

Norme 21

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Number 2

TRACKDOWN ON IOWA WILDLIFE

GROWING IOWA TIMBER John Stokes

Assistant State Forester

question often asked of Contion Commission foresters by and owners is "How fast will mber grow?" This is a queshat is hard to answer with a statement that will apply

Iowa timber types. the coming articles we will ss the different timber types here in Iowa and the growth, et possibilities, and related thom s of Iowa woodlands.

st, we should discuss a few al things that affect timber th. Just as corn yields vary yield to yield and section to n so does timber land from to type and site to site. Site aply the factors such as soil, ents, and moisture that affect ival the rowth of a tree. It should be mbered that timber is a crop! in Iowa we find several timypes each with its particular of seed and growing differ-

e recent Iowa Forest Survey s four basic timber types as

- . Elm-Ash-Cottonwood
- 2. Oak-Hickory
- 3. Bur Oak 1. Northern Hardwoods

ese woodland types make up 6 million acres of Iowa forest For this series, we will not der native or planted everries are hard hardwoods and come to the woodland owner. 30ft maple, elms, cottonwoods

willows are soft hardwoods.



Quail tracks in the snow. Tracking wildlife and being familiar with the tracks left by the many lowa animals can become an absorbing pastime with little or no expense.

stands of pine, spruce, red land. This is as it should be type often called bottomland hardand hardness. The oaks and nuts should provide periodic in- woods.

in management is to get the de- river bottoms and smaller stream th the hardwoods and soft- sired number of good growing beds and on the moist lower slopes. Is are important to Iowa saw- trees spaced on each acre so as to These bottomland areas are some wood processors, veneer get the maximum growth. The ma- of our most productive timberlands and pulp mills. Today Iowa ture and excessively crowded trees in the state. This timber type 1-using industries utilize over should be harvested for sale. This covers more acreage than any Inds of trees growing in Iowa. leaves trees of higher quality to other type in Iowa. Of the 2.6 should be pointed out that the put on growth at a rapid rate.

forest land for the most In this article we shall discuss Iowa, 1.2 million acres or 47 per is growing on the poorer class the elm-ash-cottonwood timber

', and fir but only our hard- with the most productive lands woods. This timber type includes timber types. In classifying being used for food crops and im- species such as cottonwood, green nardwood species we can use proved pastures. Timber products ash, white elm, basswood, willow, Ber iroad classes of hardwood and including veneer logs, lumber logs, soft maple and birch. These speoods based on weight, den- posts, pulpwood, stave bolts, and cies are classed as the soft hard-

Generally the elm-ash-cotton-In any timber type the first step wood type is found along our major million acres of timberland in

(Continued on page 14)

Denny Rehder

Ever been walking along a little stream on a lazy day and find yourself attracted to the tracks crisscrossing along the bank? If you have, you're not alone; tracking and track identification is popular with many people who spend any time in the outdoors. It's easy, inexpensive, and you don't need any particular materials, unless you carry a guide to wildlife tracks.

Iowa has a wonderful variety of wildlife, all of which leave the stories of their day in the mud of streambanks, the soft dirt of fields, or the winter snow. Ranging from tiny shrews and mice to larger beaver, coyote, or deer, these tracks offer a fascinating insight into the habits of those who leave them.

Last week, while in the Yellow River country of northeast Iowa, I saw two sets of tracks I had never before encountered. The first was the bold, unmistakable imprint of the wild turkey, which because of its size separates it from the birdlife in that area. The second was the snowshoe-like track of the ruffed grouse. The grouse has horny growths clustered around its feet that help to support it in light snow and the imprint is a unique fuzzy impression.

I trailed a fox for awhile watching his day unfold. Here was a place where he ambushed a cottontail and ate it hair and all. A little further on, he dug out a mouse, killed it, and buried it in the snow. A fox will trot along all day killing mice and moles it may dig out of the snow. If the fox isn't too hungry, he'll bury them in a drift and never eat them. Another place he tried stalking a ruffed grouse. You can see the faint marks left by the wings as the grouse flew away, probably perching in a tree till the fox left. Finally the tracks wavered along the path as the fox looked for a place to curl up and take a snooze. He found it on the lee side of a snow drift. Other days you might see where a fox has jumped upon a stump to take a survey of the surrounding countryside. A

(Continued on page 10)

lowa Conservationist

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GEORGE H. MEYER. Wilton	Junction
ROBERT E. BEEBE	ioux City

CIRCULATION THIS ISSUE.

COMMISSION MINUTES

Travel was authorized for two people to attend Aquatic Weed Control Society meeting in Chicago, February 13-14.

Travel was authorized for five people to attend the Great Lakes Park Training Institute at Angola, Indiana, February 19-23.

Three people were authorized to attend the State Foresters Meeting in Milwaukee in January.

A report was given on the possibility of future acquisition of lake shore property on Clear Lake.

The Commission met with Mr. Baer of the Board of Control to discuss the construction of a permanent prison camp on the Yellow River Area.

WATERS

The Commission asked for an sports area and picnicking. Attorney General's opinion as to Cedar Rapids.

a letter be sent to Washington, D. area and other development. C., U. S. Coast Guard Public Hearboating laws.

A request was approved for a managing that area. construction permit allowing a Sportsman's Club to clean behind a low head dam on the Turkey River.

COUNTY CONSERVATION BOARDS

Grundy County received approval for the acquisition of one acre for \$200 for use as a school arboretum called the Meester Area.

Wright County received approval for the acquisition of .54 acre to be called the Eldridge Park as a gift located on the southwest side of Lake Cornelia for use as a picnic area.

Wright County received approval for the acquisition of 12 acres by gift of an area called Bingham Park to be used as a school-county forest.

Hancock County received ap- hibitive.

THINGS YOU MAY NOT KNOW

The throat and ears of the beaver are equipped with valves which voluntarily close when the animal dives and open when it comes to the surface.

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

It is not necessary to slit the tongues of birds in order to teach them to talk. Birds produce vocal sounds with the syrinx, a voicebox structure in the throat.

A bird's two eyes often weigh more than its brain. The ostrich's eyes often weigh more than twice the weight of its brain.

The raccoon's Latin name, Lotor, means the "washer." The animal is noted for washing its food.

proval for the acqusition of 20 acres of forest area on the west shore of Eagle Lake at a price of \$3,500 to be used as a schoolcounty forest and outdoor class-

Mills County received approval for development plan for the Emerson Roadside Park located three miles west of Emerson on Highway

Cedar County received approval TRACKDOWNfor a revised development plan for Massillon Park in that county.

