

Volne 21

April, 1962

Number 4

THE PROBLEM OF WILDLIFE COVER



Honeysuckle offers fine pheasant cover.

Jim Sherman Photo.

Denny Rehder

1 outdoor recreation.

At first it was thought that we been depleted we may carry on a little more escape time. Raising ngly important in these days thereby promoting game abun- ent demands on the land. In the predators. ensive Iowa farming. With dance. This did not solve the case of northern Iowa, which is Surprising as it may seem, food

met in many different ways, areas where the brood stock has ing down the tractor to allow a

problem of adequate cover could enact laws governing the small-scale stocking program. the cutter bar when a nest is seen Idlife is one that becomes in- harvest of wildlife resources, Different species present differ- only pinpoints the location for

e available land being used problem, giving rise to the era of our primary pheasant range, we is a minor problem in our primary e production of farm crops, the game farm and fish hatchery. find that nesting is our biggest pheasant range. Pheasant starva-'e has to either adapt to the It was thought that artificial problem. The hayfields that the tion is not substantial, according ing conditions or move to stocking would supplement our pheasants like so well are death to studies in Iowa or other states suitable areas. The changing dwindling wildlife populations, traps. It is ridiculous to expect a where the pheasant is a primary use through the years has Stocking has proved a useful tool, farmer to delay mowing his hay- game bird. Pheasants will burrow pronounced effect upon the but it has evolved from indiscrimi- field until after nesting season for under deep snow for feed, and sition of our wildlife re- nate, scattergun attempts to a hay must be made when the time since these birds are found in our "S. The introduction of new more realistic approach that forms is right. Because of this, it is not most fertile sections of the state, s has made increasing de- a part of our present program of economically feasible for the food is always present. The bulk upon those who are con- habitat improvement or game farmer to ruin his hay crop out of of the pheasant deaths in the ¹ with our wildlife and their management. First we provide the deference to the nesting wildlife. winter are due to natural causes. cover and food supply so that wild. Using flushing bars serves no Quail offer an entirely different problem of management has life can develop naturally. Then in practical purpose except by slow- picture. Southern Iowa, our best (Continued on page 30)

Page 26

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CIRCULATION	THIS	ISSUE.	

COMMISSION MINUTES GENERAL

William Boswell, Conservation Officer of Reinbeck, Iowa, was apant to the Director.

Approval was given for travel for one person to Denver to the North American Wildlife Confer- for purchase of 1131/2 acres for ence.

for travel to the Midwest Pheasant Williams Lake. Council at Fort Collins, Colorado, April, 1962.

car to travel to New Marsh Field, to Rock Falls Park. Ohio, to pick up Reeves Pheasants in early March.

Authorization was given for fisheries trucks to travel to Yankton, South Dakota; LaCrosse and Genoa, Wisconsin, and New Lon-

THINGS YOU MAY NOT KNOW

A female fly can lay its first batch of eggs in less than a week after its birth.

The fact that the blood in their gills flows in one direction and the water in another enables fish to utilize the oxygen in water most efficiently.

Forty-one states have laws that give full or partial protection to hawks, owls and eagles.

During winter months the range of a wolverine may cover an area more than fifty miles in diameter.

Recent estimates say only about 1,000 pairs of bald eagles are left in the United States.

The Commission approved a proved as Administrative Assist- rating list of 25 officer candidates for the fish and game positions.

> COUNTY CONSERVATION Boone County received approval on the Iowa side of the river.

Approval was given for a state total cost of \$4,950 as an addition

proval for purchase of 18 acres major county park including an adjacent to Lake O'Delhi at a cost 83 acre artificial lake. of \$1,000, plus one other adjacent acre which cost \$100.

DOES THE MISSOURI RIVER HAVE **RECREATIONAL VALUE?** Jim Sherman

Ten years ago the Missouri River was fluctuating violently in wat level; at that time it was used only by duck hunters and commerci treat can be fishermen. The average citizen thought the river was mean, main muddy, and dangerous. In 1953, the dams upriver became operation of people this and the river level stabilized. Clear water started replacing the mud the only wa flow of the river. Vegetation began to grow along the river and became possible to install boat ramps and build access roads with a expectation that they would be reasonably permanent.

A survey made in the summer of 1960 indicated 1,600 boats we used between Hamburg and Sioux City. The average boater mal sixteen trips on the Missouri River that season, traveling an average of thirty-four miles per trip. The average boater used 112 gallons gasoline during July 1960 and the average trip lasted six and one-line hours. The boater survey reported that 39 per cent fished, 38 per co swam, 74 per cent picnicked, 20 per cent camped and 44 per ce water skied on the Missouri River. During the fall of 1960 the surv recorded 118 duck blinds between Sioux City and Council Bluffs.

The Iowa Conservation Commission is striving to preserve some the oxbow lakes along the river to provide additional lake-type fishing swimming, boating, and camping areas.

