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November, 1963

Number 11

RINGNECKS CAN TAKE IT!



Unaffected by snow and cold, the ringneck pheasant is lowa's number one game bird.

Jim Sherman Photo

37 Hunting Seasons Prove It!

Dick Nomsen Pheasant Biologist

d game shooting in Iowa's fertile fields. Modern agriculture ht tremendous changes in this state's rolling countryside during entury. Native prairie species were unable to flourish as they n the past, but during the same period, the ringneck pheasant ered. In addition, he has astounded conservation officials and smen with his uncanny ability to withstand greatly increased ng pressure.

first hunting season was established in 1925 to harvest the is cocks. By 1930, shooting was permitted in 24 counties for half-days—a total of 13.5 hours. It was soon realized that this game bird could more than hold his own against the increasing er of hunters. Total hunting time allowed in 1940 was 31.5 hours the use of mechanical corn pickers greatly increased, reducing ield cover and favoring the hunter. Pheasants continued to and expand their range.

Pheasant populations fluctuated a great deal during the forties. Favorable nesting conditions in 1940-41-42 resulted in extremely high pheasant numbers. However, by 1947, populations had decreased considerably following several poor hatching years caused by adverse spring weather conditions.

Good years or bad, there were always more than enough roosters amazing Mr. Ringneck continues to thrive and provide choice the following spring to insure egg fertility. By 1950, hunters were allowed 25 half-days to try their skill.

More Birds to Shoot

Improved census techniques and intensive studies during the past twelve years continued to show surplus cocks remaining after each season. Iowa hunters were able to harvest an average of 65 per cent of the roosters; sometimes going as high as 75 per cent in local areas of high pheasant populations and heavy hunting pressure.

It is an established fact that up to 90 per cent of the cocks may be shot without harm to the brood stock. Results from these studies encouraged the lengthening of the hunting season to allow Iowa hunters than double the 1930 season. It was also during this decade greater opportunity to enjoy this excellent sport. Although shooting hours have been more than doubled in the past six years, the percentage of cocks harvested has remained essentially the same.

(Continued on page 87)

Iowa Conservationist

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CIRCULATION THIS ISSUE	57,000

COMMISSION MINUTES JOINT IOWA-NEBRASKA MEETING

A joint meeting of the Iowa State Conservation Commission and the Nebraska Game, Forestation and Parks Commission was held at Wilson Island Game Headquarters near Missouri Valley September 28, 1963. The two Commissions held a discussion of the problems involved with the acquisition and development of various recreational and hunting areas on the joint boundary formed by the Missouri River and adjacent areas. They also heard various reports on the present status of those areas.

The Superintendent of Engineering was authorized to negotiate a contract for the construction and repair of the 3.2 miles of road near Black Hawk Lake.

STATE CONSERVATION COMMISSION MEETING Bellevue, Iowa, October 8 LANDS AND WATERS

Approval was given the 1964 price list for nursery stock from the Ames Forest Nursery to be established the same as last year.

Options were approved for three areas adjacent to the White Breast Forest Unit consisting of 310 acres at \$30 per acre, 20 acres at \$15 per acre and 35 acres at \$15 per acre.

A report was given on the state park roads program and a priority list approved to extend through 1968.

A design for a bath house at Rock Creek State Park was approved and authorization was given to advertise for bids.

Cass County.

for road repair work adjacent to Black Hawk Lake and authorizain that area if weather permits.

Manawa.

on a proposed gift of 137 acres of river access for fishing. land on the Wapsipinicon River Jones County received approval Creek area on the Mississippi deer biologist.

near Anamosa which would be given contingent on the Commission's purchase of 900 acres adjacent at a cost of \$187,000.

The Superintendent of Engineering was authorized to make preliminary negotiations for construction of a bath house at Rock Creek State Park.

A request from Fanning to construct a boat house and ramp on East Okoboji was denied.

FISH AND GAME

County for \$400.

Trout Hatchery comprising 17 than most other men. acres at a cost of \$650.

Approval was given for the transfer of maintenance and management of Rush Lake in Palo and Game Division.

range on the Flint Access area in birds. Polk County in cooperation with

in Wright County.

list for Conservation Officers, with the naturally luscious flavor, a school to be held this fall to create a new eligibility list.

COUNTY CONSERVATION ACTIVITIES

approval for the acquisition of or two birds per serving. 32.736 acres of land as an addition to a wildlife marsh in the north- on a development plan for a rest River south of Bellevue. west part of that county at a total area on Highway No. 64. cost of \$5,629.

use recreation area.

for the acquisition of 4.36 acres for a plan to increase the water this desirable and in case of of land as an addition to their area of two existing ponds on the culties with weather. Ellis Park area with a total cost Palo Marsh Wildlife Area by A report on planning work

A bid of \$17,982 was accepted way safety rest area located 71/2 Executive Council approval. miles east of the town of Anamosa Howard County received ap- The Director announced th on Highway No. 64.

further work on 1.3 miles of road proval for a development plan for Access area which is also owned Stokes as State Forester, I Cutshaw Park, consisting of a by the State Conservation Com- Harrison as Superintenden Approval was given for the in- 35-acre tract in the northwest part mission. stallation of a boat ramp on Lake of the county on the Wapsipini-

A Code for Young Hunters

John Madson and Ed Kozicky

If the hunter is asked to explain his sport, he can no more rational hunting than he can describe emotion. His hunting is and has alw been, a conditioned instinct that is largely emotional.

The careers of many hunters exhibit a strange evolution. As be we often hunt with a single purpose: to kill game and prove oursel men. A sure sign of youth is hunting solely for the sake of killi While young, we have stark, black-and-white values: a gun is to she a bird is to be shot, and the measure of a man is the weight of game bag.

If a boy begins hunting early enough and hunts long enough, I old red hunting urge may undergo a subtle change. The vete Approval was given for the pur- hunter never loses his love of hunting, but it becomes tempered w chase of a flowage easement on an almost mystic respect for the creatures he pursues. This is the Miami Lake site in Monroe hunter's greatest reward, and can usually be earned only by long ye of rich experience.

