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October, 1961

Number 10

HUNTING OUTLOOK FOR 1961

HARVESTING IOWA'S WILD FOODS

harles (Butch) Olofson Conservation Officer

indicates s to come.

hibernation.

little old reather food for them.

may have learned to pre- tances without spoilage. feed for the productless months in add the ter by watching the animals w will never know. We do know all iid practice the harvest of nated foods to survive during or 11 the cold periods of want and starheasistate. He had to know what anitheir and ie could depend on during the igs. I win . At the same time, man al that d he could not live on meat sant He had to supplement his offer lies ith grains, dried roots, fruit ther plant life.

again man had to learn what rvest and how to preserve

Hickory Nuts

food so it would be edible during the long periods of storage.

supple e the beginning of time, man A good example of this was the must and imals began early in autumn Indians use of "Pemmican", made nillim n and speed their activities by drying thin strips of deer or ation" | E paration for the cold winter buffalo meat into "jerky" (a method of preserving meat). After the ther | E example, the bears who have meat is made into jerky it is pul-Count leeding all summer long on verized by pounding. Then bear or Des bill odents, grubs and insects now buffalo tallow is melted and poured and to feed on the wild blueber- over this meat. Blueberries, blackeffers and blackberries. He must berries or any berries of their th. - will up that layer of fat which choice were added. This was mixed get him through the long together and put into skin bags made from buffalo stomachs or sirrels, muskrats and beaver thin deer skin. These bags became BUG an hurried collections of seeds, hard and could be stored all winter anisont coots and bark for their win- and even into the warm summer igh follows od caches since Mother Na- months. This provided a very nuinsections loes not furnish any natural tritional diet during the winter months easily transported long dis-

As the white man progressed west, he had to adapt himself to this climate, conditions of the forest, the plains and the mountain areas. He was quick to see the American Indian was good at this, and the first pioneers patterned their life after them. They learned from the Indians that many of the wild plants were used for food; and many are used today.

Here are some examples of wild edible plants:

Wild onion, wild leek, dandelion and water cress: Used for flavoring, seasoning or as greens.

Common milkweed: Young shoots used and cooked like asparagas or soups. Indians made a crude sugar from the flowers.

Chicory: Young roots and leaves are cooked or used raw for salad and greens. The root can be dried, ground and used as coffee substitute.

Stinging nettle: (Wear gloves while gathering them). Boil to remove the sting and cook like spinach.

still partly covered by sheaths from upper leaves are eaten raw, stewed, steamed, roasted or put and cooked raw like asparagas.

(Continued on page 171)



Birds like this Mallard drake and Blue Goose will be the targets of lowa hunters when the duck and goose season gets underway this fall.

E. T. Rose

Chief, Fish and Game

Hunting prospects are good in Iowa for upland game in 1961. Quail, pheasant and squirrel populations are up, deer have increased at least 8% over 1960, and the rabbit population is average.

A quick look at the general picture follows:

PHEASANT: The prospects for pheasant hunting this season are very favorable. Good populations central portions of the state.

The nesting season this year was years in most areas. Many late this year.

(nearly three million acres of near- these areas. ly ideal pheasant nesting habitat) tion.

The November 11 opening date which has been accepted for many previous years as about the best date was again selected since it is late enough to give farmers time to harvest their corn. It also gives time for young cocks to mature sufficiently to be distinguished from

DEER: The deer population is the highest in Iowa since 1947 with a 25% increase over the past five years average and 8% over last year. The population is anticipated are present in the pheasant range to be 23,000 deer this fall; the with the highest levels in the winter population was 14,155. north west, north central and west Twinning is very common this year for Iowa deer.

DUCKS: The local duck populatwo weeks later than preceding tion is good due to plentiful rainfall enabling water levels in Iowa broods were observed by conserva- marshes, sloughs and potholes to tion officers and biologists in hold up well. Unfortunately, the August brood counts. Highway big duck factories in the Dakotas, right-of-ways, pastures and other Northern Minnesota and much of permanent cover was very heavy Canada suffered from extreme drought conditions gravely affect-Favorable nesting weather, the ing the major production. Conse-Cattail: Flowering ends while new A.S.C. diverted acres program quently, the production is poor in

The hunting outlook appears and the delayed mowing of high- good for locally produced ducks. into soup. Young shoots are peeled way right-of-ways, all contributed It's difficult to tell at this time toward the good pheasant produc- what shooting can be had from the

(Continued on page 176)

Iowa Conservationist

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CIRCULATION THIS ISSUE.

COMMISSION MINUTES

General

Travel authority was granted Joe Brill, Prison Labor Supervisor, to attend the 91st Annual Congress of Corrections at Columbus, Ohio, September 24 through 29.

Glen Powers, Director; Robert Buckley, Engineer in Charge of Waters; Wm. Rush, Coordinator of County Conservation, were given travel authority to represent the State of Iowa at the National Boating Administrator's meeting in San Francisco, October 28 through November 1.

County Conservation Boards

Butler County received permission to purchase from the town of Greene, a park area one block long, one-half block wide bordering the Shell Rock River downstream from the dam and bridge at Greene.

Fayette County: Approval was granted for the acquisition of 8.19 acres as an addition to Twin Bridges Park on the Volga River in the center of the county.

Cherokee County: Approval for general development plans of Larson Pit Area, 111/2 acre park with 9-acre pond, northeast of Aurelia.

Jones County: Approval for general development plan for the development of Pictured Rocks Area.

Story County: Approval for development plan for Caviness Roadside Park.

These projects are county conservation projects financed with county funds.

The Commission approved a 25year agreement for maintenance and management of Pictured Rocks Area, a fishing access area with 60 acres for park purposes.

Approval was given for the acquisition by Clay County Conservation Board of Oneota Park; 8 acres donated to them by the Clay County Garden Club. Park with log cabin.

of which 77 acres are now owned. impossible to catch.

Clayton County received approval to acquire 141/2 acres by 25year license from the U.S. Corps of Engineers to be called Willie Landing bordering the Mississippi.

Greene County was given approval to accept, as a gift, 80 acres from Miss Burdena Drulias to be known as Allen Forest Area.

Keokuk County: 1.31 acres adjacent to Manhattan Bridge on the bank of the Skunk River were approved by agreement with the Board of Supervisors for a fishing and boating access.

Sioux County was given approval for a roadside park on an 11 acre area at the junction of Highway 10 and 33, 1 mile north of Alton.

Dubuque County: Permission was granted for acquisition, by 25year license, from the Corps of Engineers, of a 14-acre area, Massey Landing above lock and dam 12 of the Mississippi.