Today we have active boat clubs located at Hamburg, Bartlell Council Bluffs, Missouri Valley, Shenandoah, Onawa, Whiting, an 13 Sioux City, who maintain their own private docks and picnic area " Two commercial marinas at Council Bluffs and Whiting, plus to ich will be ri state-owned docks and auto parking areas west of Onawa, and on a municipal dock on the Big Sioux River at Sioux City are now in u

Commercially this means good business for people who sell boat this are eff \$33,000 as the first acquisition for motors, gasoline, camping equipment and other recreation supplies. I then been One biologist was given approval a large park to be called Don the long run, recreational development of the Missouri River should b Dispart is a great attraction for industry to locate in western Iowa. For the same for mo Cerro Gordo County received average citizen of Iowa it means a whole new recreational area clos to three year approval to acquire 20 acres at a to home for the enjoyment of him and his family.

> total cost of \$144,950. This area Linn County, called Clinton Town days since th Delaware County received ap- is to be used for development of a ship Lake, was not approved.

Pottawattamie County received approval for purchase of two Delaware County also received areas totaling 97 acres for a muldon, Minnesota, as necessary to approval for the purchase of three tiple use county park. The areas parcels of land totaling 61/2 acres include a 12 acre pond, and total

WATERS

A request for a construction per Liters small mit for riprapping of 3,000 fee of shoreline on North Twin Lake the in Calhoun County was approved a small s

in the spr there is contrary.

SP

ere is a ing tackle trout. One ep in mit lires, lon eight tac of year to big lures atural foo spring ull insects

or the dry-f iges size 16 and black be floa

insects on

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IFF Firing Irvamer files e for early

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pick up fish.

was authorized to travel to St. way at a cost of \$500, to be used Louis, Missouri, May 31 to attend a meeting of the Association of Conservation Engineers.

attend the Missouri Basin Inter-Agency Committee Meeting, Jefferson City, Missouri, April 25-26.

Authority was given for travel Prairie Chickens for use in the research station.

One person was authorized to concerning boat regulations.

drews, Superintendent of Equip- J. Burkley. ment and Purchasing, was accepted, effective March 31.

work at the Sports Show at La-Crosse, Wisconsin.

A motion was approved for a owned area as a memorial to Bruce Stiles, former Director of the Commission.

A report was given on planning for a statewide meeting of all conservation personnel to be held on March 15.

FISH AND GAME

A transfer of fisheries budget on Spirit Lake.

Superintendent of Engineering on the M and O Railroad right-of- cost was \$21,540. for wildlife cover areas.

\$1,000.

Purchase of four acres for a roadside park in Floyd County were approved: to Basset, Nebraska, to pick up was approved at a cost of \$3,500, for the Floyd County Conservation Creek Area. Board.

Acquisition by gift of 61/2 acres Park. travel to a meeting in Chicago was approved in Franklin County to be called the Burkley Historical Roadside Park. The resignation of Dale An- Area from Mr. and Mrs. Arthur

Approval was given for the purchase of 13 acres at the cost of Arboretum. Four people were authorized to \$1,075, to be used for a road right-of-way to the West Fork Lake. Access Area in Franklin County.

Ida County was given authority head Park. plaque to be placed in a state to develop a roadside park on $4\frac{1}{2}$ acres of State Highway Commission land on Highway 20 near Galva, Iowa.

> Marshall County received approval for a lease on one-half acre Park. of land and a building for use as cost of \$35 per month.

funds was approved for use on the for options to purchase 15 parcels by the Conservation Commission. Area. Spirit Lake Hatchery at Orleans of land from six different farms The request to acquire 521/2 involving 312 acres of land and a acres for an artificial lake site in at Independence, Iowa.

Clayton County was authorized to purchase 541/2 acres of land at Floyd County received approval a cost of \$3,500, or six acres for the purchase of 10 acres in the needed for an access road at a The Director was authorized to northeast corner of the Idlewild cost of \$700, if the first purchase Access Addition for the cost of is not successful, for use in connection with Volga Pine Park.

The following development plans

Buchanan County - Buffalo Swan Lake State Park.

Cherokee County-Steineke-Little Sioux Area.

Iowa County -- Iowa County

Jackson County - Sabula Boat Landing.

Cerro Gordo County-Wilkinson airplane. Memorial Park.

Cerro Gordo County-Rockwell

a shop and service center at a proval for management agreement Iowa. for a 25 year period on the Lost Story County received approval Island Access Area now managed camp in the Yellow River Fores

A request for perpetual easy weight weight ment for maintenance in Louis a sout for ea County Drainage District No. 1 was approved.

The Superintendent of Water gave a report on an investigatio of passenger capacities of house boats and pontoon boats.

PARKS

A development plan was a E proved for Carroll County 10

A gift by the Madison Count Calhoun County-Hickory Grove Historical Society of a plaque fo the Millstone Monument to be col Cherokee County-Meriden structed at Pammel State Park b the Commission, was accepted.

Planning for maintenance an construction of state park road Grundy County-County-School in 1962-1966 was approved by th Commission.