An option for purchase of an Part of the hunter's deep attachment to wildlife may stem fi area near the Clear Lake Fish the fact that he sees wild creatures at their best-when they are be Hatchery for use as a parking lot hunted. It is then that they are strongest, freest, and sharpest. at a cost of \$10,000 was approved. completely safe, "protected" wild creature is something of a vegeta Approval was given to an op- and somewhat the same thing might be said of man. Hunting is a gi tion for an access area on the of intense concentration, and a dedicated hunter is more caref Turkey River near the Big Springs attuned to his environment-and is far more receptive of natural

Eating Those Quail

A necessary first step in pre- Brown the quail halves in a Alto County and Lizard Lake in paring quail for the table is early or quarter inch of butter or or Pocahontas County to the Fish cleaning of the game. Store in ing oil over a medium fire. the coldest part of the refriger- and pepper to taste. Approval was given to plans ator and, if they are to be kept for the development of a rifle more than a few days, freeze the

There is a long list of recipes the sheriff and police departments. for preparing birds to eat. Some A report was given on the recipes call for only stewing with pumping operation at Elm Lake a bit of seasoning. Other instructions involve pre-soaking, addition Approval was given for the can- of herbs, spices, or other condicellation of the present eligibility ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words smothering a few times while they are fit is the smooth beautiful ments; in other words are fit is the smooth beautiful ments; in other words are fit is the smooth beautiful ments.

A very simple recipe, and one of the best, is as follows: skin or jam. A good complement to pluck the birds, wash and split quail is baked potato and c along backbone and breastbone, berry sauce. For dessert, This gives two halves which lie pumpkin pie. Invite either fri Cerro Gordo County received nearly flat in a skillet. Allow one or enemies—you will have no

Chickasaw County received ap- proval for a development plan for Midwest Wildlife Conference proval for the acquisition of 80 Griffin Park, which consists of 40 St. Louis in December; to acres of land in the southeastern acres and will be used for camp- Fisheries Aquarium at Yan part of that county at a total cost ing, picnicking, and fishing, with South Dakota; and permission of \$12,800 to be used as a multiple- one-third of the area devoted to given to land state aircra reforestation and wildlife cover. limited distance across state

of \$436 to be used as public blasting channels with ditching given by Glen Powers. access to the Little Cedar River. dynamite on low-lying land.

to enter into a management agree- approval for a management agree- mission with Nebraska for and specifications for a construc- ment with the Iowa State High- ment covering the 20-acre Childs ning and development work o tion program on Lake Anita in way Commission for one acre of Access area owned by the Con- Missouri River, and suggested land at no cost to develop a high- servation Commission, subject to two Commissioners be on

proval for a management agree- pointment of Mans Ellerho Buchanan County received ap- ment for the 72-acre Turkey River Chief of Lands and Waters,

con River, to be used for picnick- proval for the cooperative develop- ology, Rex Weddle as Pers The Commission took no action ing, camping, nature study and ment of a new road access to the Director, Gene Goecke as v U. S. Corps of Engineers' Pleasant fowl biologist, and Keith Lars

De Iowa

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grap

Wetat

When the birds are ni and browned and the aroma tempts land to eat the lot right then and the late held place the birds in a flat bal Misso dish. Add milk and cream to hasolution your taste. Now bake in a med la Joint hot oven.

Ladle the liquid over the ing. Serve hot with homen in the rolls or bread, and plum or a hand the mies after a meal like that!

GENERAL

Keokuk County received ap- Travel was approved to Floyd County received approval Linn County received approval dary lines where facilities

The Commission reaffirm Jones County received approval Black Hawk County received resolution to appoint a joint

committee. Biology, Eugene Klonglar Jackson County received ap- Assistant Superintendent



Joint Resolution on Missouri River Development

e Iowa Conservation Commission and the Nebraska Game, Forion and Parks Commission met jointly September 28 at Iowa's on Island Headquarters near the Missouri River. This joint meetwas held to discuss mutual problems concerning the development ne Missouri River. The discussions culminated in the following resolution reaffirmed by both Commissions at regular meetings: a Joint Resolution the Nebraska Game, Forestation and Parks mission and the Iowa State Conservation Commission hereby uct their respective Directors, M. O. Steen and E. B. Speaker, ppoint a Committee to plan jointly the development and operof Missouri River areas and to authorize this Committee to act ly in the interest of the two states in the planning of various es of the program."

THE WILD WAPSI

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med, Muddy, Treacherous, River Looks to be Straight From the Jungle

tradition, the Wapsi is the est, cussedest, ugliest river in heastern Iowa. It is habitunuddy; it harbors rattlesnakes watersnakes; it has mosquibig as bumble bees and snapturtles the size of washtubs. banks are invariably a snarl ild grape, swamp birch and w thickets, and where there vegetation you will see rotstumps or gnarled roots or in sandbars that come and go e Wapsi's whim.

st rivers spawn the growth of s, but not the Wapsi in the -City region. South of Anathe Wapsipinicon is almost of any communities.

rn in the flatlands of Minnethe Wapsi is a pretty little with shelves of limestone and ers of pines in its upper ies. But by the time it reaches dississippi it is a tired, abused, -out river. This may explain intankerous, often treacherous ides.

e day you may walk a mile tts sandy shores in water no er than your ankles. Twentyhours later, that mile may lay

covered with a half-dozen feet of swirling, muddy water. As rivers go, it has a violent temper. It has been known to rise eight feet in a day of heavy rain or spring runoff.

The Wapsi is treacherous, littered with hidden logs and snags, and you had best not navigate it with any more than a five-horsepower motor. Its treachery is often a clever ruse to trap the unwary. Where there was no hole yesterday, there may be a 25-footdeep pit today. You may walk along its bank, feeling totally safe, and then drop abruptly into a pit

send hunters and fishermen a sprawling.

Its bottoms are jungle-like, and in the words of Fred Lorenzen, outdoor writer for the Sunday Times-Democrat, "It is nature's own paradise because so few people will go into that kind of country."

Float quietly downstream in a big flatboat and hear the shrill, high-pitched alarm call of a wood duck up ahead, and on that dead willow stump, a great horned owl clicks and snaps his bill at your intrusion. A beaver will slap his tail in the water, and at twilight, if you're lucky, you may see a doe quietly bring her fawn to the water's edge.

There are wild turkeys, herons and graceful egrets, and the Wapsi is a favorite migratory river for ducks and Canadian geese. The woodcock, too, migrates along the Wapsi bottoms in its fall stopovers to Louisiana or Mississippi. It has a tremendous population of 'possum and raccoon.

It also has rattlesnakes.

those Wapsi snakes unless one of them bites you," laughs the bar-

There are obvious reasons why takenly called "seaweed." its muddy appearance.