Franklin County was given approval to accept, as a gift, a 6acre park area from Richard Galvin of Sheffield. The area to be called Galvin Community Park.

Story County received approval to establish a roadside park on Highway 30, 31/2 miles east of Nevada, to be known as the Caviness Roadside Park.

Fish and Game

Approval of an option to purchase 28 acres of land to be included as part of Elk Creek Marsh Development in Worth County.

Approval of an option to purchase 41 acres of marshy land adjoining Sweet Marsh Area in Bremer County for wildlife cover and fencing purposes.

Approval to carry out proceedings with Federal Aid appraisals of land for the proposed small lake construction near Diagonal in Ringgold County.

Approval of a request for completing engineering studies for a proposed new small lake in Monroe County. Preliminary topography data showed an excessive ratio of watershed to impoundment area.

Parks

Louis Neuhring is being transferred from District Unit 2, Parks, to Administrative Assistant of Parks in the Central Office in Des Moines.

Joe Brill is being transferred from Supervisor of Prison Labor to Supervisor of District 2.

Next Commission meeting will be October 4 at Lansing.

The horns of the male buffalo appear within two months after birth as twin bumps on the fore-

Badgers, like some other wild animals, sometimes kill more than Linn County was given approval they can eat at once. They bury to purchase 100.54 acres as part of the surplus food and return to it Wickiup Hill Conservation Area later when other food is scarce or

THE IOWA CO-OPERATIVE HUNTER SAFETY PROGRAM

Paul Leaverton

Supt. Land Management

Realizing that Hunter Safety could play an important part in making hunting recreation much more safe and enjoyable, the Iowa Conserv tion Commission adopted a Co-operative Hunter Safety training m gram in November 1960, in co-operation with the National Rifle 1 sociation of America, volunteer organizations, and public spirite individuals in the State.

The purpose was to make Hunter Safety training available to anyon ten years of age or over.

To accomplish this without adding any additional personnel the program was integrated into the present Conservation Commission organization.

The Superintendent of the Land Management Section was designal to act as Hunter Safety co-ordinator for the state to head up to program in addition to his regular duties.

An Executive Committee was formed from members of sixten state and national organizations, including the Conservation Commi sion and the National Rifle Association of America, to help formula the policies for carrying out the Hunter Safety program in the state

The Conservation Officers have always conducted Hunter Saletraining as part of their public relations program. Also, many Na Rifle Clubs and Sportsman Clubs were holding regular Hunter Sale classes, but the progress was slow, the training was limited, and records were kept,

In order to make the training available to everyone, it was necessal to enlist volunteers and the support and co-operation of many organize tions. To do this, the Conservation Officer was made the key man his territory for the responsibility of a Hunter Safety training program in his respective territory.

The Conservation Officers were called in for a two day training course, conducted by representatives from the National Rifle Association of America. Each Conservation Officer was now qualified to trail volunteer instructors for Hunter Safety training.

After their initial training, they went back to their respective territories and with the aid of NRA Hunter Safety films and posters presented the program to service clubs and other groups emphasizant and lative A the need for Hunter Safety training and telling how anyone coll e played a obtain this training.

Many local and state newspapers responded to this appeal, and the testhan the public response has been gratifying.

The program was under way by November 1, 1960 and with the had are not help of many organized NRA Rifle Clubs, it got off to a running star les but only even though it was during the off-hunting season.

By June 1, 1961, active training classes were started in thirty-of the land the land of the land the l counties; 33 volunteer instructors had been trained and certified, all ers of humi-2,140 students had graduated from the Hunter Safety training course the man

The public response to the need of gun safety training has her tak wall wonderful. Service clubs, sportsman clubs, schools, scouts, farm of Place the ganizations, and many others have co-operated in furnishing places to the meet and transportation.

Each student upon graduation from the Hunter Safety training I found course is presented with an NRA Hunter Safety billfold-size card and Wing abund a certificate of graduation from the Conservation Commission.

We are pleased to see that many schools are including Hunter and wood f Safety training as part of their school program. Most of these will be to log in Junior High as an extra curriculum.

It is planned to send a quarterly report of the instructor's activitie in interior to each instructor and the Executive Committee of the Iowa Hunter furnit Safety Program.

We feel that after this program is under way, it will improve publi relations, relieve the Conservation Officers of some of their difficulties in law enforcement, as well as reduce the possibilities of hunter casualties.

The public appears to be pleased with this much needed safety pro gram which is an indication that it will continue to play an important part in the Conservation program in Iowa.

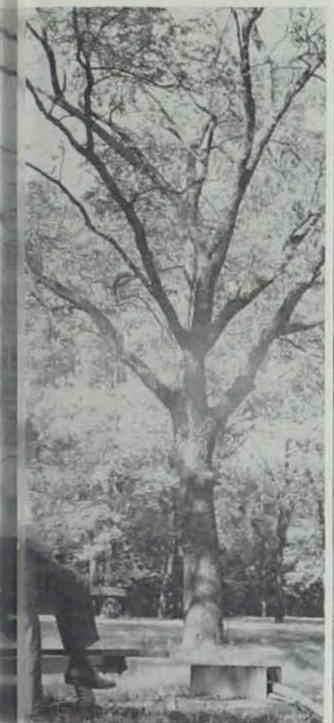
At the time the white man set Slave Lake in Northwest Canada foot on the eastern shores of what He was also found in smaller num is now the United States, the buf- bers in central Georgia and north falo, perhaps more than 60 million ern Florida. head, roamed over the country.

The original range of the buffalo ious of all the wild cattle. was from western Pennsylvania to and bulls graze together through southern Idaho, from the Pecos out the year. Bands vary in size River to the Blue Mountains of from small groups of six and eight Oregon and on north to Great to herds of a hundred or more

The buffalo is the most gregat

cofessor Ge School

lawa Sta



Jack Kirstein Photo Black Walnut

N TIVE IOWA TREES -THE BLACK WALNUT

essor George B. Hartman

School of Forestry Iowa State University

native American hardwoods layed a greater part in the pment of central United than the black walnut (Jugigia Linn.) Six species of SERVATIONIST. are native to the United of lumber. Both of these tree, the butternut.

wood from this tree was fleshy, yellowish-green husk. ise for log cabin construction, mae from black walnut lumber. bark. k walnut is a large straight

parts of slopes. 13 to 23 leaflets each 21/2 to number one forest tree.

Harvesting Wild Foods-

(Continued from page 169)

The pollen is used for flour in pancake batter.

May apple: Good raw for preserves or jelly only when the apple is fully ripe.

Ground cherry: Eat raw or cook with lemon.