The development plan for Col Springs State Park by the Cas Pottawattamie County-Arrow- County Conservation Board W8 accepted.

A report was given on the cond tion of the Commission's presel

FORESTRY

A report was given on the for estry activities concerning acqu Palo Alto County received ap- sition of Federal Forest Lands

Planning for the prison labe

A new forester is now locate

SPRING TROUT FISHING AND ARTIFICIAL BAIT **Denny Rehder**

∈ ontrary.

ere is a variety of fly and ing tackle that will catch trout. One of the chief things eep in mind is necessity for lures, long fine leaders, and g weight tackle. This isn't the of year to "horse" a stream big lures and heavy tackle. atural food available to trout e spring is usually confined nall insects.

the dry-fly fisherman, small miles, size 16-20 in patterns of and black, are effective. They a d be floated to the trout 1 will be rising to feed on the insects on the surface of the

lies are effective at this time will spook the trout. of insect. Imitations of the fly before it can be used again. 1.21 rly spring.

10 1100 good for early fishing.

out can be caught on artificial draw trout to the surface to feed and in the spring! Even though most food comes to the trout an people think that bait fishing inch or two from the bottom in e only way to catch early early spring. Consequently, the there is much evidence to deeper you fish your lure this time of the year the more successful you will be.

> Your "attractor" lures, such as small metal spoons, should also be fished deep to take advantage of the fact that trout are feeding near the bottom.

Methods for Spring Fishing

As we have already mentioned, your small dry flies representing midges are cast into the edge of the current and floated into the pool. You can't expect to fool a trout in the clear water during the spring, unless you take advantage of the turbulence where the current meets the quieter water of the pool. This turbulence will help conceal your line and leader. mphs and sparsely dressed You must also keep hidden or you

ear, because their natural When fishing the midges, you erpart is present in the will find several flies necessary mus for most of the year even since they are so small that every three years, depending on the strike will necessitate drying the

forms will not be too ef- Nymphs should be fished on the " loove since they are not present bottom. If you can cast upstream and let the nymph tumble with the eamer flies and bucktails that current into the pool, you will be te small fish can prove ef- imitating the natural action of the



On light tackle with artificial bait, a rainbow trout like this will give you a tussle.

ten ve for early fishing. Spinning bait. You should keep the slack ing the drift, the rod tip should tractor" type are usually most eflike the small metal wob- out of your line because the head be raised even though it may be fective in fast water. To get the small spinner types, and of the pool is one of the chief feed- a rock, stick, or fish slowing it up. action from your lure, you must small weighted lures or jigs ing areas for trout and you may If you wait until the jerk reaches cast downstream and work the you, you'll probably lose the fish. lure against the current. ner good artificial bait can be After the fly enters the pool and It sometimes helps to increase the Wobblers in the tiny fly rod size in the form of spinner-fly sinks to the bottom it should be visibility of your line by tying a are good in pools and slow water. oc inations and the smallest of retrieved a few inches at a time small piece of white yarn where An erratic retrieve will often proto simulate a natural drift through the line and leader join. This piece duce trout. You should use an erost people use equipment that the pool. This natural drift will of yarn will serve the same pur- ratic retrieve and stop to let the pose as a bobber when bait fishing. lure flutter to the bottom. Small When conditions demand that plugs should be used also. Darkyou fish downstream with a wet colored plugs are best for spring fly or nymph you still try to get fishing. on the bottom. In fast or deep The biggest problem for the water you may need weighted angler fishing artificial bait is the nymphs. On your retrieve you selection of tiny lures and lightshould continue it into the riffle at weight tackle. Not only will you the head of the pool since this is increase your chances of catching where the trout will be feeding. fish, but you will be approaching Streamer flies or bucktails rep- this sport of trout fishing from a resent large insects or small fish gentleman's standpoint. Trout that can readily move about in the fishing is a sport that should not current. You must fish these, im- be given to "horsing" or "meat parting to them some action. Fish fishing." Trout fishing from the them through the pool from vari- sportman's view is a highly skilled, ous positions. technical craft that offers the ulti-Streamers are most effective mate in outdoor recreation. when they are fished across the stream, allowed to drift with some action, and retrieved upstream IOWA TROUT STAMP with action. Quite often the effectiveness of streamers and bucktails is increased by riffling the fly. Riffling is done by throwing a half-hitch of your line over the head of the fly to change its pitch as it moves through the water. When the current is too slow for good drifts, you should fish the pool from various positions.

Page 27

6 heavy. Trout are normally produce many strikes. and ng on small food items and One of the big problems for the weight tackle is needed.

get a strike.

novice is learning to tell when he cept for the midges which has a strike. If the line stops dur-

Jim Sherman Photo

east lowa offers some wonderful scenery as well as fine early spring trout fishing.

Small spinning lures or the "at-





SPRINGTIME-A RE-AWAKENING

Carol Buckmann

To walk through woods, fields or over hillsides in early spring and come across a group of wild flowers nodding in the breeze is like meeting old friends who have been away for a year. A little knowledge of common spring flowers brings pleasure and intrigue by their beauty and spring freshness.