Jackson County received approval for a development plan for Horseshoe Pond Area to be used as a service headquarters, a winter

Approval was given for a manthe ownership of certain sand and agement agreement with Black gravel areas on the Cedar River in Hawk County for the Childs Access Area on the Wapsipinicon The Commission instructed that River for use as a fishing access

The Commission refused to transing, informing them of our new fer by deed the Del Rio Access Area to Polk County which now is

PARKS

An option was approved for \$8,000 for the purchase of an access road to Lizard Lake in Pocahontas County.

The Commission met with a delegation from Delhi which requested fill dirt for the school district to be taken from lands adjacent to Silver Lake and approval was given for the project with the stipulation that top soil should be returned to the area.

Three options for land purchase on the Lake Anita area in Cass County were approved for 80 acres for \$8,000, 40 acres for \$5,000 and 80 acres for \$14,000.

FORESTRY

The Commission accepted a gift Wright County received approval of five acres of land adjacent to for the management of Troy Road- the Cedar Creek Unit of the side Park on Highway 60, four and Stephens Forest Area from James one-half miles south of Eagle Brown on the condition that the abstract cost would not be pro-

THE GRASS IS GREENER

James R. Sherman

Recently a letter was written to the Conservation Commission Off by a native of a western state that is justly famous as a vacation and The letter was written to praise Iowa as a vacation state.

This letter should surprise many Iowans who are so complacabout the physical wealth of their state. The letter began, "Never my whole life have I ever enjoyed such a vacation as I have enjoy in the State of Iowa. The sunshine that you have there is so health and penetrating it does a lot of good for me. Our summers are short that we do not get much sunshine!" A surprising though Actually, we in Iowa have a variety of weather that is conducive vigor and enjoyment of living, and we certainly do have much weath that is truly beautiful.

"I have fished all my life for trout. For a change it was different fishing the way you folks do. I really enjoyed it very much." At f glance many Iowans would question this statement, but certain not the fisherman who is familiar with Iowa's more than five thousand miles of catfishing water or the fisherman who has experienced thrills of winter fishing on Spirit Lake and the Mississippi River the fisherman who delights in bluegilling some of Iowa's 23,000 fm ponds to mention only a few.

"The trees, shrubbery, rolling hills and level fields are beauti The farms that I have seen are clean, beautiful and well kept." I Iowan who vacations in the mountains is rightly impressed by beauty of the pines. But for a steady diet, can anything equal ! beauty and variety of Iowa's hardwood forests, our prairie plants a the lush growth that is so typical of our state?

"Your parks are beautiful and as I fish your rivers and lakes I have left Asia met some real sportsmen." Ninety state parks and preserves in In The witch ha make up one of the outstanding park systems in this country and ma with the au Iowans are acquainted with their state parks. Six hundred in the tinginian thousand hunters and fishermen in Iowa enjoy their recreation de 30 feet with at hand.

Outdoor recreation in Iowa does have variety and richness that a round by found in few other states. In this instance, the grass is greener and yellow this side.

(Continued from page 9) fox will sit up on its hind legs just in winter), waterfowl, great between variety like a dog begging for food.

go where you know there are hazelnuts. Here you might find the you can find fox tracks, coy ow to over n track of the white-footed mouse, chipmunks, rabbits, squirrels, me These mice will sometimes gather and shrews. a gallon of hazelnuts into caches in the snow. If you track the mouse don't get fooled. I've heard you may bring home a sack of lows tell of following tracks the to a hazelnuts. Granted this is the lazy knowing if they were deer or but

Pheasants and quail can show you a few tricks too. Have you like" manner. ever seen a pheasant run pell-mell right into a snowdrift? They'll do it and so will quail. People who think that snow cover immediately cuts pheasants and quail from their grasp tree branches when food supply have never watched these birds closely. I've seen pheasants land in a corn field, with many in the snow, because wher had of the birds disappearing from view. In a few moments there would be a flurry of snow and out would pop a pheasant. I've also seen places where pheasants have dug an area 18 inches down in the snow where corn has been spilled and start a collection. If you and during the harvest.

Many times you will be following a mouse track to find it end under the wing marks of a hawk or owl ing to cast in Iowa, but I may that found a winter meal.

Tracking is a year-'round sport, waiting for the day I can In the winter, the snow makes it home a cast of a certain im very easy to pick up small mammal from northeast Iowa-made tracks you would normally miss, bear! but in the summer you have tracks of larger animals that are rarely seen in winter.

Along streambanks and river- ming in the Arctic seas miles banks you will often find tracks of land.

mink, 'coon, muskrat, bear I yellowish squirrel, opossum (though rar in October) herons, sandpipers and killdeer I lakes to It's a lot of fun in the winter to sandbars), turtles, and frogs. In December

In woodlands and open could The Winter

Deer tracks are easily seen, deleges way of gathering nuts, but it's fun. until the tracks showed the and ne bounding off in a very "un-little bright

The 'possum track might con you unless you remember to for the unusual thumb on the lies feet. This thumb helps a 'pos climbing.

The weasel can give you tro hard see bounds the rear feet will o land in the impression made by front feet showing only one of imprints per bound.

Some people make plaster plaster Paris casts of the tracks they one of those inveterate collection (like me!) you might enjoy the

I have one track that I'm many years before I do it.

The polar bear is a pow swimmer and has been seen s

Carol care ses, lilies and fa and beloy er self-t

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ing plan southern soll al is or wi the for all specie our flow Unear pe

ar sepals. itch haz Hibeast state Mers in den mens. The

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WINTER BLOSSOMS AND VAGABOND SEEDS

Carol Buckmann

witch hazel shrub evidently t care for the competition ses, lilies and other summer, and fall beauties. In the and below zero weather, when her self-respecting plants are g, this non-conformist is in loom.

of Iowa's few wild winter ing plants, it occurs mostly southern part of the state in soil along the banks of ms or with black and white in the forest shade.

all species, these tall shrubs four flowers in short clusters Ravit linear petals and small trimini ar sepals. There are five spee of Hamamelidaceae, scientific b witch hazel, in the United as although another variety een unofficially reported in the meast states containing white ors in dense pikes and long ens. The other 95 species are kes m stern Asia.

witch hazel winter show beand I with the autumn variety, Hamdre s virginiania, which grows up feet with broad, oval leaves ining several rounded teeth ess in a round base. The petals are gree ri t yellow or mixed with red ding to three-fourths inch. I'm sepals within the flower are t yellowish brown. It blooms October to November when gree inter variety, Hamamelis vertakes its cue to continue from December to March.

red sepals contrasting to the Africa. light yellow to red petals

comes with the witch hazel's expulsion. Similar to a Fourth out with a bang. When the er show is over, it expels its d, hard seeds like bullets from

s to a plant's advantage to its seeds carried far and wide ek new situations and environs in order to strengthen its in the ecologic economy. Here mending struggle for existence een and the competition for e, light and food is always

water and left along muddy istream shores.

bitterns pick them up when vaders. cing in the mud which cakes on



Witch Hazel Blossoms.