Service berry or Sad bush: Use like blueberries.

Mulberry and Choke Cherry: Use raw or cooked.

Wild blackberry: Use raw or cooked into jam and jelly. It is also used in wines.

Nannyberry: Use this berry raw. Hawthorne: Use raw. The juiciest haws make good jelly.

Pawpaw: Use raw, it's best when frost bitten.

Beechnut, hazelnut, chestnut, butternut, walnut, hickory nut: These nuts are used in various ways; raw, boiled and roasted, while some are dried and crushed to make meal for bread, cakes or mush.

Staghorn sumac: When the red berries are crushed and mixed with water, the sumac makes a lemonade substitute.

New Jersey tea, oswego tea, black birch, spearmint, wild straw-

CORRECTION

The coot limit this season is a bag of six and a possession limit of six. The Jack Snipe season will run from October 15 to November 13, both dates inclusive. These points were incorrectly stated in some issues of last month's CON-

but only two of them, the 3 inches long. Leaflets are yellowwalnut and the butternut ish green, tapered at the end and much importance as pro- have edges which are toothed.

The fruit is familiar to most are native to Iowa. Of the Iowans for there are few who have lack walnut far outshines its not spent time during childhood hunting walnuts. It is a large, In the settlers moved west- rounded, brownish-to-black nut wall n the early and middle 1800's with a thick, hard, finely ridged her found black walnut trees shell containing an oily kernel ig abundantly. Because of its which is rich and edible. The nut th, durability, and beautiful itself is encased in a solid, semi-

The bark is dark brown to grayframig timbers for homes and ish black, divided by rather deep interior finish for homes, furrows into thin ridges which and or furniture. Much antique are so shaped as to give a dia-Turn ire on the market today is mon-shaped pattern to the trunk

Iowa black walnut is in high tree with an open crown demand because of its exceptionalwho found growing mixed with ly high quality. It is generally other trees in the woodlands of agreed that the corn belt of the When grown outside the central states produces the highfore or in openings it has a short est quality walnut in the country. branches low and has a Both veneer and lumber manuwide preading crown. Height var- facturers have scouting crews and m 40 to 75 feet. It prefers buyers scouring the state for waldeer rich, moist but well-drained nut trees. The heartwood of the ence is found growing along black walnut is a chocolate brown alands, in coves and on the in color while the sapwood is a creamy white. It is used extentree has large compound sively for gunstocks, furniture, that is, there are leaflets face veneer, cabinet work and arm ig at right angles to the finish lumber. From the standmar leaf stem. The leaves are point of monetary value, black 1701 12 to 24 inches long and have walnut probably is the state's

stitute for tea. Some of these trained. plants are used as medicinal teas.

seed is roasted and ground, it's they cause vertigo and coma. used as a coffee substitute.

that are edible; such as many types death. of mushrooms, eaten by early man. Again a word of caution, there are develop hydrocyanic acid.

ness caused by accidental eating hemlock. of the wrong plants, especially among children.

in fields and vacant lots so they autumn.

berry, sassafras; Used as a sub- are readily available to the un-

Horse chestnut or buckeye: Chil-Kentucky coffee tree: When the dren should never bite into them,

Castor bean: Seeds are poison-There are many other plants ous and have been known to cause

Cherry-plum and peach leaves: If a person knows the mushrooms No one should attempt to make tea in his area, he may eat them out of the leaves of these trees. eight months during the year. As soon as the leaves wilt they

some deadly poisonous mushrooms Another that should be avoided that can be confused with the ed- is any plant belonging to the wild carrot family. They have dissected A person must remember when lacy leaves and small white or yelgathering plants or mushrooms for low flowers in umbrella-like clusfood, he must have a workable ters. A good example of this famknowledge of them so as not to ily is Queen Anne's lace. Two cause harm to himself. Every members of this family are deadly year there are some deaths or sick- poison-poison hemlock and water

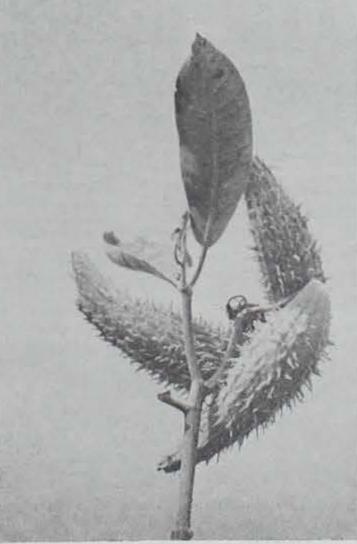
It may seem that the fall food harvest is not much fun due to all A good example of this is the the words of caution. You can still Jimson weed. The whole plant is go out and find pumpkin, waterpoisonous. Attracted to the pretty melons, butternuts, walnuts and flowers and the spiny thorn apple hickory nuts. Above all just be seed, children often suck on the sure and use any excuse for getting trumpet shaped flower or the seeds. out in our fall timbers and river Jimson weed is found all over Iowa bottoms to enjoy Iowa's wonderful



Hazelnut



Black Walnut



Milkweed



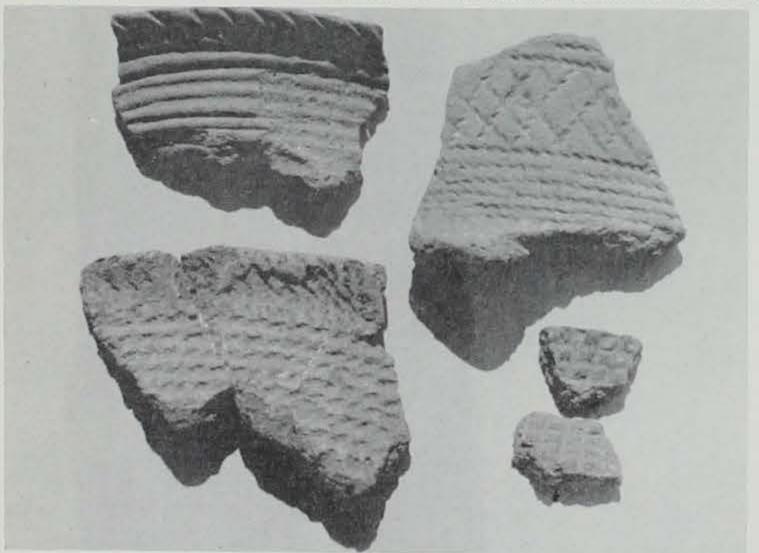
Elderberry



Notice the different levels as the archaeologists carefully work their way across the campsite before they begin to study certain sections. This is a site that was located near Fort Dodge.