Three petals, three sepals and three leaves adds up to a delicate dwarf trillium, the first wildflower to peak its head above the ground in an early spring greeting. Also known as snow trillium, this white flower is frequently found in southern exposures of steep wooded hillsides where the snow melts first. Trillium is often caught in late snow storms or blossoms while snow partially covers the ground.

Good places to look for trillium are the following state parks: Dolliver, Ledges, Backbone, Pikes Peak and Wild Cat Den. In addition, good places to look for the following woodland flowers are Lacey-Keosauqua, Springbrook, Maquoketa Caves, Palisades-Kepler, MacBride, Stone and Waubonsie State Parks.

Another early spring woodland beauty, the hepatica or liverwort, makes it debut with the first warm rays of sunlight in any wooded fragrance engulfing the hillsides. area. Hastening to bloom before Look long and hard at the petals; the leaves appear on woodland they resemble bright-winged birds trees, the hepatica hides in the for which they were named. brown leaves and debris. This blue or pink-white flower has round kidney-shaped leaves with three new hickory leaves light the woodlobes bearing hairy stems. in late March are the white blood- cowslips ring in spring with their roots along the edges of thickets blue petals matching the May sky. and open woods. The reddish- A long-time favorite of the orange juice in the stems and woodlands, the Jack in the Pulpit, roots was used as medicine and begins its deep wood flower sermon dye by the Indians. Basal leaves in May, finishing in June. So coil around the flowers and spear named from the fact that its their way through dead leaves on spathe resembles early period pulthe woodland floor before they un- pits which had hoods over them. wrap their white, single flower. Walking through the shade or pale green hood. edges of woods one comes across Although the May apple doesn't several tiny pairs of what resem- have a hood to protect its "Jack" bles baggy pants hanging on a against rain and sun, it does have slender clothes line. The "Dutch- something just as effective - an man's breeches" are fragrant, umbrella over the flower is a sindrooping flowers on a tuft of fern- gle shield growing above the white filled with nectar and wave in the of meadows and open stretches of breeze from April to June. spring beauty must have sunlight. berry, edible when ripe. ter. or wind flower's white blossoms see shad bush. One of the earliest picking is the lady's slipper or In- differ slightly from south to northgods before it could bloom.

in the early spring breeze also from March to May is the dog tooth violet, a common member of the lily family. Also known as trout lily, yellow adders tongue and fawn lily, dog tooth violets are low with little or no stem. Moist woods and meadows, creek bottoms and along rivers are likely habitats. The narrow pointed leaves are mottled with brown and seem to spring directly from the earth.

Watch where you step, for the stemless wild ginger might be underfoot along rivers and valleys late in March to May. As its name suggests, this plant has ginger flavor in its rootstalk which was once used as a remedy for whooping cough and a spice flavor. The soft kidney-shaped leaf carries a long stem from the base of the plant. Only a sharp eye can detect the maroon flowers hidden within,

Other woodland early spring flowers common from April to June include the buttercups, a symbol of golden days of summer to follow. They are found in moist, damp places along any river bottom. Violets in the cool shadows provide a carpet to the woodland. In sunny areas columbine blossoms sway gently, their highly scented

In the southeast one-third of the state, hickory candles enclosing lands with their deep rose-pink Joining the trillium and hepatica flowers while bluebells or Virginia Jack is in the center under the like foliage. The "breeches" are blossom. In colonies in wet patches woods, it blooms from April to While many spring flowers hide June. The "apple" is a large, from the sun in shaded areas, the yellow, juicy strawberry-tasting common in prairie areas and the This demure yet colorful wildflow- Walking from the woodlands one At one time marsh marigolds the state flower, the wild rose, W er is low-growing and thrives at sees the hillsides fronted by the were among our common marsh fields, woodlands, roadsides and out the edge of the woods in April. A shad bush with its incandescent and wet land inhabitants. Due to of the way places in early June? small, deeply buried tuber gives white flowers. Along high clay careless flower seeking, now only The dates of these flowers are rise to a pair of narrow, glass-like banks, streams or at the Ledges a few remain along the northeast subject to change according to the leaves and a branching flower clus- State Park on cliffs overlooking springs. Another of our beautiful weather conditions of the seasons the valley, at Springbrook Park or specimens almost completely de- and parts of the state. These date March to May the rue anemone Dolliver Park are good places to stroyed by ruthless digging and are in general for central Iowa and dot the shaded areas. Ancient blooming shrubs, it comes before dian moccasin of deep forest Greeks believed the anemone the leaves and after the hepatica. shade in May. needed the blessing of the wind These bushes bloom when the giz- But most of Iowa's wildflowers twice as large as whistler swans



Hepatica.