Despite its evils, its mud and its rain-to-rain changes, there are many who love it still. The Wapsi is beautiful in the fall, and in the very early spring its water can be gin clear. Some persons have cottrick: to undercut its banks and even pike. - Davenport Times.

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Managing Editor

THE SEAWEEDS

David H. Thompson

As the number of people in the world increases and the number of acres of fertile soil to produce food for them decreases, man looks more and more hopefully at the huge expanses of ocean for relief from hunger. For ages, fish and other sea foods-including Seaweeds have been mainstays in the diet of seafaring peoples, islanders and coast dwellers. Even in the Middle West we are accustomed to eating saltwater fish and shellfish. Seaweeds, however, are not seen on the vegetable counters of our stores but, unsuspected by most of us, products of seaweeds are found in many of our foods, medicines and articles in daily use.

Most seaweeds grow attached to underwater rocks, reefs and the sea bottom down to depths of 100 feet or more. Although many of them vaguely resemble flowering plants in size and shape, they do not have true roots, stems, leaves "You don't have to worry about or flowers. Instead, they are members of that great group of lower plants called the Algae and tender at a McCausland tavern, as should not be confused with the he consoles some worried fisher- submersed vegetation in fresh waters, which is sometimes mis-

the Quad-City Wapsi region is so The Kelps, largest of the Brown much like a Noah's Ark for wild- Algae, thrive best in cold water. life. Look down upon the Wapsi- The Giant or Vine Kelp with a pinicon from the air and you see slender stem anchored to a holdits winding, wooded path is a nat- fast in deep water is reported to ural refuge in a sea of corn, oats reach lengths as great as 1,500 and soybeans. The land has been feet, making it the longest plant cultivated close to its wooded bot- in the world. Along this stem are toms, thus chasing wildlife into its many yard-long leaf-like blades protected perimeter. The close-in buoyed up by egg-sized floats like cultivation is a major factor for stockings hung on a clothesline. Other kinds of kelp, each with its distinctive shape and habit of growth, have such colorful names as Devil's Apron, Fan Kelp, Bull Kelp and Ribbon Kelp.

Varied Use

The Sea Mosses, members of the tages rimming its banks, and for large group of Red Algae, are delicertain types of fishing, the Wapsi cate cylinders, sheets, ribbons or can't be beat. The Iowa Conserva- feathers seldom larger than a tion Commission says it's the finest man's hand. Many are found in spot in the state for channel cat deep water where their red pigfishing. It also has an abundance ment enables them to grow in dim of yellow-bellied bullheads, flat- light. The Japanese cultivate cerof muck. This is a favorite Wapsi heads, carp, crappie, walleyes and tain kinds on bundles of bamboo in underwater farms. Others are the source of agar used as a laxative and to make the jelly on which bacteria are grown in laboratories. Puddings are made from Irish Moss and St. Patrick's soup from another kind called Dulse.

> Seaweeds are rich in many for human health. They add bulk to the diet but are rather poor in fats, carbohydrates and proteins. Formerly, they were an essential source of iodine and potassium. More recently an industry in California, using mechanical harvesters mounted on barges, processes kelp into a number of useful products. Among these is a substance called

(Continued on page 85)

MAMMALS IN WINTER

Carol Buckmann

When the word hibernation is mentioned we usually think of the famous winter sleepers, bears and woodchucks. Comparatively few animals actually do hibernate. Woodchucks, ground squirrels, bats true hibernators.

True hibernation is said to be when an animal is inactive, heartbeat, breathing and digestion slowed and body temperature close to the surroundings. Animals such as bears, skunks, raccoons, badgers and opossums sleep away part of the winter but will venture from their winter quarters during mild periods. Their body temperatures remain higher than the surroundings.

rats and rabbits are active all are found in knotholes. ing no attempt to store food.

Many do rely on stored food hibernate. supplies such as field mice and squirrels gather food all summer, shelter to escape dogs and foxes. Bats prefer places with little winter months. One can e increasing the supply in autumn. To prepare for winter, wood- temperature variation usually in find their nests and runways u Most mammals consume large chucks feed in summer and get fairly large caverns with small the snow where grass grew

quantities of food in the fall to safeguard their lives by heat production.

Chipmunks differ from squirrels in that they spend the entire winter in hibernation when it's severely cold. In the fall, they carry and jumping mice are nature's only acorns, hickory, beech and hazel nuts, seeds and grasses to their underground storage chambers connected to nests and located to the lee side of a log or stone. The hole is plugged and litter and grass cover it completely isolating chipmunks for their winter naps. Here they sleep singly or with several pairs sharing the same chamber.

Red, fox and gray squirrels don't hibernate but reds make small winter tree holes or larger shelters of grass and twigs in trees. These serve as shelters for use in severe The majority including mink, weather. They store shelled nuts weasels, wildcats, field mice, musk- and seeds here but caches of fungi

winter facing winter's hardships The hardy little flying squirrels squarely. Many of these mammals use hollow trees for winter homes hunt food from day to day mak- or woodpecker holes. Even at the Arctic Circle, flying squirrels don't food supply. The burrow is four of the water in a winter terri

squirrels. Field mice store caches the lives of wintering animals, normal body temperature is 98 de- Most mice remain active of seeds and nuts or establish run- Their burrows not only serve as grees F but during hibernation, year as do moles and shr ways beneath the snow feeding places to hibernate but also as it drops to 37 degrees F. While These small mammals occasion on left-over grass and seeds. Squir- homes or refuges for other animals dormant they respire an average run about on top of the snow, I rels are natural collectors storing such as raccoons, opossums and of once per minute contrasting to frequently using runways u seeds and nuts for winter use and skunks. Rabbits and small rodents from 20 to 30 times per minute the snow. Field mice remain becoming fat in the fall. Red may use the dens for temporary when active.



The ground squirrel is one of nature's true hibernators.

ner not

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der mer

very fat. Then in September or matches the snow and is October, they go into their winter known as ermine. quarters. The large amount of fat Mink also are active all under their skin, which provides foraging along frozen brook ba winter nourishment is their only ice edges and dodging in and or five feet below the ground and considerably larger than his : Woodchucks play a vital role in 20 feet long. While active, their mer territory.