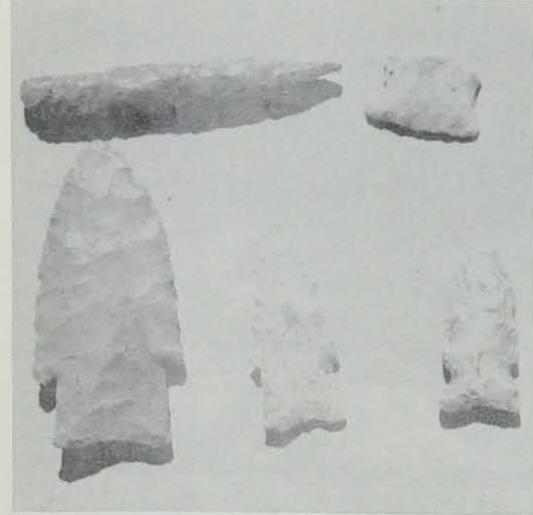
Here the work is more advanced as they carefully work at diffusels sifting and labelling all the material they find in this area.



Some of the ancient pottery that was found. The Humboldt site mentioned in the story contained no pottery.



The soft brush is used to brush away debris without scraping or breaking the facts as might be the case if a shovel or trowel were used.

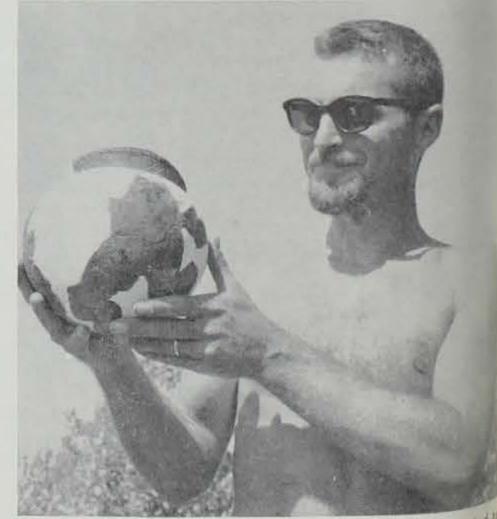


Some of the artifacts found were: Top row, awl and scraper; bottom row, spear-head, and two arrowheads.

PHOTO FEATURE BY JIM SHERMAN



Signs of an ancient hunt are the bison tooth and knife found at the campsite. The bison was gether like a jigsaw puzzle. The white area is plaster one of the chief sources of food, implements, was used to fill the area left by missing pieces. clothing and shelter for the early Indian.



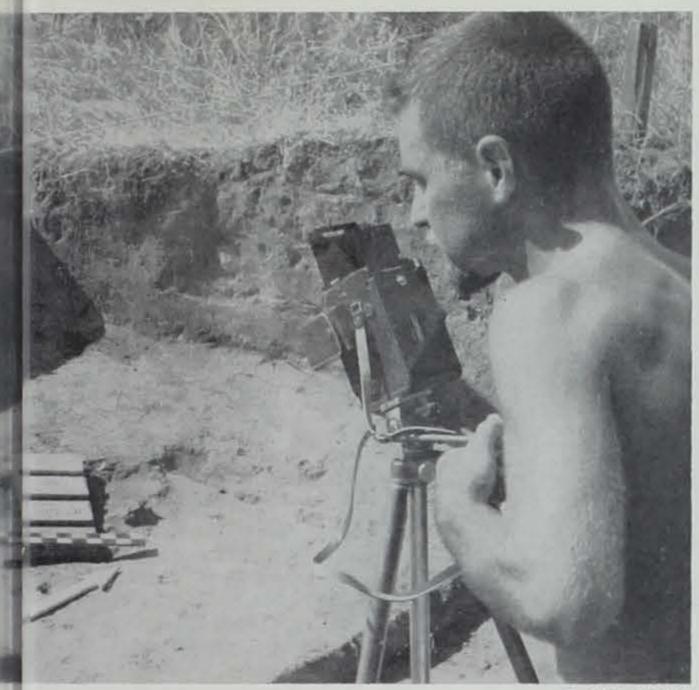
ainstaking camera, i

unique undert on board of the and the rvation ebster O from a o specta 15 OVE areas a State 1 One "dig ited near les Moine

elongs to Complex that liv 6,500 an dig has nber of has been ablishing People camp si moult to assortm

Workin excavat sections kept of Ty load o ataloguer Wheel to a s pump r and w 8 arrow ones and can ,

nts of The crud hese peop



The instaking work is exemplified by this photographer as he records the location th hi amera, showing the direction, and labelling that particular section of the dig.

IOWA'S ANCIENT HUNTERS

Roger Fliger

Hix ring ancient Indian camp unique among the many rojec undertaken by county conwal n boards. Under the superall of the Iowa Archeological the State University of and the Humboldt County ons vation Board, a highly mine team of archeologists have over 120 sites in Humboldt bster Counties. These sites rom a few flint (shrub) hips spectacular mounds. One the is over 800 feet long.

be plothat lived in this area be- ing grounds. real weer ,500 and 3000 B. C.).

os olishing the particular age years. of the people that lived there. Many amp sites used by Indians are d cult to date because of the mixed ssortment of cultures.

Working The Site

The excavation site is marked out in sections and a careful record is cept of the area and depth of ever load of dirt that is sifted. talogued earth is shoveled wheelbarrow and transporte to a large screen sieve. Wate s pumped to the sieve from nes and other artifacts.

W

ceded from the state. The camp location is on an alluvial or flood plain, in soil that was laid down by the East Des Moines River. This soil covers the glacier carried rocks that are found in the creek beds and along the top of the ridge to the north. The many small broken stones in the field tell us that they were carried by these people to line their campfires, lodges and perhaps to grind vegetable mate-

Life Of The Pony Creeks

Early Archaic people lived by Two areas are being excavated hunting, but they added fishing and State University of Iowa plant gathering to insure a better one "dig" or excavation site living standard. These people were 100 ed near Humboldt on the nomadic travelers although they ast s Moines River. This camp were beginning to have a sense of le congs to the Archaic Pony territory which led them towards breek complex (a specific age and settling down and defending hunt-

The lack of pottery at the site This lig has not been spectacular indicates that bark vessels were me per of artifacts discovered, used. Pottery making for these as been extremely valuable people had to wait for over 1000

> Two important gains were made by people of this Archaic period; the domestication of the dog and use of plants to supplement their diet. The main item of food was still meat. Chief game animals reveal more information of how educator or historian.

Not Open To Public

these people lived.

PICNIC? ANY TIME!!