About a week or two after shad in woodland areas. This frail look bush, one sees redbud trees bloom- ing but sturdy pale-purple flower ing at the edge of the woods in covers the woods and hillside Waubonsie, Lacey-Keosauqua and around the last week of May Wapello State Parks. Impatient Common to the slopes and prair to bring color to the hillsides, it ies is the prairie phlox, a tuffed blooms on a leafless stem render- plant with slightly hairy, nearly ing a bright purple contrast to the erect stems. The rose-pink to vie blue spring sky. let flowers are seen in abundance Ancients heralded the blossoming from May to July.

Page 28

A familiar wild beauty nodding run early in April.

hawthorn bush as the first day of If you walk through the wood May. Although hawthorn flowers filling your lungs with the fresh appear around the last of May in spring air but suddenly encounter Iowa, they do indicate spring is penetrating odor similar to friend here in a large percentage of state skunk, look down and you may find parks.

ing its appearance from April to the stems or leaves are crushed June is the pasque flower, a silky. Skunk cabbage often forces [h] haired plant. Its hairy, solitary pointed tips of the cone-shape flowers reach a breadth of over an spathes through partly frozen sol inch. From a distance, the blue- before any other signs of spring gray blossoms on hairy stems enliven the woods. Skunk cabbage looked like prairie smoke to the populates depressions and hollows pioneers and led to the nickname in fields and open woods where of "prairie smoke." This flower is there is an abundance of soil water Great Lakes region.

zard shad are making their spring come from hardy pioneer stock Trumpeters often weigh 35 pounds such as the wild geranium common whistlers seldom weigh 18 pounds

you've stepped on a skunk cabbage The first prairie wildflower mak- leaf. This odor is only emitted "

What better way could summer be signified then by the coming of

Adult trumpeter swans are offer

Page 29





Dog's-Tooth Violet.

Jim Sherman Photo.

Shadbush.

Jim Sherman Photo,



Dutchman's Breeches.



Pasque Flower.

Jim Sherman Photo.



Phlox.



Trillium.

Jim Sherman Photo.

Bloodroot,

George Tovey Photo.

Page 30

OUR ROLE IN WILDLIFE COVER

Denny Rehder

We can talk for hours about the need for cover, but it is the farmer or landowner who must govern the use of his land. Farming is a business and the farmer must think in terms of what programs are economically feasible and sound in terms of proper land management.

Probably the biggest reason for most farmers to plant wildlife cover is the enjoyment they get out of the wildlife they can attract. Although not as highly pub. licized, another reason for planting cover is the actual benefits accruing to the farmer for his efforts. Studies have shown that when a sod fencerow and a shrub fencerow are compared mile for mile you will find in the sod fence-500 beneficial ladybird row: beetles; 79,000 insects injurious to farm crops; 1.5 nesting birds; 84 harmful small animals; and 8 beneficial small animals. By contrast, the shrub fence row will harbor 20,000 beneficial ladybird beetles; 54,000 insects injurious to farm crops; 21 nesting birds; 21 harmful small animals; and 28 beneficial small animals. In the farmer's fight for pest control, plantings such as living fences offer very real economic returns.

What Is Being Done?



Quall need grass for nesting, isolated food patches, and brushy areas for escape cover.

Commission; to maintain the area important with the advent of in-

In northern Iowa, shelterbelts and care for its fences and signs; tensive row crop farming. Of and windbreaks are useful to both to take reasonable care to prevent prime importance to pheasants in the farmer and wildlife. They cut damage by fire, or grazing by his the winter are farm groves with wind erosion in the spring and domestic stock; to mow only after honeysuckle plantings. If they are

COVER-

(Continued from page 25) quail country, was once preden nately grassland used for cattle feeding. During World War I tempts were made to farm the land. Extensive erosion left de gullies which soon grew up in brushy cover ideally suited f antion, butt quail. Until this time the gun on " must h were not too plentiful, but the at the game in vent of this brushy cover provide he Gay Nin the impetus for a rising population 2 at many The grass had always provide 20 in that cit good nesting cover, but food and started ab escape cover was needed. After man button-o erosion set in, there were man pole went to small, odd areas in crops the, to investig were close to grass and cover set beds in Consequently the numbers of qui g They to increased. Now, however, there is the shundant i a move back to the grassian built the fir farming, with many of the guille of there being filled. The quail are facily had was the l a problem in the future if U or equalled trend should return this area will man. "Cla grassland farming. Bahermen

While food is a minor phease much as \$3 problem, it is a critical one to very in those quail. Pheasants can last longe without food and even eat food that a quail cannot subsist on.