Jack Kirstein Photos

is winter blooming shrub pond and the birds unconsciously As anyone knows who frequently s to over nine feet. Its leaves deposit seeds. Such birds on long visits the out-of-doors, these little irrel I lso oval but have notched or migratory flights carry seeds en- barbs stay where they penetrate ed edges like a saw. The cased in their muddy feet for thou- and are picked off with difficulty led edges end at the middle of sands of miles. Thus African plants from the area where they "plant" held he eaf where the leaf begins to may find themselves in Europe and themselves. Burdock and nightw to a rounded base. The European plants may end up in shade seeds have the same effect

er a bright scene to winter's gathered by squirrels are buried in widely separated caches for future ly celebration, the witch hazel begins to grow in a new locality.

> Squirrels and other nut-storing animals will bury nuts at distances from the source equal to at least the diameter of the tree crown. In this way, the new tree does not interfere with the parent tree growth nor does the parent tree cut light from the younger.

me plants like the riverweeds, fall of seeds enabling the wind to planted by birds. weeds and irises living near carry them a considerable distance. lakeside mud of marshes where nessmen and stenographers are and is taken by the wind.

r feet and legs. The mud is have backwardly placed prongs on crop is deposited in a suitable spot served.

washed off their feet in some other their seeds like little pitchforks. but with hooked prickles on their Hickory nuts, walnuts and acorns fruit which decorate clothing in late summer and fall.

Apples, cherries and a multitude e grand finale of this wintery feasts. These little fellows often of berries dress their seeds in forget or don't use all they hoard, flashy mantles to attract birds and the uneaten nut sprouts and a tree animals to eat the fruit. Ever notice how many trees, shrubs, bushes, vines and herbs growing along old fences and hedgerows have fruit eaten by birds?

The seeds are not injured by digestive juices in animal stomachs and are passed from the animal's body unchanged. After eating the fruits somewhere else, the birds Still other plants have different perch along old fences and telemeans of seed distribution. Thou- phone wires paralleling hedges and sands of seeds rely on wings as a roads and drop the undigested means for dispersal, such as maples seeds. Thus hedgerows of native for growth. In one season, an aster and elms. These wings slow the shrubs, bushes and trees are plant produces 16,000 seeds, a cat-

ims expel their seeds into the Silken parachutes carry dandelion, on birds to scatter their seeds. As seen that if all the seeds a plant er. The seeds are carried by cattail, cottonwood and milkweed the bird snaps a seed in his bill the produces would germinate, one seeds for miles. These invade New highly polished, slippery seed often species would cover the earth's York City every year from the cat- slips out much like a fresh water- available surface. some cases, plants cast seeds tail marshes of New Jersey; busi- melon seed slips from one's fingers

Historically Speaking THE YELLOW RIVER **FOREST**

A Wonderful Wilderness Stan Widney

"Someday the people of Iowa will wake up to the knowledge that there is a wonderful trackless forest within our state!"

This emphatic statement was written in 1919 by a Des Moines Register reporter after a trip to the Yellow River Forest where he foresaw the recreational possibilities of an area now being made ready for that purpose.

"The land is worthless for farming," he continued, "but priceless for scenery. They (the State Board of Conservation) can buy it cheap now in all its native beauty and save it for Iowa people for all time.

"Up to the present (April 10, 1919) it is safe to say that not more than a few hundred Iowa people all told have trod the Yellow River country in the 70 years the prairies round about have been settled. Even the natural scientists who have made brave attempts to follow the wilds of the river from its sources in springs near Postville to its mouth at the Mississippi four miles above McGregor admit



Witch Hazel-19 Feet.

tail stalk 2,000,000 seeds and an Some grasses and hedges depend orchid capsule 3,770,000. It is easily

In all these cases a very small proportion get placed sufficiently ing birds such as the herons amazed by these mysterious in- Most of these plants produce an for successful growth. This wise astronomical number of seeds but provision in nature sees to it that Beggarlice and spanishneedles only one or two of the entire yearly the balance of nature is well

WINTER PLANTINGS TO ATTRACT BIRDS

Carol Buckmann

You may have had experience with artificially created bird attractions like bird baths, feeders, houses and perches but here's a natural method to attract the feathered clan.

Install plantings on your grounds to attract the winged concert givers. This serves the needs of birds with a two-fold purpose. First, there are certain plants favored by birds for perching, nesting, hiding, singing, eating, courting, resting and generally just being a bird. By installing your own plantings, you help serve these purposes.

Second, and possibly the best of all-you get a landscaping job done with the same stroke. Planting trees and shrubs appealing from a bird's-eye-view are also pleasing to the human eye. Take berries, for example: "berried treasures" preferred by the feathered songsters are usually brighthued, ornamental, and attractive to humans. Their needs for shelthe backyard picture.