Stan Widney

When it comes to throwing a picnic or weiner roast my cousin Newt's wife, Rebecca, just can't be beat. Whether it's a family reunion or her Sunday school class she's always ready to go in an hour's time and she can get ready just as quick for a two week's camping trip.

Take last Sunday morning for instance. It turned off mild and clear by the time church was out and my wife said, "O dear, it's too nice to go home and cook a Sunday dinner."

fairly beamed. "You're tellin' me!" she said. "I'll have Newt load the box in the station wagon while I'm throwing some things in the kettle."

"Now Becky," said my wife, like she always does, "You're not going to do it all again."

Becky shook her head and waved both hands in front of her. "Land sakes! No trouble at all. If you want you can chip in and pay for the chicken and such, but I want to get going. This air is ambrosia, pure ambrosia!" Becky always says that and my wife replies. "Well, if you're sure you won't go to any extra bother-" "Oh phooey," says Becky, "You know me, But you can make some of the wonderful potato salad if you want, Dear."

That's the way it starts, most every time. We agree on the picnic ground-usually the nearest state park with a lake or stream. "No fishing before we eat!" Becky says.

This time, since it was the middle of October and the first frost had hit our area a couple of nights before, we chose the Ledges State Park. We arrived at our favorite "nook" just north of the boat ramp by 2:30 and found Newt and Becky already there. Our kids joined theirs in the investigation of a few trails they intended to roam after lunch while my wife spread the table.

Newt already had the "box" set up so we just sat around smoking and admiring the blaze of glory that frost had painted on the leaves of the oaks, maples and all the other plant life.

Squirrels were everywhere, so tame in this refuge that they didn't

were members of the bison family facts are lost, traded or mixed which were plentiful in this area. with other artifacts and end up It is hoped that further work will in Auntie's attic-worthless to the

An Ancient Urge

Man has always been a fisher-The location of many sites will man and hunter. Perhaps the love the rand washes the dirt away, not be made known until work is of the chase that makes us take leavis arrow heads, chips, grind- completed. In the past, amateur to the fields also motivated the and untrained people have often early Iowans to tackle mastodons can we learn from the destroyed valuable archeological and giant bison. It is encouraging remn ts of these early crafts- sites by digging up mounds and that state and county agencies can men he crude implements reveal spreading their contents to be coordinate to learn and preserve that see people lived in this area scattered by the four winds. Al- our rich hunting hertiage by this mot lag after the last glacier re- most without exception the arti- valuable archeological work.

mind a bit when Newt pointed a stick at them and made sounds like a rifle shot.

Now and then I watched Becky at the "box" as she transferred partially cooked frying chicken from a big kettle to a huge frying pan on the camp stove which was already giving off crackles and odors that made my mouth water.

That box! Newt had spent a whole winter building it according to Becky's specifications. It was three feet high, four feet wide and 18 inches deep with a front panel that let down to form a table. It fit just right on the tailgate of the wagon, or could be lifted off and That was all it took. Becky placed on a picnic table. When necessary, legs could be bolted on in a jiffy.

> It was filled with drawers and compartments that contained everything from a first aid kit to all the condiments a good cook could ever use. Becky always says, "Pandora never had it so good." She says that box holds enough to feed a family of four two days on a camping trip.

> In no time at all we were sitting down to a meal that left us too full to do anything but toss a line out into the Des Moines River and lie down on the bank and let one of the kids watch it.

> The shadows lengthened and the chill of October crept into our bones. Becky whistled the kids in while Newt and I loaded the "box" back into his wagon—a surprisingly easy task even when full, it was so well organized.

> On the way home my wife said, as she always does, "That Becky! You just can't beat her for knowing how to spend a perfect Sunday afternoon!"

> I thought of all the other "Beckys" we had seen that day at the Ledges, and all of those who had been enjoying picnics in that wonderful weather in other Iowa State Parks, and said, "Yes sir, they sure do!"

THINGS YOU MAY NOT KNOW

The grizzly bear is the only bear with a hump on its shoulders.

No other duck has so wide a distribution as the Gadwall. Of the larger regions of the world, it is missing only from South America and Australia.

Bats utter high-pitched squeaks, sometimes fifty per second, which are inaudible to man.

Treefrogs or treetoads have sticky pads on the tips of their digits which enable them to cling to smooth surfaces upright or even upside down.

Salamanders are distinguished from other amphibians by the possession of a tail throughout their lives. Frogs and toads only have a tail during the tadpole stage.

THE BLACK POWDER GANG

M. E. Stempel Quail Biologist

Hanging low beyond a bare hedge row, a bright November sun silhouettes a quail shooter. He advances slowly toward the motionless tan and white pointing dog. One, two, three steps the man takes. The dog stands tense and quivering. Just an ordinary quail hunting scene.

The gun the man holds is a double barrelled fowling piece that has damascus barrels and a ramrod. The drawn hammers are long eared, and they are cocked over bright copper caps! This could be a scene from 1861 hardly ordinary today.

It is 1961 when many men and some women will be hunting with muzzle loading guns. These hunters thrill to the smoke and flame of the old end-loaders.

Gaining Popularity

Hunting and target shooting with muzzle loading rifles has been a hobby since the day these guns were invented. Collectors pick them up whenever they can. Dealers have sold to all classes of customers in both the foreign and domestic markets. You can get any type of gun in any condition and these may be classed: mint (like new), good, fair, and rough, Collectors and dealers have shows, meetings and their own publications. Also there are charter clubs for shooting enthusiasts in 42 states including Iowa. Not only can you get most types of pistols, rifles and shotguns, and combinations, but you can get repair parts, most of which are standardized. These include nipples, hammers mers and nipples. Fortunately and screws. You can obtain an old gun, a new one, or you can get the part and make the gun. A few

American made rifles bring \$350.00 bores for excessive pitting. and more.

Scatterguns

are favorites. Some of these are there is much enjoyment in doing available in fair condition for \$20.00 this yourself. With the bore and to \$60.00 if in good shape and breech safe you can begin the shootable. There are sources for finishing. If your gun was stored foreign shotguns, a century old or in an attic or other dry place you



How's this for sport? A Manton Flintlock Double (12 ga.) built in 1750 by the gunsmith to the King of England.

came from a family who knew the firing a badly eroded barrel. to shoot or junk. On the barrels hickory-wood stick. you will find the proofing marks, and from these you can learn the country origin.

Sometimes the wood of an old timer is in good condition. In such case you have only to sand and revarnish the stock. Others may require a new stock to look sharp. Hammers may be complete, but often careless hands have snapped the hammers and ruined both hameither can be replaced.