Although we tend to take of rabbits for granted, they too, fat "Boat" a problems with cover. A rabb or square of needs cover to escape from predtors. In bygone days a big fact was the existence of many brul piles in farm woodlots. With ele tricity, fuel oil, or gas replaced the wood stove; and steel fence to the ba posts replacing the wooden post " About 39] farm woodlot activity has 4 clined. Rabbits, then, need gras worm through

新作品 U In the G Stan

10 Muscati ming was mart. All yo Take cal which c W bot my s attached

The 4-inch stile dredge

HISTO SPEA

terbelts have been used farther permission. to Texas.

of shelterbelts has gone into management of our wildlife re- escape cover, and winter cover. northern Iowa and planted such sources. belts on private land to demonstrate their effectiveness. These part of the state.

ing to an extent, but the primary the local Conservation Officer and useful purpose to the farmer. emphasis is on game production, the local soil conservation district. The interest and cooperation exnot crop production.

duction and develop it for wildlife. club pays for the planting, fencing, tor in wildlife production. These agreements usually run for and general development of the 10 years. The Commission agrees area. Upon completion a Conservagates, and signs needed, and install to the upkeep of the area. them.

catch snow for future moisture in July 1 each year except for local adjacent to feedlots—so much the

Farmer-Sportsman Cooperative

We've mentioned odd lots and cuts grass production in half. In turn the farmer agrees to shelterbelts, both of which offer Spraying is used on most farms. spraying is less dangerous, m

the winter. Windbreaks and shel- weed control; to allow hunting by better. Honeysuckle is a good odd lot planting also, providing food west where wind erosion is such The Commission will also help and cover. Other plantings include a problem. There is a line of these in predator control. Since most conifers, sweet clover, osage belts running from the Dakotas farms have these odd areas, the orange, and, in southern Iowa, program offers an excellent oppor- multiflora rose. These plantings The Commission in its promotion tunity for participation in the can provide food, nesting cover,

Other Beneficial Programs

The diverted acres program is The Farmer-Sportsman Cooper- important to wildlife especially belts are important to the pheas- ative program established in 1948 during the nesting season. Since ant and rabbit populations in this has now completed nearly 3,000 the program went into effect, the projects in 89 counties. The pro- Hungarian Partridge in northwest Our game management areas gram is set up to enable sportsmen Iowa has increased in range and are primarily for wildlife, but they clubs to contact farmers about set- population. Mowing these acres do demonstrate the best utilization ting aside odd lots and the like for with the exception of localized of the land in an ideal situation. the benefit of wildlife. The whole weed control is not only harmful On these areas you will find farm- operation is tied very closely to to nesting wildlife, but serves no

Farms approved for FSC develop- hibited by the State Highway There is a Farm-Game Habitat ment must have a soil conserva- Commission and several counties program in which the Commission tion plan which will serve as a in delaying their roadside mowing will go to a farm with an odd framework for the operation of the programs until after the nesting area not valuable to farm pro- FSC program. The sponsoring season has been an important fac-

Harmful Practices

Burning over the land is a falto provide for surveys and meas- tion Officer will check the area and lacy in good farm management urements of the area; to furnish make application to the Commis- that is fortunately on the decline. seeds, vines, shrubs, and trees sion for reimbursement to the club Burning merely warms the ground needed on the area and the labor of one-half the cost of the project. in the spring, promoting faster to plant it; to furnish fence, posts, A farmer's obligation is confined plant growth. At the same time it robs the soil of nitrogen and

plant any replacement stock fine cover possibilities. Roadsides Uncontrolled spraying is detri- economical, and does the job] needed, to be furnished by the and fencerows are becoming very mental to wildlife, while spot as effectively.

for nesting; escape cover in II thing rope. The form of brushpiles, or shrubber around \$2.00 and ragweed, ironweed, and brush A 10. As may piles for winter cover.

The problem of wildlife cover is En al one tim complex one. We must realize the Text sten wildlife is a direct product of has the least itat, and as the habitat change, Manity of H the species present will chan had the clar with it. The world of nature is Set for an off. complex community of interding The mo pendence. In attempting to chan this community we must realis a them and as illustrated by the quail in soul ern Iowa, that we will change whole structure.



The decline in the activity of the woodlot has taken much rabbit cover.

HISTORICALLY SPEAKING

Micatine, Button Capital of the World (In the Gay Nineties)

Stan Widney

tton, button, who's got the "" must have been the most p. r game in Muscatine, Iowa, "Gay Nineties" when there wirr as many as 30 button facin that city alone,

litarted about 1889 when a Ger in button-cutter named J. F. Boe le went to Rock Island, Illinote o investigate the reports of musl beds in the Mississippi They turned out to be mozabundant near Muscatine so ilt the first button cutting jolum there.

It was the beginning of what equalled the California "Clammers," as the fishermen were called, made ich as \$30 a week, good in those days, and they 10000 to Muscatine in droves.

nming was an easy business rt. All you needed was a Boat," a flat-bottomed rig A LITTLE rake, called a "crowfoot a ton. 100. "rea," which consisted of a 6attached about six inches 1000 The 4-inch hooks were fas-LDS. to the bar in strings of DURGE About 39 hooks were used UD THEE und he dredge was dragged up s have been known to be dollars. at one time on 39 hooks.