> entrances. With the first chilly in the summer. September nights, they become Jumping mice have a thick less frequent and, by October, they blanket under their skin and disappear. Bats either hibernate bernate in burrows a safe dist within their summer regions or mi- from deep water. They are grate to warmer areas but have only mouse to hibernate and definite winter resorts in caves main in the dormant stage any direction from their summer warmer weather arrives. haunts.

ishment but, following several days ture remains low and coming of torpor, will spend a day flut- if the temperature rises. Ofte

in open areas where his main win- enough to normally drive ter supply of rabbits and mice are into hibernation. These ordin found. Following his tracks from nocturnal animals begin ma stump to stump or along fences daytime weather checks in M reveals his persistent efforts to -if not to their liking, bac find mice under the snow. A fox's sleep they go. best fur coat is in November and December when the tail brush is nators, accumulating fat la one-third as large around as his from eating insects and body. He puts this brushy tail When cold becomes severe, to good winter use. When sleep- take to their dens which are ing in cold weather, he lies with ground chambers one foot ! his body closely curled and tail the ground. Here they lie c brush across his feet and nose, up and inactive unless the ter

dusk but, when food is scarce, they den together in these char hunt at any hour scratching in filled with bulky hay or lined the snow to uncover field mice or grass or leaves. Female st an occasional partridge.

and other small animals during winter. his winter, hunting in open areas. In the north, where winters are things leave a map of their d long and hard, his coat becomes for all to read. Take a winte pure white except for a black- cursion and learn how animal tipped tail. This pure white coat when winter grips the land.

tive and even raise a famil

Raccoons have irregular h Bats rely on body fat for nour- nations, sleeping if the temp tering around and eating a little. 20-degree weather they are The fox spends most of his time moving about in temperatures

Skunks are also semi-l In winter, foxes hunt chiefly at ature rises. Several skunks are confirmed hibernators The weasel, too, lives on mice males are active throughout

When snow comes, all



Notes On Quail Hunting

M. E. Stempel

Game Biologist uail hunting time is when imer is only a memory. The wn leaves fall, the hunter's on sends the red fox searchthe hills.

le buy some quail loads along h a few number 6's for the es when we are fortunate ugh to hunt where there are asants. The open-bored gun pest for quail, but if we have all-purpose shotgun we can the special brush loads for choked barrel, being careful pattern that gun just in case loes not shoot dead center.

7hen you hunt, a falling baeter means restless quail. Fur-, if chickens in farm lots are tered all over the place, nces are that quail will be And most important, before go into the field, get permis-

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to shoot there. uring the hunt we all want be where the cover appears Learn whether the place recently hunted; if so, the han be s may run like scared hares ead of holding as quail should. may wish to move on to aner place, or you can hunt ard the open ground on the ace that birds will flush within ge. Hunt slowly, remember as a hunter you are aiding are in skimming off the weaker s. Be sure to leave at least it quail in an area. Only 30 cent of the breeders bring off

> uail always leave signs of their sence. Look for feathers, dustplaces, droppings and tracks. o not make the hunt a walkit-shoot affair; instead, enjoy dog. If you have no dog, ch carefully for the most nising places. If you want /, deliberate shooting, stay in open-for fast shooting, hunt brush. If you knock a bird n, look for it at once and is not found immediately, go to another spot for a quarter in hour. Return, take another on where the quail fell and 'll likely walk right up to it. fter the shoot, memorize where found the quail and recall how flushed and alighted. Next you'll use that information. you are not near home you wish to dress the birds, esally if it is warm. To do quickly, cut off the neck the body, take off the wings e one of these to your conth dates by examining wings). quail on its back; split the hunting. across the abdomen; pull the both ways from the incision. delicate meat comes out like ear of corn when you pull the husks. Now remove the erds. With a little practice, d in five minutes.



A good dog adds immeasurably to the sport of quail hunting. This year's season

Don't By-Pass the Hun

often unnerved by the shock of a drop might offer some shooting for covey burst while pheasant hunt- the uncertain hunter who missed ing. The birds are often "over the his first chance. hill" before anyone thinks to take a shot. This is not considered quail country, but the covey burst is a reality for many hunters. The little bombshell with the rufous tail is a Hungarian partridge—an introduced species now doing quite well in the Iowa northwest.

should be one of the best in recent years.

ually spreading south. In view of this, Ida and Sac counties were west Iowa counties open to hunting for the partridge.

Most people do not take to the ation officer as we record field with the intent of taking Huns. These birds are usually love tail and legs. Now turn taken as a "bonus" when pheasant

> For most hunters it is a matter of pursuit after the initial covey burst leaves them wondering if the birds might not be young pheasants. Huns tend to hold as a covey the usual scattering of quail after Sioux and Winnebago.

Northwest Iowa hunters are being flushed. Marking a covey

between the quail and the pheas- and widely distributed. ant. They are a relatively plump bird best identified by the rufous try over the farm grove cover so time. Huns appear to have been grad- popular with pheasants in this part of the state. Coveys will be seen in the middle of a field on the coldest added to the other fourteen north- winter days apparently quite com- fine, close-lying fur. fortable and contented. If it gets too blustery, they may move to brunt of the wind.

The open season on Huns is the same as the pheasant season, November 9 through January 1. Shooting hours are 8:30 to 5:00 p.m. with a bag limit of two and a possession limit of four. The open counties are Buena Vista, Cherocock, Ida, Kossuth, Lyon, O'Brien, can clean your four or five after their first rise differing from Osceola, Palo Alto, Plymouth, Sac.

SEAWEEDS—

(Continued from page 83)

"algin" which gives body to other substances. It prevents the chocolate from dropping to the bottom of your chocolate milk and keeps your ice cream from rapidly melting into a puddle. It is used in shaving cream, shoe polish, lipstick, shampoo, cosmetics, lubricating jellies and as sizing in cloth.

Often a Food

Kombu is a food prepared from seaweed by the Japanese for use in soups, on meat and rice, or nibbled after crisping over a fire. As a result, because of its iodine content, goiter is almost unknown there. In the Scandanavian countries and the British Isles, herdsmen near the coast feed seaweed to their cattle or graze their sheep on it at low tide. In Ireland potato fields are fertilized with kelp.

In 1492 Columbus sailed into a vast expanse of floating seaweed, much to the terror of his men who imagined that this was the legendary graveyard of becalmed ships. This Sargasso Sea, with its unattached Gulf Weed, covers an area as large as the United States, extending half way across the Atlantic east of Florida and the West Indies.