Safety First

The gun you buy may be loaded. make sure the gun shoots safely. handy individuals make barrels al- To determine this, shine a light down the bores to see if it is ures are available from reloading Gun prices are highest for those plugged. If no light comes through supply houses. Some rules of with a pedigree. As an example, the flash holes in the breech, take thumb for loading are, "Measure matched pistols belonging at one the gun to a gun mechanic and powder in the cup of your hand," time to European royalty will bring have the charges removed. While "Like measures of powder and as much as \$1200 a pair. Clean in the shop have him check the shot." A measure that will hold

Do It Yourself

Some gunsmiths will refinish old To bird shooters the shotguns end-loading guns if asked, but older with polished bores and in will find that it is only lightly A-1 mechanical condition. They rusted and cleaning and polishing sell for \$100.00 to \$180.00. Often the bores is quickly done. This is all accessories are with the gun. accomplished by use of a three foot This includes powder measure, cap dowel stick; split one end for two box, cleaning equipment, shot con- inches with a fine cut saw and in tainer, wad cutter, and the gun the other end insert a headless case. These guns range in size screw. Now you can mount the from 10 to 28 gauge. If you want screw into the chuck of a hand or a new gun, these are available at power drill, and insert a two inch about the same price as a modern wide strip of emery cloth in the breech-loader of similar make and barrel. Spinning the stick will soon remove the rust. Polish with fine There is much satisfaction in emery cloth, or with valve grind- include a low growl, a deep, savowning one of the fine old fowling ing compound. Shallow pits will age snarl and a shrill squeak.

pieces. Perhaps you have one that do no harm, but take no chances on

history of the gun. It is a pleasure The action of the gun should to disassemble the old black pow- also be dismantled. Rust can be der shooter, inspect the bores, and removed with steel wool or with take the tubes to a good gunsmith the aid of a razor blade. A broken who will tell you if you have one ramrod can be replaced with a

Shooting Black Powder

Caps for the end loading weapons will likely be the number eleven size. For the shotguns FFG powder is generally used. Wadding may be made of newspapers, napkins or similar material though they can catch fire and be a hazard in dry weather. It is preferable to use hard cardboard wads. One or two of medium thickness are used over the powder while a thin one is placed on top of the shot. Use light loads at first to

Standard powder and shot measthree drams of black powder will also hold the correct amount of

This fall, some black powder smoke will be seen in your favorite shooting territory. Even though modern guns are available that shoot 20 to 50 rounds per minute, the two shots per five minutes from a muzzle loader pack more enjoyment.

Just try a shot with one of those old twist-barrelled, fire spewing, smoke makers. If you're a hunter you will like shooting a percussion because every time a member of the black powder gang rams down a charge of powder and shot he ties himself to the men who made this country.

The vocal sounds of the mink idly when put on a scale.

IOWA'S INTERESTING HARD SHELL SERPEN

Roger Fliger

Turtles arouse the curiosity man whenever they are enough tered. With their heavy shell, h claws and ever-ready jaws, the sometimes bring a shudder to !! less curious individuals.

Iowa has a respectable numb s in the h of turtles-soft shell, snapp tion prac painted, box, blandings, and other gement. I

The snapper and the soft m ed in Wes are the largest and are que mology sur abundant in all of our waters. " quakie (E) other kinds take their place routine su nature's realm, but for other to jointy of the nuisance or curiosity value, I e west side are not economically important | | | | from t

The almost universal reaction ! fish we turtles by people unleashes a whill nesuring barrage of wild tales. One, that ed with the turtle has seven kinds of meat ing and least isn't too misleading. They mer 30, 1 have different types of meat-le were release neck, tail, tenderloin, but it is # .9 to 12 inc all turtle. The neck and loin me I These ar is a rather white muscular mo slocked in resembling (with a little imag June 1960 tion) chicken breast. The 1 1499 ot meat is dark and is much Wisconsin squirrel or rabbit. The legs I laced in a fleshy and muscular. Will a Springs browned and slow baked, the ig of the make you a turtle connoisseur | ed in Cles life.

The Snapper

Let's take a closer look at U latchery, snapper-it is a reptile on while is considered they hung the Latin name "Co total for lydra serpentina serpentin ni return Maybe those Latin namers will in such about right because he does is. The car semble some of the fairy tale Ind carp s serpents. He's mostly tail attificial and head, four legs and shell The cann shell has a top and bottom di cultured . the upper story is serrated on thought food back side and goes by the fat the are two name of the carapace. The low the Ohio floor is called the plastron. Til and the are connected by two nam I lowa us shields between the front and but which wa

Turtles have lungs and are B muskies w breathers, although they can as compare without breathing for long per Heye since of time. After the breeding per us and qui in May and June, the female | 18 their so from 20 to 40 eggs in open, sun les set un t and well drained soil close " lame ma stream bank. The number of the probably varies with the size I since we the female. The eggs meas the contoring about one inch in diameter, white and very rugged in const ly two or tion—a characteristic that foll ally reporter the snapper through life. The | Wo snappers hatch in late summe does a fall and are quite able to take of themselves at birth.

Little is known of the U maximum age and weight. The if there is any topic in which ple like to bend the truth it is wing operation size and life span of turtles. with fish and Canada geese, weight of a turtle decreases

Generally speaking, we

(Continued on page 175)

WEST (

s first red in mi s muskell rst sign o

stocked

EST FIRST "MUSKIE" FOR VEST OKOBOJI

Carol Buckmann

log's first honest-to-goodness curi mus e" in West Okoboji was are apped in mid-August by biolo-

jam The muskellunge or muskie is idder is it sign of successful plantstocked muskies in Iowa able tate in the history of Iowa con-I someon practices and fishery and unsement. It is one of the 40 18 Strock in West Okoboji in 1960. an Allology survey crew captured water (Esox masquinongy) eir a utine survey haul made in rother inity of the Egralharve area value west side of the lake about mporhe a e from the extreme end.

il ma The fish, weighing 1.5 pounds ishe asuring 19 inches, was well One with typical muskellunge s of milor; and identification. In ing 1-pt- ber 30, 1960, when the musf men as ere released, they measured but to 12 inches and weighed 1/3 and These are the only muskies uscul or ocked in Iowa waters.

ttle in ine, 1960, this muskie and t. Dou 1,499 others were bought is mooth, 'isconsin to the tune of \$500 The lid ced in a special pond as the llar. WE Springs fish hatchery for baked wil. Of this number 40 were onnois och in Clear Lake and 40 in koboji while five were held Dennis Lynch and crew at chery.