An outdoor laboratory, headed by trained personnel, affords lowa teachers a chance to learn conservation first-hand. The camp offers teachers credits toward certification.

out ron rod with four-pronged form of clam fishing, most popular The "boom" lasted only ten It least. Anyone living in was overstocked and the mussel "cinity of the "cooking out" beds had almost petered out. The of the clammers must have fact that it took as long as ten for an off-shore breeze con- years to grow mussels to a salable y. The mussels were boiled size didn't help the situation alor teen minutes in huge tanks though much time was spent in Is them and make them easier the effort to produce them by arti-

to extract from the shell. The ficial propagation. Erosion, siltashells were sold to the button fac- tion and pollution also played a square of bow and stern, tories immediately at around \$50 big part, and the button tycoons of Muscatine, because of this, and "Pollywogging" was another their number, were in the red.

They blamed this in part on among young boys. The youths politics. One Muscatine manufacwould dive to the bottom of the turer had this to say in a local river and bring up shells in their paper: "Nothing would blight the hands or dig in the sand for them button business more quickly and on the river banks. They sold the effectively than the ascendency to and own through the mussel bed shells but the big thrill of "polly- power of the Democrats. In fact ov song rope. Two of these rakes wogging" came from finding a ... if Bryan should be elected this sli round \$2.00, the boat from pearl. Freshwater pearls some- fall, everything in our factories \$10. As many as sixty good times sold for several hundred would drop 20 per cent that minute. We could not help ourselves." Residents of Lansing will easily next step was odorous to years. By 1900 the button market recall the button manufacturer who, in the 1930's and '40's, hired local housewives to sew his button output on sales cards. At that time Lansing, rather than Muscatine, was called the "Button Capital of the World." Buttons are still manufactured there but most of the shell is imported. The Mississippi, Des Moines, Shellrock, Cedar, Wapsipinicon, and other Iowa rivers continue to produce mussels. The State Conservation Commission licenses clammers and says that manufacturers of pearl buttons or of fish bait may possess mussels which have been lawfully taken. In fact, regulations concerning mussels occupy two full pages of the Conservation Commission's official code book and all clammers should consult their local conservation officer before going into the business. There's not much competition though. Only five licenses were sold in 1961. So the business of clamming and the manufacture of pearl buttons continues, zippers and plastic imitations notwithstanding.

CONSERVATION CAMP **Carol Buckmann**

With blue sky and fleecy clouds for a roof, a classroom filled by the great outdoors with timbered hills, a blue lake, prairie carpets and wild flowers and birds, Teachers' Conservation Camp at Springbrook State Park prepares to open its doors.

Every summer for the past 12 years, teachers of all ages have been "learning by doing" at this remarkable school using nature as a textbook and conservation as its aim.

They gain a lasting appreciation of nature and learn ways of developing these attitudes and understandings within their students. They also earn graduate or undergraduate credit. Credit from the two courses offered during the three three-week courses are acceptable as natural science requirements for certification.

This outdoor laboratory, sponsored by the Department of Public Instruction, the State Conservation Commission and the State College of Iowa, is taught by experts trained in the field of conservation. There are facilities to adequately take care of 50 teachers each session at this lovely park seven miles from Guthrie Center.

Teachers must know how to teach conservation, consequently, stress is placed upon curriculum development, conservation materials that are usable in the classroom, audio-visual aids, use of resource materials, simple demonstrations and experiments that can be performed by youngsters. During one three-week course, students travel approximately 1,000 miles to various areas for a view of conservation in action. Much of the work is in the field and a bus called the "Green Hornet" will take you within fairly short walking distance of the points of interest. Students stay in the group camp at Springbrook State Park and have excellent meals with no KP duty. Visitors are always welcome at camp but facilities are not available to permit students to have their families with them throughout a course. The major fields emphasized in Biology 104 are soil nutrients, wildlife and the balance in nature. In Biology 105, rocks and minerals, soil, water, and forest resources are stressed. Biology 105, Iowa Conservation Problems A, is taught during the first session, June 10 through June 30. Second session, Biology 104, Iowa Conservation Problems B, is taught from July 1 to July 21. The third session is a repeat of Biology 105, from July 22 to August 11. Tuition for undergraduates is \$42. Industrial arts fee \$1.50, room \$3 and board \$58.14, bringing the total cost to \$104.64 for one three-week course. For graduates, (Continued on page 32)

Page 31

The baby blue whale doubles its birth length of 24 feet in seven months.



d hand at clamming, Joe Martelle of Harpers Ferry checks his catch of mussels.

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THE NORTHERN HARDWOODS AND BUR OAK

John Stokes Assistant State Forester

This article will be the last of three articles dealing with Iowa's four major forest types.

In this issue we will discuss the bur oak and northern hardwood forest types. The northern hardwood timber type contains Iowa's best quality stands of trees.

