashionable collar. Deer cannot get hung up in these sets. In fact, the loop frequently breaks before the collar return it to the Conservation Commission or the local conservation officer. There is an aluminum numbered band on the collar which identifies the location where the deer was tagged. When a collar is returned, the location and date of the kill should be given. Tagging or collaring is done in the winter, and most collars will be returned during hunting season. The primary results obtained from this study (Continued on page 88)

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Jim Sherman photo

Some of the estimated crowd of 700 spent time examining the recent excavation following dedication ceremonies designating the Indian Village site as a National Historic Monument. Excavations made by Dr. Marshall McKusick, State Archeologist, revealed that American Indians built a fortified village here some 2200 years ago. The site is not usually accessible to the public, as it is surrounded by private land.





Jim Sherman

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Iowa recipients of the 1965 National Merit awards in Conservation are Mr. Kh Kirkpatrick and Mrs. Betty McDowell. Kirkpatrick is assistant farm news editor radio station WHO, Des Moines. Mrs. McDowell was recognized for her worlin teaching conservation in the Eldora school system.

Mr. E. B. Speaker, director of the State Conservation Commission presented awards at the annual Fall Conference on Conservation Education at the State Camp on October 8.



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Cast in bronze, and affixed to granite, this plaque symbolizes the protection granted to Iowa's only National Historic Landmark. Indian Village is located southwest of Sutherland in O'Brien County.

WANTED: RETURN OF DEER COLLARS-

(Continued from page 87)

will give annual movements: that distance traveled from winter to winter. Some deer might wear their collars for many years and prois secure. This is because of the built-in safety of the device.

Best results have been from sets which are made where trails pass through brush or where a trail crosses a road. Wherever deer are used to feeling brush on their necks or are distracted by the need to cross a road without being seen, are the best places to make sets.

In an initial test, a deer was seen to move through a set at top speed and the set worked perfectly. Most deer would be moving more slowly and the device works at any speed. Occasionally, a deer will trigger a set, stop immediately, and then back out of the loop to go around the set.

Hunter Participation

If a hunter bags a collared deer, he should remove the collar and vide additional information on long term movements when they are brought to bag. There will be a few casualties from car accidents and miscellaneous causes of collared deer which will occur in other seasons which will tell of seasonal movements of deer.

The Program

officers and biologists in a full-scale attempt at tagging deer in every to you. county. Collars of different colors will be used in adjacent counties and in some instances in adjacent deer yards where deer are thought to move from one area to another and intermingle.

Deer don't know where the county lines are but the officers must ability. Their legs are placed so ground creature and, except not count deer twice if they range across county lines. The use of far back on their bodies that they mating time, rarely chooses to liv different colored collars in adjacent deer habitats will therefore yield can't walk erect on land but move with another member of th some information on deer movements continuously, from day to day, by sliding on their breast.

and from season to season. Results of this study do not depend e tirely then on the bagging of a collared deer, but if the deer you be s that it This winter, there will be 700 devices set by local conservation has a collar, turn it in and the date and place of tagging will be set

Loons have exceptional diving The mole is a morose unde Wo area species.