The is considered a good surtall otal for this fish since 10 return is considered exin such rearing experi-The cannibalistic muskies read carp and goldfish which resartificially spawning. To the cannibalism, the pond is iltured with dayphnia, a opic food.

errate phi are two strains of musby the ne Ohio River Watershed ce. To all and the Ohio Lake Erie front th uch success.

botto

breedillelli their solitary habits, the of Wisconsin waters. he felish; set up their own territory One thing for sure, says Ken eggs val

tic that It , along the Skunk River Iowa waters. h life mes and another around ble to 1-11 ting operations.

ught to have been taken in of habitat.

TURTLES-

(Continued from page 174)

that snappers have survived twenty years of captivity and they may live twice that number of years.

The weight of a turtle depends on the environment in which he lives. A snapper in a shallow lake that has a constant supply of food will grow faster than a snapper in a fast, rocky stream with little natural food. On the other hand the shallow lake may freeze out or dry up, exposing the turtle to hazards that the other turtle will not encounter. Perhaps the ideal condition would be a deep, slow moving stream that has plenty of drift piles, rooty banks, etc., that would provide a constant food supply and a non-freezing wintering habitat.

The Records

After weighing hundreds of snappers an 11 or 12 pounder was found the average, two of the largest weighed slightly over 20. Old "Hattie" of State Fair fame weighed in at 36 pounds and I have seen a couple over 40 pounds in museums.

Of the hundreds of snapper stomachs I've opened, fish or other aquatic life are most commonly found. Crayfish and small fishes seem to be what they prefer. Some vegetation is eaten and also a wide variety of accidental items. These may be anything that swims, crawls, falls or drowns in the river. The snappers can be a real nuisance by taking young ducks, fish from a fisherman's stringers, bait from hooks, and killing fur bearing animals. They are probably beneficial in eating carion, destroying large amounts of undesirable fish, and taking surplus animals that may be in a population explosion. They also provide a well established article of our diet.

Turtle stew has become a house-

lastronic Iowa used the Ohio River a fish rescue operation in the two all which was stocked in Ohio Mississippi River and transported to Clear Lake with a load of north-The nuskies will never be abun- erns. The muskie is not a native compared to bass, crappies, to the Mississippi but a few are they was eye since they are not gre- occasionally reported which are or long ric and quite solitary. Par- thought to come from Minnesota

in open the same manner as the cock Madden, Supt. of Fisheries, besoil clean it. The potential is un- cause of its limited number the since we don't know the muskie is not going to singleth the ish territorial requirements in handedly control the over abundance of small pan and rough fish. diamond two or three have been It may, however, contribute its ged in ci. , reported from Iowa. One part in predation if it survives in

Now it's illegal to take muslate om Clear Lake in rough- kies, but someday, says Madden, we hope to have the muskie availorth Clear Lake muskie was able for sport fishing. As soon as and freed. For several the financial situation will permit, weight the he same fish was captured possibly in 1962, the Fisheries ic in west 1g operatings and released. Section hopes to purchase more e truth me ears later it died, washed muskies and begin a second rearof two ne shore and was later ing project. Improvements planned in rearing techniques include eardecree us now this fish got into Clear lier periodic thinning and experia scale remains a mystery but it mental stocking in different types



Hooking the snapper is just half the sport, you still have to get him out of the water and into a gunny-sack. One like this can really give you a tug-of-war.

lar in Iowa as other areas of the out fast or require much pulling. U. S. Some large cities such as In any case, be ready to grab the Philadelphia have restaurants that tail the minute it emerges from specialize in snapper delicacies— the bank. The turtle is then unmany of them Iowa grown.

(hookers) are a small and little a carelessly tied sack. known group of Iowa outdoorsmen. water has cooled off and snappers and mud. move out of shallow marshy areas toward running water or lakes.

piles of junk, beaver dams, and clamp harder like a bull dog. springy holes will provide a turtle A strange highlight of turtle gathering place.

Hooking

that sounds almost like hitting a ing. rock. Find a turtle and practice The next time you see an old the shell.

shell. When the hook hits solid lions of years and is still with us shell, pull back with everything today.

hold word—although not as popu- you've got. The snapper may come hooked and put in a gunny sack. How do Iowa turtles get to Tie the sack securely as they are Philadelphia? The turtle hunters very powerful and will escape from

Often two, five or even ten All of them list the sport as their turtles will be taken from one favorite pastime. The activity gathering place. Early in the fall usually begins in mid September they are lively and if you don't although there is the more elite work quickly they will swim away. group that pursues turtles by Later in the fall they are quieter, swimming, diving and catching but may require much more energy them by hand. By September the to pull them out through the roots

Turtles are shipped alive to distant markets in wooden barrels or At this time the turtles go into boxes. They are also cleaned and a more or less dormant or quies- sold locally. The expert can comcent condition. In running waters, pletely clean a turtle in five or ten the snapper will choose a protected minutes. After watching some muddy bank that has an abund- people wrestle for an hour to ance of roots, logs, or debris. If a clean one turtle, the best advice riffle hits the outer edge of the en- is to practice and overcome the tanglement, all the better. They notion that they are dangerous. wedge themselves into the mud at The jaws can inflict a painful bite, a depth where they can get air if but they can't take a finger off needed and where the ice will not unless you pull it off. If a turtle freeze them during the winter. An latches onto your finger, push back old muskrat hole will sometimes into its mouth and it will release have snappers six or eight feet its hold in seconds so you can jerk back from the entrance. Also, it out. If you pull and pull it will

hooking is that the snapper is the only member of the clan that is A long steel rod with a small taken in this fashion. Where do hook on one end and a handle on the leather or rubber backs go? the other is used to probe these Sometimes they bury themselves likely places. The hooker usually into the muddy bottom or maybe wades along in hip boots probing they don't den up. There are many all of the likely looking spots. questions about turtles unanswered, When the steel hook strikes a but that is what makes the outturtle's shell it makes a noise doors and its wildlife so interest-

by running a rod over and around mossback crawling across the highway remember there is much When you are certain you have to be said for this serpent with located a turtle, turn the hook up legs that has adapted himself to and slide it down under the lower the changing conditions for mil-

BOB WHITE OF THE MARSH LAND

Roger Fliger Naturalist

The Wilson's Snipe or "Jack Snipe" as it is commonly called, is one of the game birds that was hunted last fall. This year's season runs from October 15 until November 13 during the hours that other waterfowl can be taken. The bag limit allows 8 birds per day and eight birds in possession.

Perhaps there is relatively little interest on the part of the average hunter whether it is included in the list of game birds or not, but to the serious hunter or ornithologist there is an abundance of sentiment and interest.