NORTHERN HARDWOODS

In the heavily forested hills of northeastern Iowa are remnants of the northern hardwood forest type. The chief species of this type are basswood, sugar maple (often called hard maple) and northern red oak. Also found in this association are black ash, cherry, and aspen. Aspen and birch often occur in small acreages and this association is in some cases classed as a separate forest type. It does not occur in enough counties to be commercially important as a source of raw material for wood using industries. The northern hardwood type makes up only about 3 per cent of Iowa's forest of the most valuable forest stands est fires. in the state. There are 78,000 acres of timberland in the northern forest type and 66,000 acres occur in the northeastern part of Iowa. Counties in this part of the state range from 13 to 32 per cent adapted to extremes of drought reported in future articles. forest cover. Products from tim- and temperature; it frequently ocproducts such as maple syrup and relatively open stands so that the candy. About one-half of the tim- volume, quality, and growth per ber cut in Iowa has been coming acre are very low. Usually stands from forests in the northeastern are small in acreage and this probsection of the state. growth rates increase rapidly as about 10 per cent of the timber management is continued. In no cut in the state. Market outlets other part of the state have past have not developed in western fires caused more damage to valu- Iowa, except for bottomland speable timber stands than in north- cies, as fast as in other parts of east Iowa. Happily, in the last ten the state. years the situation has improved Perhaps the primary value of to where fires are a rare occur- bur oak timber stands is in soil rence. The present growing tim- and water conservation. Trees prober stands are showing better vide desirable watershed area



Harvesting the timber crop in northeast lowa; products from this area include veneer logs, lumber, railroad ties, pulpwood, and specialty products like maple syrup and candy

area. However, it contains some quality due to the absence of for- cover in many counties in western Iowa.

BUR OAK

mon in western Iowa, constituting ings of evergreen species in west-21 per cent of the forest cover in ern Iowa. This experimental plantably accounts for the fact that Several stand studies show that western Iowa contributed only

A recent CONSERVATIONIST arti The bur oak type is fairly com- cle dealt with experimental plantthe prairie area. Bur oak is well ing will be continued and results

In summarizing Iowa forest outberlands in this part of Iowa in- curs in pure stands and is increas- look, much remains to be done in clude: veneer logs, lumber, rail- ing along the Missouri River putting timber under management. road ties, pulpwood and speciality Bluffs. Bur oak usually grows in In the last ten years additional wood-using industries have located most successful! in the state, helping the marketing possibilities for the eastern part of Iowa. Continuous research is being carried on in order to find additional uses for all species of trees. The Conservation Commission now has eight district foresters located over the state to assist landowners in timber management and marketing problems. District foresters are located at Adel, Anamosa, Chariton, Denison, Fairfield, McGregor, Muscatine, and Independence.

A MOST SUCCESSFUL DEER SEASON

Iowa deer hunters broke all p ords during the 1961 deer seas A total of 5,367 deer were legal harvested, with permit gun hus ers accounting for 4,033 deer, be hunters 367, and unlicensed famers and landowners 967.

Gun permit hunters had a huntsuccess ratio of 51.6 per cen which is very good success for dehunting in midwestern agric tural areas such as Iowa. The au ume 21 hunters hunted a total of 119,1 hours, or an average of 29.5 hour for each deer bagged. Deer we observed at the rate of about of deer per two hours of hunting m the average gun hunter reported sighted 15 deer.

Bow permit hunters recorded astounding 17.1 per cent hund success ratio while bagging deer. Iowa bow hunters have M an enviable record for the $\mu_{\rm c}$ several years and their 1961 hun ing success will undoubtedly ru very high nationally. The bo hunters spent a total of 103.8 hours hunting their game, or average of 283 hours of recreating for each deer reduced to posse sion. Deer were observed at U rate of about one deer for en three hours of hunting, with !! average bow hunter sighting abo 15 deer during the season.

A more complete analysis be given at a later date, but D analysis will reveal one thing the 1961 Iowa deer season W

Page 32

GET THAT NEW LICENSE!

It's time to go fishing! After a long, dreary winter we all are anxious to head for the water and wet a line. Be sure your tackle is shipshape and ready for a summer's use, and don't forget your trout stamp and your new fishing license. Better yet, buy a combination license and be ready for a full year of hunting and fishing enjoyment.

Marten dens are normally in a tree, in a convenient cavity, though dens in the ground have been reported.

the rarest North American mammals.

CONSERVATION CAMP-

(Continued from page 31) the fee is \$110.64 total. In U case, tuition is \$48, industrial # fee \$1.50, room \$3 and boa \$58.14.

Sportsmen groups, Soil Consi vation Service Offices, and oth groups throughout the state ha been donating scholarships of val ing amounts, usually between § and \$60 to local teachers to fao tate their attendance to the Io Teachers' Conservation Camp. casionally, a local group is not al to find a teacher in the commun who is able to attend camp a the group turns the amount of to the camp with the understar ing a teacher elsewhere could awarded the scholarship.

You may obtain information scholarships from your local S Conservation Service Office, spor men's clubs, conservation officer by writing Ben Clausen, Direct Conservation Camp, State Colle of Iowa, Cedar Falls, Iowa you can write to the State Cons vation Commission, Public Re tions Section, East 7th and Cou Des Moines 8, Iowa.

Reservations and further inf mation regarding the Teache Conservation Camp are availa The black-footed ferret is one of through Ben Clausen, Direct I.T.C.C., Science Department, St College of Iowa, Cedar Falls, 10

taining some of our most valuable forest stands, it contributes half our timber production.