Winter is a critical period for weed seeds, dried fruits and ber- scarce but partridge pea stays many wildlife species and the win- ries, and to some extent buds and green. Sweet clover and chickweed ter values of planting should be persistent green foliage. They like stand up well against cold in procarefully weighed. At this time, to feed on aspen, birch and alder tected places. Acorns, black locust, available food supplies diminish buds subsisting through the winter. beechnuts, and hazlenuts are availand coverts grow small, devoid of For roosting, trees such as the able as long as they last and some

animals are often crowded into re- ornamental plant around the home If there is a robin, catbird, cedar stricted cover patches feeding on is good for birds throughout the waxwing or a dozen other species scanty, undependable foods. As a winter. The hibush cranberry with in the vicinity, the ripe, red twin result, starvation claims many and its red berries lends itself well for fruits of the bush honeysuckle will weakens them so they become easy food while its thick bush gives be a drawing card. This plant is victims to predators and suscep- good cover. Cedar waxwings are widely adapted to various soil contible to cold, disease and other mis- especially fond of this plant. fortunes not affecting well-nour- Japanese barberry, ornamental foot shrub can be used about the ished individuals.

cases, man can come to the rescue nals and purple finch. in winter feeding.

are of particular importance.

a potential for cover and protec- cover. among trees as a feeder of birds. and bittersweet are good food and tridge pea, black locust, ragweed, to eat the berries. The dense spiky birds. Perhaps the best of the button and wahoo. needles provide good shelter from vines for all-round use, the Virginia Among the weed seeds, ragweed winter weather and safe nesting creeper, holds its blue, grape-like is of great importance to birds but places. This plant makes rapid berries well into the winter pro- the supply of this noxious weed is growth when young and reaches vided they are not consumed earli- often limited. Frequently, the seeds about 50 feet at maturity. White er by the 20-odd birds that eat are buried under the snow or out your windows in the winter gil cedar and arborvitae are popular them. Vivid red fall foliage makes of reach. Grass seeds and giant a number of options as to hall among the bird clan and are free this vine an attractive addition to ragweed used in clumps in suitable woods, conifers, vines, shrubs a line from rust often associated with red the landscape. Plant it along places is good winter cover and trees, grasses, and even weeds cedar.

The chief natural winter foods ably in rich, moist soil.



ter are met by hedges and other This rabbit provided a good target when it ran up the bank. Curt nailed it as the bowhunters took home three rabbits. The wind made careful sighting difficult and shrubbery fitting attractively into the cover was heavy. Rabbit drives are a regular feature of this club's year.

foliage and afford less protection. pin and white oak are favored remain until spring unless con-By midwinter these birds and since they keep their leaves. Any sumed earlier.

crab and hawthorn give both food yard or clumps and hedges can be During excessive cold, sleet, deep and cover. The coralberry, a low- planted in more spacious areas. snows and blizzards, it's especially growing plant, spreads rapidly and The persistent orange-red berhard for birds to find food. In such its red berries are good for cardi- ries of mountain ash provide winter

The two main things to think of is a temperature change such as the white flower clusters and foliwhen planting to attract winter around windows, garages and eaves age, as well as the fruits, make birds are food and cover values. If or areas where they can get out of this small tree a favorite ornabirds are well-fed, cold tempera- the wind. By leaving bird boxes mental. Cool, fertile, moist soils tures are no problem, but they in the winter, the little songsters are preferred for the planting of need shelter from draft or a place have shelter from the wind and a these specimen trees. where they can roost and get out place to roost. A dead stump here Juniper, greenbrier, chokeberry, of the wind. Here is where the and there gives shelter and cover. sumac, Virginia creeper, bayberry, conifers, spruce, juniper and pine Thickets of any type are used by privet, cranberrybush are fruits birds and they use the rapidly that hang on throughout the win-The red cedar as well as being growing weeping willow for dense ter. Other seeds available in the

fences, hedgerows or walls, prefer- food.

ditions. Specimen plants of this 12-

food for evening grosbeaks and Birds seek any place where there other winter birds. The beauty of

winter include coniferous trees, tion from wind, holds a record When considering vines, grape hophornbeam, birch, alder, par-Sixty-eight bird species are known cover for cardinals and other song sunflower, bittersweet, bachelor

for our wild feathered friends are Herbs for birds in the winter are scarce in the winter and frequently ter scarcity.

RABBITS THE HARD WAY Denny Rehder

Ever been rabbit hunting? Sun you have. But let me rephras that-ever been rabbit huntim with a bow? Well, that's a differ ent story now, isn't it?

Not so, however, to a group of archers near Gladbrook in central Iowa. During the winter they regul larly stage rabbit drives for men bers of their local archery chil It's a real show the way some those fellows can hit when the rabbit is on the dead run.

Last week I had an opportunity a rubit sner to join about six of these fellow on a hunt one Sunday afternoon They got three rabbits and would the rab have had four if that one hadned run under a woodshed before any one got a good shot.

It was cold and the wind mad careful sighting on the target di ficult. We started along some brush and worked our way alone . the cars. the creek. Kenny Storjoham scored first as he hit one sitting There was some good natured ill bing from the fellows about h long shot and fast-moving target but about that time we hit the rabbits and the action picked in

Curt Ohrt got his at about I teen yards running away from him The rabbits were all over, but the heavy cover made it difficult hit and a lot of arrows were los

We started for an old sand with a lot of cover hoping to g some easier shooting. Don Sto (Continued on page 13)

covered up or out of reach. For the benefit of birds it is desirable have extensive hedgerows of will have and fruit and seed producing plant the straigh

Birds need thickets to escape the Someone wind and feel safe and secure. Mu 1 the rah tiflora rose is always good in an situation as well as the wild roll the die hips for food.

The gray-stemmed dogwood an aggressive thicket-formin about at shrub. You can also use silky the cate red osier dogwood if you prefe safety These plants usually have whi flowers and blue, white, or red fru clusters becoming ripe in Septer lane are ber. At least 30 species of bir thou feed on dogwood berries while make good specimen or hed plants.

Variety is the watchword to be PRORICALL in mind when planting for f feathered crew. Lay out plantin in varied patterns with an inte mingling of species, sizes a po shapes. Give them a wide varie of places to choose from to condu their business-from crowns of t trees to low, shelter giving vin But most of all, keep the wint birds in mind when planning landscape.

A design to include birds outs create a landscape design and a Dried fruits and berries are meet the challenge of nature's W

BRITS-

sed an (In two the frozer

he its. Ev g to head i and the har

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bbit had s Table onsia

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Were an

of the ar with a hot coffee of the day ander eve L Pandem

BA BITS-

(Continued from page 12)

old n was walking through some ing corn when someone holers for one coming his way. Don mu t coming but when he took ot a cornstalk got in the way. sed an old fluff-fluff, but it in two places and didn't the frozen stalk. Since it was it impossible to hit in the ing corn, it was only natural all the rabbits for miles d headed through that spot. rrying to the sandpit with its ture hills and valleys we saw abbit sneaking along the edge Bice. Everyone took off runto head it onto the open ice. the rabbit found it had no has it struck out across the nen pond and a rain of arrows iscent of Indian days fell and the hardy rabbit, but there no hits. Br'er Rabbit contim I on his way and we headed nie cars.

lking across some open fields got the best shot of the day. obit had slipped out of cover itarted across the field. Don and rolled it at about twenty . Grinning in the face of the able onslaught of "Praise be lah" and "O, Great White He er" he retrieved his prize.

were almost to the cars, of the arrows were in the rs, with everyone ready for hot coffee when the biggest of the day came. Right out under everyone popped a fat Pandemonium broke loose. vi /one was running along trying ck their arrows. Someone fell a e snow and Br'er Rabbit kept ng straight for an old wood-Someone finally got a shot as the rabbit dove under the

ill, he didn't lose the arrow. ie pulled off the point getting t of the side of that shed The rabbit at last sighting was ice; fine catching his breath in res ve safety.