Some sea serpents may be nothing more than large kelp seen in dim light by sailors after a night in port.

Did You Know?

Mammals are vertebrates or backboned animals, and the word 'mammal" comes from the Latin mamma meaning breast.

The varying hare's long hind legs carry it over the ground at 30 and more miles an hour.

The voles are a populous group of small rodents of which the mea-Huns are about midway in size dow mouse is the most numerous

Wood rats live alone except patch on the tail when they are when mating or rearing offspring. flushed at close range. They are They occupy one home throughout hardy birds preferring open coun- the year and generally for a life-

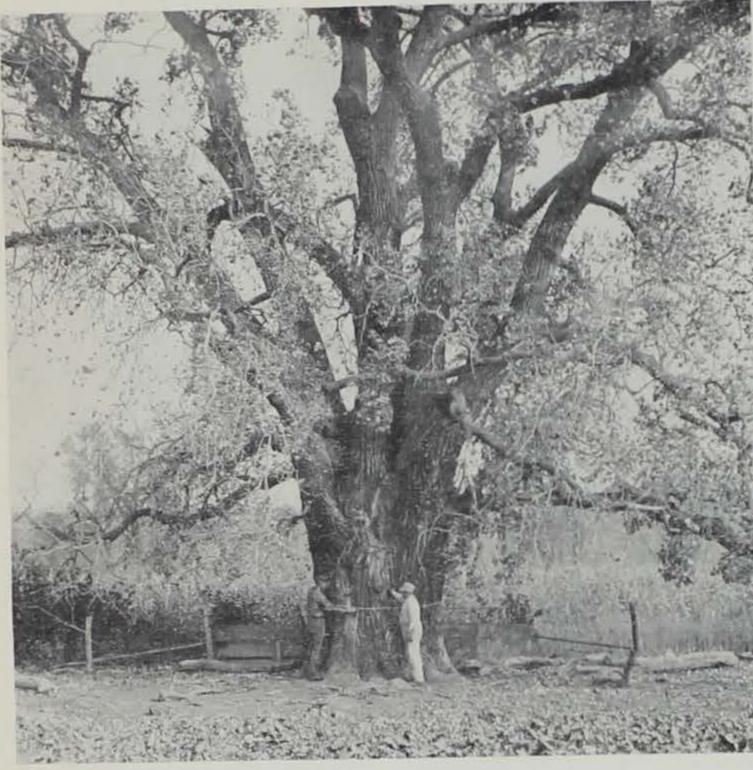
> The flying sqirrels "wings" are actually folds of skin covered with

Prairie dogs drink when showthe lee side of a hill to escape the ers leave puddles but between times do without water, like other dwellers of arid places.

> Although the hair seal measures only five feet long, it might weigh over 250 pounds.

So dependent is the lynx on the kee, Clay, Dickinson, Emmet, Han- snowshoe rabbit for food that a great die-off of the large hare is followed by starvation among lynxes.

A National Record?



lowa may have a national record cottonwood in this giant located on the Harold Byers David Bathurst of Greenfield found the tree to culminate a search begun last spring farm a mile-and-a-half east of Carson in southwest lowa. The tree is on the north side the Conservation Commission. Nebraska had claimed the national record of thirty for the conservation commission. of lowa 92 east of Carson.

IOWA SQUIRRELS

Carol Buckmann

and a new tree takes root.

keen sense of smell.

through inches of snow.

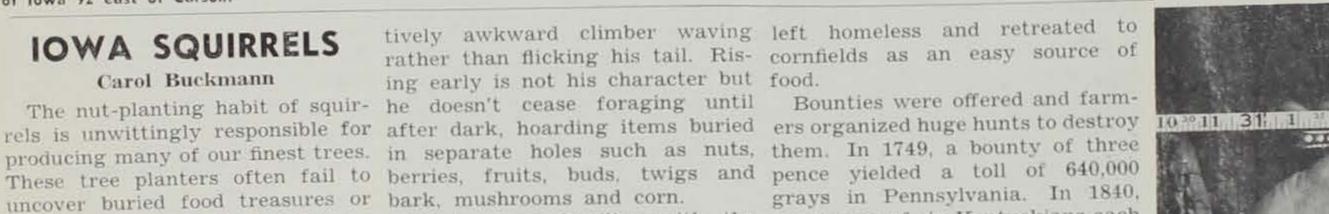
gray and flying squirrels.

bordering trees.

strokes, the nut or acorn is uncov-

ered. These are retrieved even

Fox Squirrel



forget where they buried them- Most of us familiar with the two teams of six Kentuckians each result, the nut or acorn sprouts color of our big fox squirrels would killed more than 9,000 in a week. be surprised to see their shades They are still common, however, Squirrels differ from their close from the normal. In some parts throughout most of their original relatives, woodchucks and ground of the country, they have big range. squirrels, in that they don't hiber- black bodies with white ears and nate. They busily bury nuts and noses. Others are black above acorns in shallow holes near their with buffy or orange bellies or an smaller than the preceding two.

Most buried treasures are uncov- In some areas, there are buff and is seldom seen south of Bremer ered again with the aid of their gray phases while some are uni- County or out of the old white formly tinted with black upper pine forest range. Watch them scamper under parts and cinnamon feet. Inter- The ears are somewhat tufted in circumference. The tree will be to Asse. trees searching for food. Nose to mediates occur between all vari- in winter and there is usually a tered with the American Forestry Asse the earth like a dog following an ations. Fox squirrels are said to blackish line on the sides in sumanimal scent, they sniff around have more different coats than mer. Red squirrels are curious, Before taking off, they sv until the right place is found, any other North American animal full of activity and noisy. They head and body from side to Then, with a few quick front foot family.

abundant and not often seen ex- storing eight to ten bushels of on woodland camp roofs. T Iowa has four varieties of these cept in woods. They're partial to cones in one ground cache. bushy-tailed tree planters com- hardwood forests of northeastern monly known as fox, northern red, Iowa where acorns, hickory nuts, and beechnuts are available. Oc- never seen the fourth member of Of the four species, only casionally a black or melanistic this tree-squirrel quartet, the fly- fox and gray are hunted as gray All Iowans are familiar with the phase is seen with white ears ing squirrel. Although he's not animals with few hunters fox squirrel. Far the largest of the and nose.

city trees and a familiar visitor were so plentiful during colonial large-eyed fellow may live in man, all four are hunted and in yards both town and country, days that they caused serious dam- trees in your own yard, but voured by other predators inc Unlike the gray squirrel, he's not age to the settler's corn and other chances are you won't see him- ing hawks, horned owls, coyl limited to forests and often makes crops. This damage is believed he's a night flyer. Flying squir- foxes and tree-climbing sna his home on a farm lot with a few to have been caused when early rels don't actually fly, they glide The night-hunting owl is a nat colonists pushed westward and by means of an extensive fold of predator to flying squirrels at He's a slower, more deliberate cleared forests for farm land, skin along both sides of their terrifying enemy of all four walker, sometimes a compara- Swarms of gray squirrels were bodies.