Being a hunter and amateur ornithologist I must relate my experiences with mixed emotions. The season was closed on Jack Snipe when I first began to hunt. I read articles and books on the subject and listened to the old hunters tell of bygone days of super abundance and the moan and groan stories of outdoors writers and naturalists. It certainly gave one a "born fifty years too late" complex. Since I had never seen the multitudes of fowl or how they had been depleted, I didn't miss them.

I was content to watch the little darter pass over the duck marsh and enjoyed its rasping single call; at least it was a remnant of the horde of the past.

been beyond comprehension.

Over the passing years the Fish easy target. and Wildlife Service checked and until they proclaimed an open season on the Jack. While I was skeptical of the decision I decided species.

I forgot about trying the little demon until several days of the season sped by. It seems sporting habits are as hard to break as any other one may acquire. Although I'd carried a few 71/2 trap loads, it was hard to think about them when there was the possibility of bagging a mallard even though snipe were seen darting over the marsh almost constantly.

or two appeared and they soon confusion into the startled pursuer. game birds, the Jack Snipe belongs disappeared as the sun burned the A year or two after first hunting to our hunting heritage; when morning mist away. A pair of the Jack Snipe I was watching the shore birds moved through Iowa by Jacks with wings cupped settled spring duck migration south of the millions. Whether we add it to into the bogs a short distance Iowa City along the Iowa River. A our game bag or salute it on its away. I shucked a couple light pair of 6 by 30 binoculars replaced erratic flight over the wetlands, ward. The pair rocketed up almost river was at flood crest and areas restoration of marsh habitat should quickly when they were still going ered by several inches of water, senger pigeon. up and my shot pattern wasn't In the gathering dusk I recognized Erratic in flight, explosive on of the Marsh Land.



excellent health.

other game bird in the history of Light trap loads in the 12, 16, or dence of its descent. this country. Since many formerly 20 guage and open chokes are the Later, while rereading the anti-

ample food for this long-billed, nowing". small, shore bird. The majority The Jack Snipe is certainly a stay with us all winter.

down the back and rusty tail sepa- near the Shoshoni Geyser Basin, other protected shore birds. The July 27, 1952. Perhaps it may retremely close before rocketing up it is doubtful. One morning only a lone duck emitting a "scap-scap" to throw Small compared to our other

much bigger than a hat. Luckily I the familiar Jack Snipe take flight missed clean. I waited until they and ascend until almost indistinleveled off and fired the second guishable, then in a violent vibratshot just as the pair took one of ing power dive it came earthward. their characteristic flight dips. This maneuver produced a soft They disappeared in the distance in tremoring whistle equaling no other sound I had experienced in the Since then I've learned some- field before. Not once but many thing of their bag of tricks and times that evening several snipe It is said that more Jack Snipe realize why they must have in- put on the performance with the fell to the hunter's gun than any trigued the gunners of the past, repeated pulsating, haunting ca-

abundant species of birds such as order of the day. I had fine shoot- quated text books, I learned that passenger pigeon and prairie chick- ing with my little .410 single and the sounds were once common in en were included in the list, the would imagine a double .410 would the spring on glacial wetlands of number of snipe taken must have be ideal because they often jump in Iowa. It is produced by the expairs and are by no means an tended tail feathers and cupped wing feathers as the air rushes The edges of sloughs, pot holes through them. This mating flight rechecked the increasing numbers and wet pasture lands provide was commonly referred to as "win-

of the birds pass early in October northerner; few birds ever nested to explore the possibilities of the and November though I have seen in Iowa. John Krider's Notes of them while fox hunting around 1879 report they are "found breedopen springs and tile drains in ing in northern Iowa", W. H. January and February and a few Bingaman reports "one set (eggs) taken in Union Slough (Kossuth The amazing neutral brown plum- County) May 3, 1901," The only age marked with rich brown and snipe I found nesting were three black strips over the head and pairs in a slight rise in a marsh rate the snipe distinctly from the Yellowstone National Park, Wyo., Jack's confidence in its camouflage establish itself in some of the will allow hunters to approach ex- restored marsh lands of Iowa, but

loads into the gun and moved for- the old Ranger 12 gauge. The controlled hunting, preserves, and at my feet and spooked me the that had been quail and rabbit insure that the brown darter will way quail often do. I cut loose too habitat the fall before were cov- never follow the path of the pas- the take off, and a challenge to

Hunting Outlook-

(Continued from page 169) northern birds constituting the jor part of the flight.

GEESE: The production in a jor breeding grounds appears ab normal so the season should similar to last year provide weather and other factors con erate with the hunter.

QUAIL: The quail are making comeback! July and August reside and whistle counts show definite upward trend in the 1 population, according to M Stempel, Quail Biologist. Sin counts by mail carriers near double that of last year. Consen tion officers' counts are somew lower, but still up over 1960.

The significant rise this year be attributed to excellent survey last winter compared to the wim before, which was the worst quail since 1936. Broods appear late this year and if September weather is damp and warm, go hunting can be expected in best areas.

The relative numbers of b whites seem to be fairly en across the southern Iowa range. In the southern two of counties between the Nodaw River near Villisca in the west the Mississippi on the east, brushy draws running into confields can be good ground. En though mail-carrier reports cate a higher population in central counties, hunters have cently done better in the souther

Quail hunters, by the way, o sider dogs an important part of hunting equipment-more than percent rely on the canines in field. And those with dogs mally come out ahead of the hill ers without dogs.

HUNGARIAN PARTRIDGE crease in small grain fields year increased desirable nest habitat for the Hun. It is pected that improved population will provide some fair shooting this splendid game bird.

SQUIRREL: A good populate of squirrels is present in all timber areas of the state. A 8 mast year in 1960 contributed the squirrel population this yes

RABBIT: The rabbit populate is at about the ten year average for Iowa. This year the July ro side counts, conducted by office and biologists, showed a statew average of 4.3 rabbits per miles. The highest counts W made in southern Iowa. In 18 the counts showed 6.9 rabbits ten miles making that year highest in the ten year period.

RACCOON: Population is high statewide.

As cool weather and colorleaves spread across Iowa, hunter will once again revisit favorite fields, marshes and wo land. A supply of his favorite ga will be waiting to be harvested,

gourmet, they are the Bob WI 43

INSERVE

BE HU

of the r mg is to mal ad for the and for th Any hunter Onted with crippled gin down, a must be do thy as possible a hunter tr make a cle so he must k ded animal e hunter wh

and does p strain, esp used to it. unnecessa already inju s work from one likes to but we real or crop of must har With this I

a loss of

ill agree th

lled in a

from his tru market escapin get your quires ver