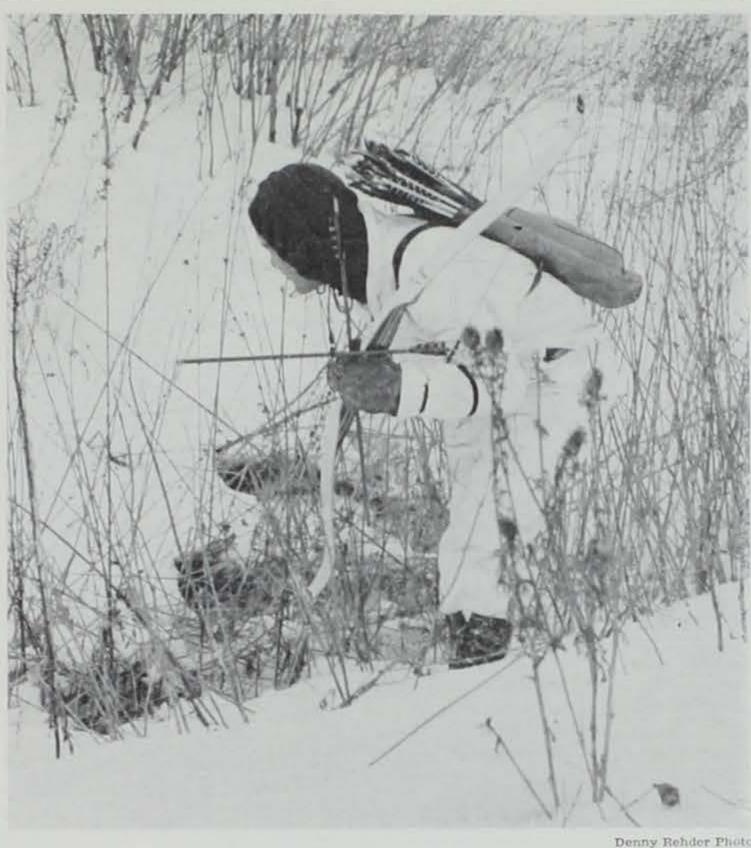
adjourned for coffee and and d over every shot taken as inters are wont to do. It was a show, but you'll want your W harpened and your legs ready you attempt this coldher sport.

'ORICALLY SPEAKING-

(Continued from page 11)

andscape.

only the outer fringes of its wolves kept her awake at night. nile length have ever echoed of a motorboat.



Don looks for some sitting rabbit to kick out. Warm dress and strong legs are needed for this sport. It helps, too, if you have a bunch of old arrows to lose.

is there a place to pass. We'll wa- Indians the art of agriculture. ger though, the second time you "Someday a Longfellow or Washride, you'll walk.

ologists of Iowa who are earnestly lines." advocating the purchase of the

cherry and crabapple trees, hazel ground is lush with wild flowers and ferns.

they have not penetrated a other cliff a great spring breaks new home. of the region and are famil- out and pours in a waterfall to the at rith but a fraction of the na- river. The whole region is vocal with birds and alive with the smallut on your high boots and er animals. A few big ones too, for with us. We'll show you, not the teacher of the one school in the ly a bit of nature's solitudes, wilderness threatened to give up 3 whole river valley so wild her job because the howling of

"At one place there is a beautioot of a locomotive or the piff ful green slope to the river, a natyour neck on trails of rocks, one spot in the nation where true and animals find objectionable.

row that only once in about a mile house was built in 1834 to teach

ington Irving will arise to weave the botanists, geologists and zo- in the wilderness into immortal

Today, in 1962, the Yellow River country of the Yellow River in Al- Forest is much the same as our lamakee County as a state park. 1919 reporter described it, with a "From source to mouth the river few notable exceptions. The State swirls around capes, past rocky Conservation Commission now coves at the base of increasingly owns over 5,000 acres of beautiful high, rugged bluffs, crowned and forest land in the area. Buildings covered with oaks, elms, birches, and camps of a prison labor batalmaples, walnut, butternut and lion are there and the prisoners hickory trees, all tangled with are building new roads, camp sites, grape vines, ivies, wild plum, picnic areas, and other facilities.

Where President (Old Rough and and wild cherry bushes. The Ready) Taylor once brought a setting of turkey eggs to a school teacher friend, the Conservation "There is one bluff covered with Commission has stocked thirty balsam firs, a northern species wild turkeys live-trapped in Texas found nowhere else so far south. in November of 1960. At latest re-From the bare rock faces of an- port they are doing well in their

> The people of Iowa have "awakened to the knowledge that there is a wonderful wilderness in our state" and the State Conservation Commission is well on the road to making the Yellow River Forest Area one of the finest vacation spots in the land.

Some kinds of fish have a ural amphitheater in the hills. Here strongly developed sense of smell here is everything to be found stood the old stone house where to help them find food. If they is jungle land except monkeys. President Zachary Taylor and his like the smell of an object, they go can get through some of the family used often to visit. Another after it. If not, they avoid it. rness with a perfectly safe president, Andrew Jackson, recom- Strangely enough, catfish are Oobbin, providing you want to mended it to his personal friends as pleased by smells that other fish

HAIR, HIDES AND TALLOW

Mann and Thompson

Since prehistoric times, especially in cold and temperate climates, mankind has depended upon hairy mammals for food and for materials to fashion clothing, shelters, weapons, implements and ornaments. Some of our American Indians had not progressed much beyond that when the white man came. They were Stone Age people.