31-Foot Cottonwood



in circumference until the tree was disqualified as a double tree.

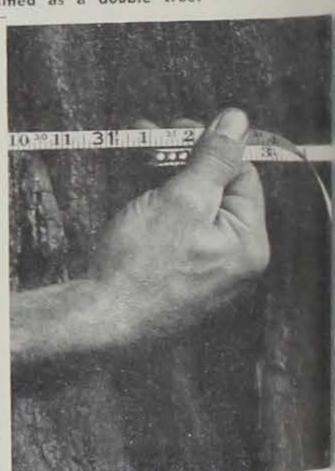
grays in Pennsylvania. In 1840,

Red Squirrels The northern red squirrel is den or home tree for winter use. overlay of white on their tails. While abundant farther north, it

are active by day and moonlit several times evidently to nights. They swim readily and their range. They land with The gray squirrel is much less well. All are great hoarders, often audible thump, a common so

Flying Squirrels

Most people, even hunters, have alight. often seen, this doesn't mean he ging and eating the northern four, he's a common inhabitant of According to old reports, they is uncommon. The tiny, flat-tailed, Although just two are hunted



The lowa giant measures 31 feet, 34

they climb to a higher point glide again, swinging upward

cies.

Where D

and pro mm day v bizzing merable II best mult their pop Herflies d or from flo distrious aboppers a

er ahead re with beetles. Tiorns o mier hon

TECKS

bey hib

e males

d the ma

here Do They Go?

Roberts Mann

rehension.

vitably there comes a night lessly about. the temperature drops much On the following day no s are seen or heard. Where hey go?

grasshoppers died. So did it a few species of butterflies, s, and the adults of many kinds of insects whose young, ver, pass through winter in gg stage or hibernate as larpupae, or nymphs. The ants e in their burrows. The bees huddle in their hives. bumblebee queens and the is of colonies of social wasps crept into protected places they hibernate until spring, he males and workers died. of the male mosquitoes died. lized females of the common mosquito (Culex pipiens), of the Anopheles mosquito 1 transmits malaria, congrein cellars, catchbasins, holtrees and other protected s where they hibernate. The

NECKS-

(Continued from page 81) is year the season has been ded to 54 days, from Noer 9 through January 1, 1964. ing hours have been exd one-half hour each waya.m. to 5:00 p.m. The daily limit remains at three cock but the possession limit has expanded from six to nine birds. The Iowa hunter is encouraged to take more of vailable cocks than he has in

3, pheasants can take it. we have learned from 37 preseasons. Over a quarteron hunters will eagerly tramp elds this fall in pursuit of this y creature. They usually ge four hunting trips and six birds for the season. But an bet that more than 500,000 ned veterans of the cornfields still be crowing "Happy New come January 2, 1964.

quitoes winter over as eggs.

ilking through the meadows, miliar with the adults of insects being frozen. and prairies on a balmy which, seeking places to hibernate, The Viceroy, the fritillaries, and nn day we hear the chirps, manage to creep through cracks the little skippers, are butterflies buzzing and humming of and invade our homes: houseflies, that hibernate as caterpillars. The put the log back as it was. nerable insects. Many kinds the bluebottle and greenbottle swallowtails and the white cabbeen multiplying since spring blowflies, wasps, lady beetles, and bage butterfly are some of those their populations are beyond that harmless nuisance—the box- that hibernate as pupae—naked elder bug.

tterflies dance in the air and A few species of butterflies and coons. r from flower to flower. Bees moths migrated southward earlier

woodland and floodwater mos- periods are continuous-not inter- In winter, if you turn over a rupted by warm thawing days- rotting log, you may find a mouse's Housewives are unpleasantly fa- and some, believe it or not, survive nest, a torpid snake or a sala-

chrysalids not protected by co-

Some of the moths-especially industriously gathering nectar in autumn: notably the Monarch the tent caterpillar, bagworm, pollen. Scads of startled butterfly - sometimes in vast cankerworm, gypsy moth and other thoppers and crickets leap and flocks, sometimes as far as the injurious kinds pass through winer ahead of us. The ground West Indies-and some of them, ter as masses of eggs. The wooly live with myriads of ants, tattered and torn, return in spring bear caterpillar, larva of the Isabeetles, caterpillars and to lay eggs on young milkweeds. bella tiger moth, is a familiar exer forms of insect life. In the Adult angle-winged butterflies, ample of those which hibernate lands, great companies of such as the Mourning Cloak and in the larval stage. The cater- are nine forms of swans of which ts creep down from trees to Red Admiral, hibernate in out- pillars of many kinds of moths, winter homes in weeds or the buildings or hollow trees and be- however, spin silken cocoons America. and humus beneath fallen come torpid but, on balmy winter around them and change into days, may emerge and flutter aim- pupae before winter comes. Most youngsters are familiar with and sued stamps with engraved im-Some kinds of adult insects can collect cocoons of the big silk ages of mosquitoes and other inthe freezing point and the endure long periods of extreme moths—the Cecropia, Promethea, sects. ation is thickly coated with cold while hibernating if those Polyphemus and Luna species.