For example, the Dakota or Sioux were nomads who roamed the Great Plains, attempted no agriculture, and depended entirely upon the millions of bison. Their only domestic animal and beast of burden was the dog. Their portable teepee was a conical framework of slender poles covered with hides of the buffalo. Its flesh was their chief food. Surplus meat was dried into "jerky" to be eaten in emergencies, or-pulverized and mixed with tallow, marrow, and berries-to make pemmican.

They used every part of the animal, including its horns, bones. sinews and hoofs. Brains and tallow were used in preparing skins for robes, shirts, moccasins, leggings, pouches, parfleches, etcetera. Raw hides were stretched over the frames of shields, saddles, and the gullies, sidlings and steeps so nar- rest could be achieved. The stone tub-like bullboats for crossing streams. Buffalo droppings or "chips" were the only fuel on these treeless plains.

The pioneer exporers, hunters "It's a naturalist's paradise, say the romance of this ancient abode and settlers in Kentucky, Ohio, Indiana and Illinois found a country teaming with buffalo, elk, bear, deer and the smaller furbearers, as well as wild turkeys and other game birds. Men like Daniel Boone, Abraham Hanks, and George Rogers Clark adopted the Indian's dress and many of his skills. The early settlers copied

> A pioneer wore moccasins of deer or buffalo skin, thigh-length buckskin leggings, a long fringed buckskin shirt, and a broad leather belt which held his powder horn, bullet bag, skinning knife and tomahawk. Only the coonskin cap was his own design. Not until the early part of the 19th century was leather generally discarded for textile clothing.

> The settler used game and, later, domestic animals, for many purposes other than food and clothing. Frequently, in building a cabin, rawhide thongs were used to secure the rafters and tie down the ends of the clapboards or "shakes" on the roof. The door might be hung on rawhide hinges. On his bed, stretched thongs supported a bearskin mattress or a straw tick, and bearskins or buffalo hides, with the hair on, covered him.

> Tallow from buffalo and deer was used to convert deer hides into buckskin. Bits of it were scrupulously saved for use in "grease lamps"-a gourd or scraped out turnip.

IOWA TIMBER—

(Continued from page 9) cent of the state forest area is classed as elm-ash-cottonwood timberland. Dividing Iowa in three

sections, as shown in the map, the southeastern section has 396,000 acres. The northeastern and western sections have 248,000 and 186,000 acres respectively of this

They contain approximately 2,838 million board feet of saw timber or 56 per cent of the total footage of saw timber in Iowa. In the bottomland timber type, elm makes up 30 per cent of the total; while cottonwood and soft maple make up 21 and 16 per cent respectively. The American or white elm is about three times as abundant as the slippery or red elm. According to recently published bulletins, American elm is the most with it. Cottonwood frequently has important bottomland tree in 40 feet of merchantable log length Iowa in terms of existing volumes, while ash has 30 feet, soft maple In today's markets both soft 24 feet and elm 17 feet. Under maple and cottonwood are in management, bottomland stands greater demand than elm. The red elms have more market demand than the white elms. In the This is done by growing the proper complex bottomland forests, elm number of trees on an area, conoften seeds in cutover areas in association with ash. When cottonwood and soft maple are cut, elm usually succeeds these species, made, Other important bottomland trees which make up approximately 20 per cent of the sawtimber volume are basswood 6 per cent, hickory 5 per cent, willow 5 per cent, and black walnut 4 per cent.

Fortunately, this timber type has a majority of the stands stocked with sawtimber size trees and good existing acreages of pole size

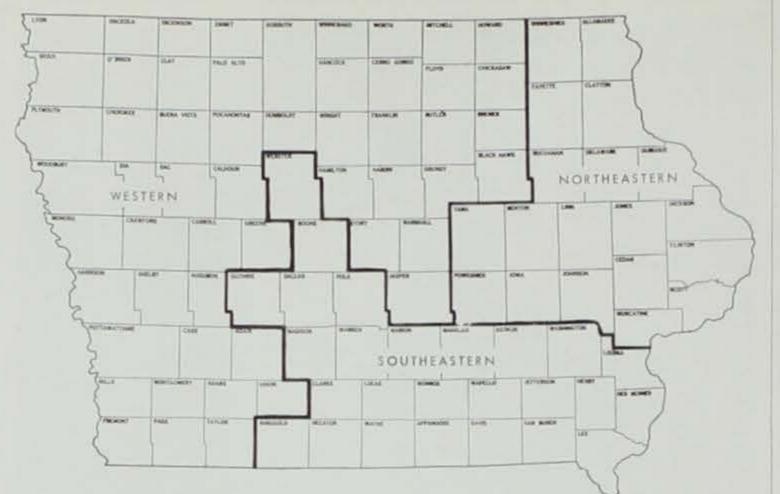
and sapling size trees.

Vigorous bottomland stands on good sites may grow more than 11/2 cords per acre per year, or 700 bd. ft. per acre per year. Many acres of Iowa bottomland timber approach or exceed this growth rate. Several factors make such excellent growth rates possible. The better the site or growing area is in productivity the faster the are used for veneer and lumber. trees will add volume growth.

The average volume per acre for species. timber type is 2,300 bd. ft.; however the best sites may support as in the veneer industry. One other high as 4 times this average.

species, cottonwood reaches its most valuable species. It will be maximum annual growth at about 35 years of age in unmanaged stands. Soft maple and elm reach district foresters located at Adel, their maximum annual growth at Anamosa, Chariton, Fairfield, Denispectively.

ably more volume per tree due to sistance.



having far greater usable log length than other species growing can be made to provide maximum growth at the earliest possible age. sidering the site conditions. Growth is put on good quality trees left after the initial cut is

ready markets except possibly and rabbits. hickory. Elm is used principally for veneer in boxes, crates and food crisis for all warm-blooded baskets. It also finds uses in furniture, vehicle parts and car block- birds, especially the insect eaters, ing. Iowa's pulpmills find elm to avoid cold by migrating to warm be an excellent tree for pulpwood. climates until spring. Likewise, Red elm is valued for veneer and is used on the farm for construction where a tough, hard wood is required.

Cottonwood is the principal wood used for crating and blocking supplied to Iowa industries. It also is most important as a pulpwood species.

Soft maple has had an increasing demand in recent years. Logs It is also important as a pulpwood

Basswood is in demand for use important bottomland species is Of the three major bottomland black walnut, which is Iowa's covered in another article.