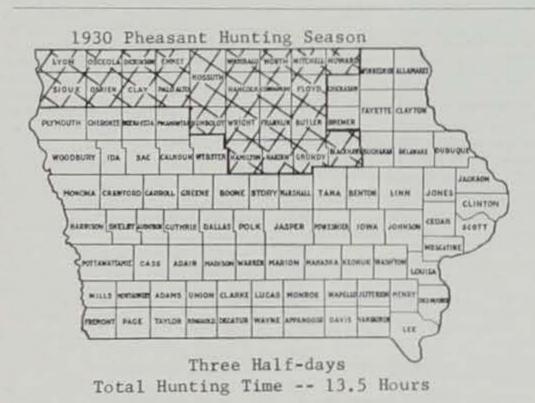
mander, a woolly bear caterpillar curled up tighty, and the pupae of beetles or other insects. Please

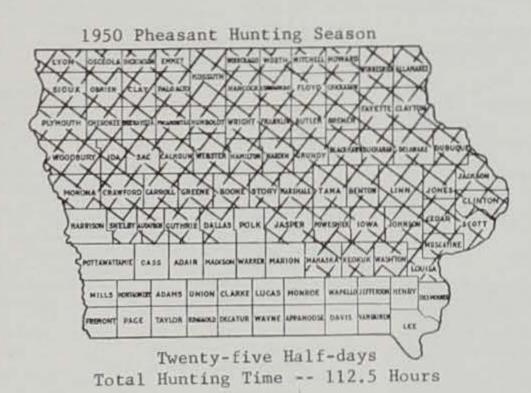
You may learn far more about "Where Do They Go" from the Field Book of Animals in Winter, by Dr. Ann Morgan, published by G. P. Putnam's Sons.

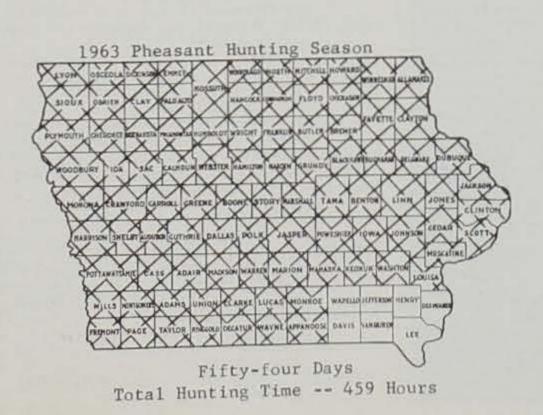
A single square yard of earth can support 10,000 or more individual insects while it requires nearly 21 acres to support one hu-

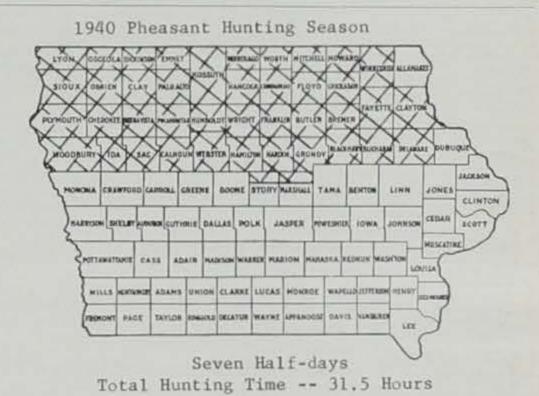
Distributed throughout the world three are found regularly in North

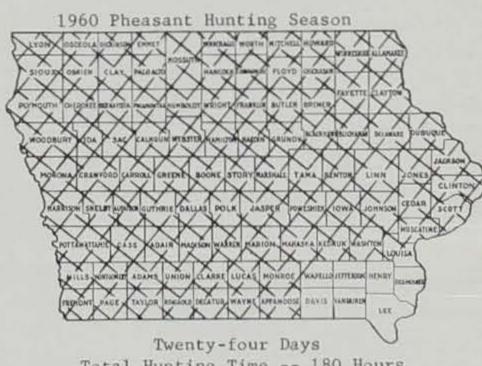
A number of nations have is-



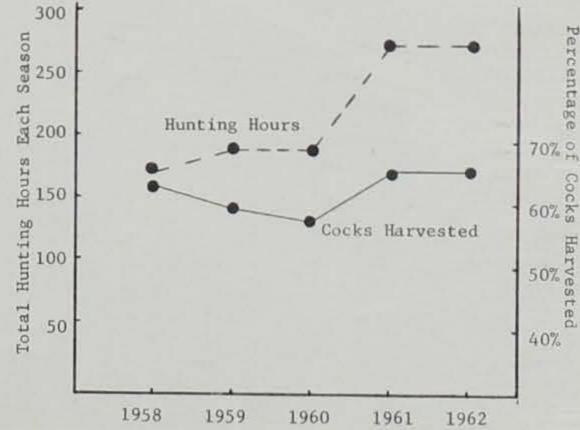








Total Hunting Time -- 180 Hours





Kentucky Bass In Iowa

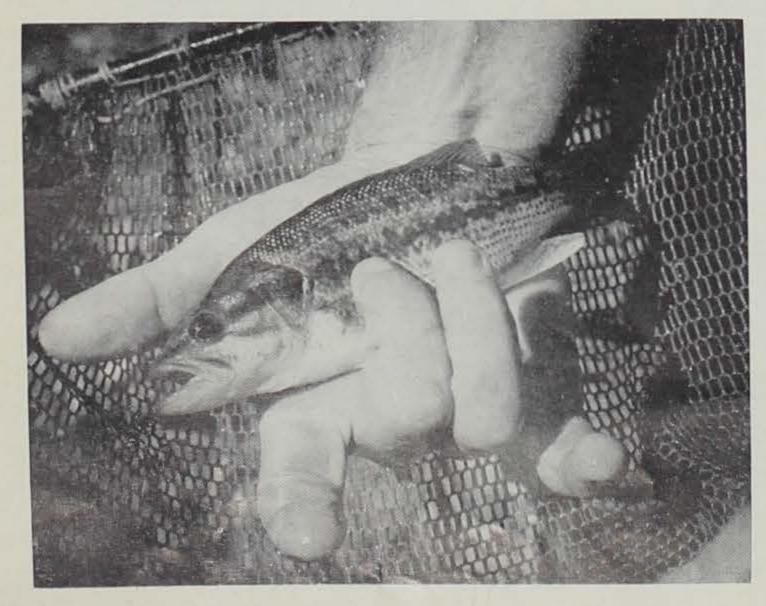
on an experimental basis. Ken- from this year furnished fish for mouth and smallmouth bass. Their near Knoxville, Sugar Creek near tween that of the largemouth and coon River above Coon Rapids.

smaller than either fish.

Missouri were brought to the Wap- in many marginal Iowa streams.

tucky bass are a stream fish simi- limited stocking. These fish were KAKAC, KENNETH-Allamakee lar in appearance to our large- stocked in the White Breast River natural stream habitat falls be- West Point, and the Middle Rac-

The stocking of Kentucky bass These fish tend to school more than do smallmouth or largemouth, and they are generally ure of this venture can be evaluated. The Kentucky bass could In 1961, fingerling fish from offer some fine angling possibilities NEWEL, GENE-Plymouth and Sioux



Here is a current listing of Iowa's Conservation Officers with their territories, and dresses and phone numbers. This list is offered to provide Iowa sportsmen information helpful in contacting these men who are locally responsible for Commission program Area Code Telephone Name, Territory, Address, Zip Code SON, MAURICE (Mickey)—Clinton 523 Second Avenue, Clinton (52732) 319 242-6956 ANDERSON, MAURICE (Mickey)-Clinton ANGELL, GLEN-Bremer and Chickasaw ASHBY, WESLEY—Fayette Fayette (52142) BALDWIN, JIM—Clay and O'Brien 121 W. Tenth, Spencer (51301) 713 262-3001 ASHBY, WESLEY-Fayette BASLER, BILL-Dickinson R, BILL—Dickinson Box 625, Lake Park (51347) 712 5821 BASLER, DICK-Woodbury R, DICK—Woodbury Box 154, Lawton (51030) 712 872-6633 BECKER, JIM—Buchanan and Delaware 512 Fourth, Independence (50644) 319 DE 4-2197 BEEBE, BILL-Scott 2611 W. Locust, Davenport (52804) 319 326-5851 ume 22 BEECHER, WESLEY-Jackson ER, WESLEY—Jackson 300 High Street, Bellevue (52031) 319 872-3391 BUTLER, RICHARD—Black Hawk Box 531, Cedar Falls (50613) CARTER, HAROLD—Clarke and Decatur 830 S. Park, Osceola (50213) CMELIK, RAY—Crawford and Monona 807 Courtright, Mapleton (51034) DAVIS BEN Flord and Mitchell DAVIS, BEN—Floyd and Mitchell 732 Pine, Osage (50461) DOWNING, BERL—Jefferson and Washington 306 E. Briggs, Fairfield (52556) EDWARDS, LEO (Jack)—Hancock and Wright 714 First Avenue S.E., Clarion (50525) EMERSON DEV. Company Anglobor. EMERSON, REX—Cass and Audubon Route 3, Atlantic (50022) GREGORY, JIM—Butler and Franklin Box 236, Geneva (50633) 712 243-5368 515 211 HANDELAND, ORLAN-Linn Central City (52214) 319 438-6319 HARRIS, GLEN-Marion and Warren 302 S. Third, Indianola (50125) 515 CH 7-3360 FF Steen HARVEY, WALT—Grundy and Marshall 6 N. Second, Marshalltown (50158) 515 753-8886 HEIN, CHRISTIE-Mills and Montgomery HEINKEL, GALEN—Des Moines and Henry Danville (52623) 392-3065 HLAVKA, GENE—Jasper and Poweshiek Route 2, Kellogg (50135) 598-8251 HOILIEN, JERRY-Lee N, JERRY—Lee 1821 Avenue F, Fort Madison (52627) 319 DR 2-510 1) hotgunner HOLMES, VERL—Palo Alto and S. ½ Kossuth 103 Call Street, Emmetsburg (50536) 712 852-4969 Box 147, Missouri Valley (51555) HORTON, JOHN—Clayton HUFF, LLOYD-Polk 2604 37th Street, Des Moines (50310) 515 277-9233 Kentucky or spotted bass have ello Fish Hachery as brood stock JENNINGS, ERMIN—Benton and Tama 103 Avenue G, Vinton (52349) 10472-4494 105 Event Stocked in three Iowa streams for future stocking. The hatch JOHNSTON, MELVIN—Lucas and Wayne 105 PR 4-5660 KING, DUANE-Pottawattamie LEMKE, LESTER-Adams and Taylor 515 6F14 Route 2, Bedford (50833) LEMKE, LOUIS-Dallas and Madison LEMKE, LOUIS—Dallas and Madison DeSoto (50069) MACHEAK, WILFRID—Worth and Winnebago Forest City (50436) 515 36R6 515 582-3553 Forest City (50486) MEGGERS, JACK-Cerro Gordo K, BOB—Cedar and Jones 211 13th Street, Box 29, Tipton (52772) 319 886-6725 211 13th Street, Box 25, 119 MOATS, BOB—Emmet and N. ½ Kossuth 712 362-4232 a NICHOLS, DAN—Louisa and Muscatine 819 Cedar, Box 202, Muscatine (52761) OLOFSON, CHARLES (Butch)—Keokuk and Mahaska 202 K Avenue W., Box 381, Oskaloosa (52577) 515 OR 3-670 NICHOLS, DAN-Louisa and Muscatine RAY, MARLOWE-Adair and Guthrie 515 747-3002 509 N. 12th, Guthrie Center (50115) ROEMIG, ALAN-Wapello 515 684-7966 ROEMIG, ALAN—Wapello Route 5, Ottumwa (52501) ROKENBRODT, FLOYD—Humboldt and Pocahontas 402 6th Avenue N., Humboldt (50548) 515 664 RUNYAN, MIKE-Dubuque SHIPLEY, JIM-Fremont and Page 319 MA 8-44 SIMONSON, WENDELL-Johnson and Iowa Oxford (52322) SMITH, CURTIS—Howard and Winneshiek 609 E. Fifth, Cresco (52136) 319 KI 7-268 SPEER, MYRON—Davis and Van Buren Route 3, Bloomfield (52537) 515 664-3074 (Newly assigned—no address yet) STARGELL, HOWARD-Carroll and Greene STARR, FRANK-Buena Vista and Cherokee TELLIER, FRANK—Lyon and Osceola Box 139, Doon (51235) TELLIER, GEORGE (Dick)—Calhoun and Webster Box 410, Fort Dodge (50502) TILLEY, ARCHIE—Ringgold and Union 515 2821 515 573-2508 , ARCHIE—Ringgold and Union 1101 Orchard Drive, Creston (50801) 515 782-5068 UHLENHAKE, MARK-Monroe and Appanoose 203 W. Francis, Centerville (52544) 319 856-6216 WALLACE, JIM—Ida and Sac Box 32, Lake View (51450) WILSON, DUANE—Hardin and Hamilton Alden (50006) WILSON, WARREN—Boone and Story 121 Cedar, Boone (50036) 515 432-5 712 657-3241 %

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YOUR CONSERVATION OFFICERS Bob Rollins, Enforcement Superintendent