Your Conservation Commission about 55 years and 70 years, re- son and McGregor, will assist land owners with timber management Cottonwood will yield consider- programs and offer marketing as-

WILDLIFE'S WINTER DIET

David H. Thompson

Anyone who regularly feeds wild birds, and counts up the amount of food that they eat in the course of a winter, often wonders how they could get along without his help. In one day of freezing weather two or three dozen small birds commonly clean up a half pound of food—suet, sunflower seed, cracked corn or small grain. This does not All bottomland species have take into account raids by squirrels

Winter in this region is a time of wildlife. Most of our summer song most waterfowl and shorebirds go south during the months when our waters are locked in ice.

A few native mammals such as woodchucks and ground squirrels are true hibernators. They prepare for winter by putting on extra fat which they can draw on slowly during the cold months. In autumn they hide away underground beyond the danger of freezing and "sleep" until spring. Among these winter sleepers body temperatures often drop to 40 degrees Fahrenheit and their life processes are slowed to a crawl. In dormant woodchucks, for example, the heartbeat can drop from 80 per minute to four, and breathing from 25 per minute to once in five minutes.

The raccoon, opossum and skunk commonly hole up and stay quiet for a few days or even weeks during extremely cold weather. Then they live on their fat reserves but do not become cold-blooded. On

(Continued on page 15)

Forest Type	North	eastern	South	neastern	V	estern		Total
	Thousand acres	Percent	Thousand acres	Percent	Thousand acres	Percent	Thousand acres	Percent
ak-Hickory	. 364	43.0	567	50.3	105	16.9	1,036	39.0
Northern Hardwoods.		7.8	5	.5	7	1.1	78	3.0
Elm-Ash-Cottonwood.	346	40.9	503	44.6	370	59.5	1,219	47.0
Aspen-Birch	15	1.8		row(e)	5	.8	20	
Bur Oak		4.3	37	3.3	129	20.7	202	.8 7.8
Hardwood-Red Cedar.	. 19	2.2	15	1.3	6	1.0	40	1.5
Total	. 846	100.0	1,127	100.0	622	100.0	2,595	100.00

Commercial forest area by forest type and geographic region, Iowa, 1954

INDIAN MISSION AT YELLOW RIVER FORES

Denny Rehder

An Indian mission to teach Winnebagos the art of agricultu was built in the Yellow River and in 1834. At this time most of All makee County was located in neutral strip established as a bu fer zone between the Sioux on the north and the Sac and Fox on It south. When the Winnebagos were moved from Wisconsin into the area, the soldiers from Fort Cra ford in Prairie du Chien built !! stone mission.

Zachary Taylor was the com mander at Fort Crawford and Ju ferson Davis was his lieutenam A sawmill was built downstream to provide lumber for the building

Fort Atkinson was later but further west to protect the Winne bagos from the warring tribe around them. In 1835 the school was opened by Rev. David Lown the teacher, and a Colonel Thomas as farmer. The school was located strolled fire on the banks of the Yellow River overlooking a beautiful valle When Indian Agent Joseph Street visited the school on April 30, 1831 he found only six pupils, but mon and more were being attracted.

Governor Henry Dodge visite the school in February of 1837 and was delighted with its progress Wwever, a In December of that year then I for the were 41 students.

1839 was the peak year for the life are b mission with 79 pupils enrolled to Galed at boys and 36 girls. But it was diff. ex Unit o cult to keep the Indians from est is the ing the seed and killing the woll The

Whiskey dealers preyed on the chibition Indians from just outside the juris the over-all diction of the military officer and est manage sub-agent. In 1841, 39 Indian livestry died in drunken brawls, the lique to furnished them by the unscrupt which lous traders.

Finally in 1840 the mission of the There Yellow River was abandoned an Meralso, moved to Fort Atkinson on the larg post Turkey River. Reverend Lowre! Seneral y and Colonel Thomas moved then takes at to carry on their work.

The mission house was the Capacity traded back and forth betwee thing an different families who used it a still the lo a residence. It claimed seven add first in the history of Allamake The The County. It was the first recorde land is permanent white settlement in the son labor county; it is believed the fire Paint Co white child in the county was bor ance to woo there; and the first election in the Workers her county was held there.

President Zachary Taylor his family used to visit the million at sion in the summer and Andre I Jackson recommended the area | and freel his friends.

The mission house is long goi with only the foundation to sho her state for its location. The land is now be part of the Yellow River Sta Vi-Forest, an area under develo ment by the State Conservation Commission. Only memories al e old records are left to those w delight in such things.

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F OUR FORESTS

Denny Rehder

Lentory is being taken on all attended forest areas to deter the later owned forest areas to deter the later owned forest areas to deter the later owned forest areas at the later owned forest areas to deter the later owned forest areas to deter owned forest areas at the later owned forest ar

particular interest is the being done at the Yellow State Forest in Allamakee of Conty. Here we find forestry pertor oncentrated on salvaging the the usa e material in the poorer timthe usa e material in the poorer tim-

te of growth is just balancing te of deterioration. Since the has come under the state's ol fairly recently, the formust cull the timber to it to a higher level of quality. of this timber has suffered grazing, over-cutting, and unolled fire due to poor manage-practice in the past.

another such salvage operaanother such salvage operaan be implemented so that ality of the remaining timber all e such that private concerns will e willing to come in and purtimber on the stump.

wever, as part of the future for the multiple use of this , den trees essential for some fe are being left untouched.

If ated at the 3,000-acre Paint Unit of the Yellow River t is the only state-owned ill. The purpose of this saw-s not solely for demonstration exhibition. It is an example e over-all attention to sound management as applied by orestry section.

mill turns out a variety of the turns out a variety of turns out a variety of the turns out a variety of turns out a variety out a

There is a great deal of missing er also used for picnic tables, no posts, bridge planking, eneral repair.

takes about 15 men for the tion at Yellow River to roll pacity. Two men felling, one ning, and all the men needed id the logs to the mill and run nill, add up to a sizeable work

The extensiveness of the tion is made possible by the store in labor camp now located at Paint Creek Unit. Given a set to work out-of-doors, these type presented in all phases of the ners help in all phases of the ner

hough there is some logging with the inventory cruises at state forest areas, none is so sive as that at the Yellow Forest.

e moose track is nearest to



ted at the 3,000-acre Paint River country. Basswood is used principally for veneer; this one will be taken to Unit of the Yellow River the state-owned sawmill in the valley. The chain saw makes short work of cutting.

WILDLIFE DIET-

(Continued from page 14)

warmer nights they come out and forage actively even in midwinter. The raccoon feeds on waste corn in farmers' fields, acorns and wild fruits, or searches the shallows of unfrozen streams for crayfish. In addition to scavenging for any kind of animal matter, the oppossum eats wild fruit. The skunk hunts meadow mice, ground-roosting birds and digs among grass and fallen leaves for hibernating insects.

Some animals hoard food for winter use. In autumn, chipmunks and deer mice gather large quantities of nuts, wild cherry, basswood, dogwood and other seeds which they store in their burrows. The fox squirrel and gray squirrel bury nuts and acorns in the ground near their den trees. In winter these are dug up and eaten, even through inches of snow.

Before freezing weather sets in, the beaver gnaws down cotton-wood, aspen and willow trees, then cuts the branches into convenient lengths and sinks them underwater for winter use. The muskrat feeds under the ice on the roots and stems of cattails and other aquatic plants but it also piles up special mounds of plants in early autumn which are eaten in winter.

The meat-eaters—hawks, owls, foxes, weasels and mink—catch a few birds but their mainstay is meadow mice and an occasional cottontail rabbit.

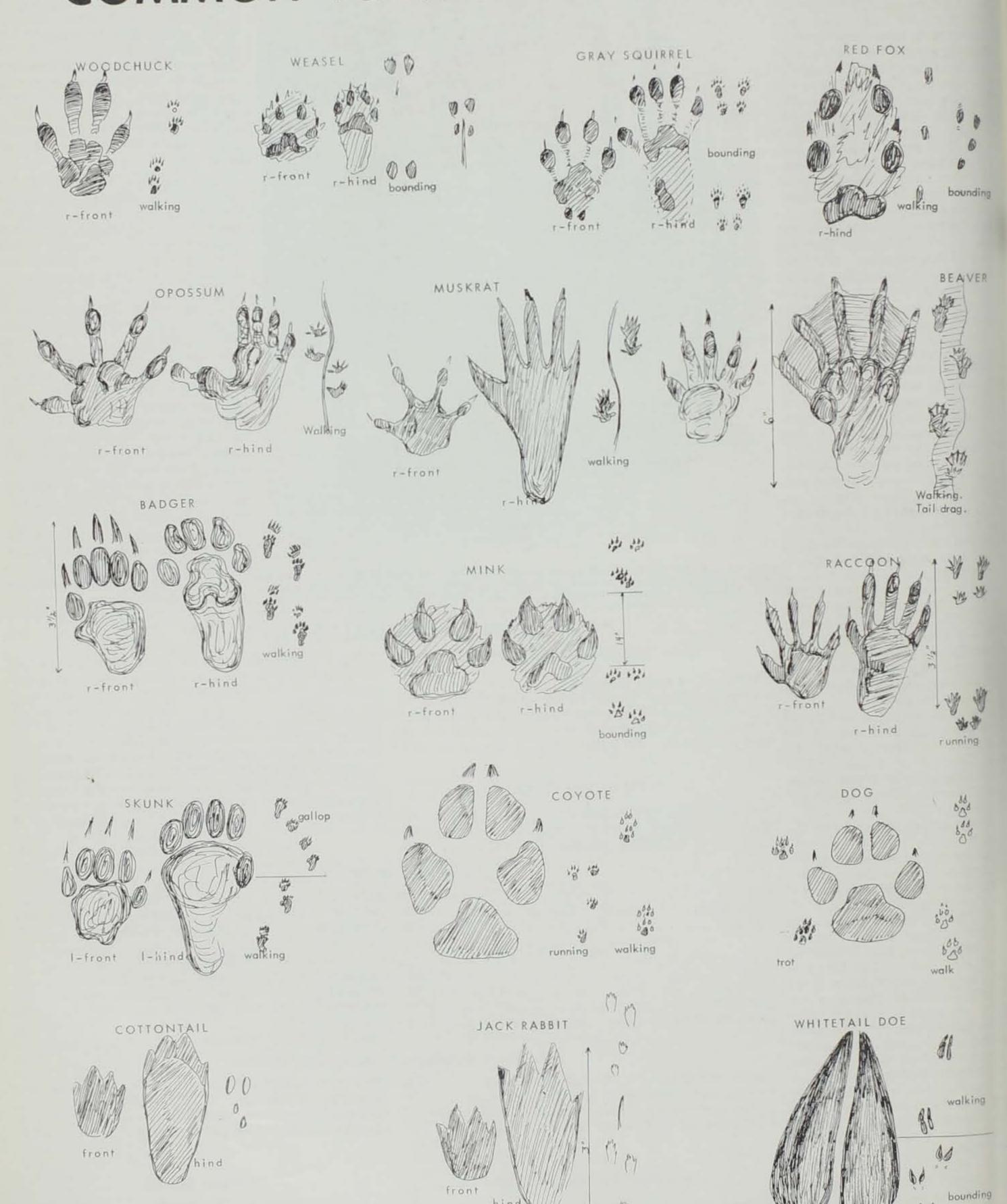
1961 HUNTER CASUALTIES IN IOWA

1.1					
e	Intentional Firing	Trigger caught on brush			
d	Victim out of sight of shooten	Weapon fell from insecure	TO THE RESIDENCE OF THE PARTY O		
y	Victim out of sight of shooter	Horseplay or practicing fa			
	Victim caught by shooter swinging on game 9	Dropped gun			
f	Ricocheting bullets or stray bullets 6	Defective weapon exploding			
r	Victim moved into line of fire 4	Riding in vehicle with load			
e	Victim mistaken for game 1	Crossing fence or other of			
f		Removing loaded gun from			
s,	Unintentional Firing	Other or unclassified			
5,		Removing loaded weapon from vehicle 1			
	Gun discharged while handling	Unkown			
e	Shooter stumbled and fell				
11	Loading or unloading weapon	Tot	tal136		
e	Casualties	by Month			
n	January 6	July 6	October		
k	February 9 May 4	August 2	November		
	March 2 June 5	September12	December		
e					
	Des Western Hand	By Game Hunted			
ıt	By Weapon Used	By Game	Hunted		
at a	Rifle	Rabbits	Target		
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e	Rifle	Rabbits	Target30		
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se s	Rifle	Rabbits	Target .30 None .18 Fox .6 Trapping .3 from vehicle 1 dling .1 ng weapon .1 al .11 Hunted .2		

Cabuckmann

COMMON IOWA WILDLIFE TRACKS

lume 21



speeding