

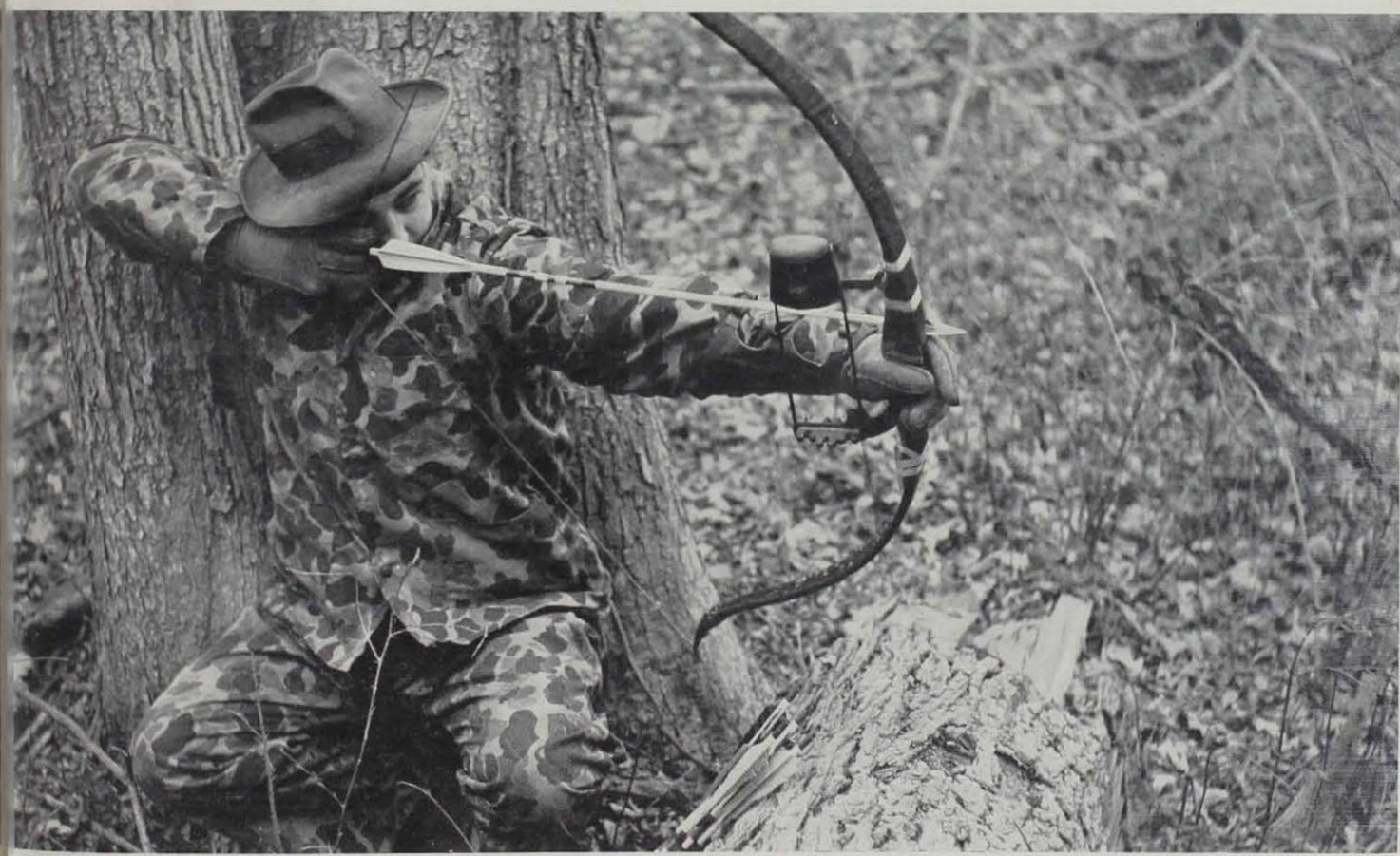
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October, 1963

Number 10

# TIPS FOR BOWHUNTING IOWA DEER



The lowa bowhunter has enjoyed high success during past bowhunting seasons for lowa deer.

George Tovey Photo.

# YOUR FIRST BOWHUNT?

Tom Ballard

g game hunting in Iowa with gun or bow was unheard of a few s ago. Today the Iowan equipped with bow and arrow and some knowledge of white tail deer habits has a good chance of ing his limit this fall.

but many items and ideas can add much to your hunting success enjoyment.

ing weapon and should never be considered a toy or as something is not dangerous. Although a longer bow is more stable to shoot, w of shorter length is easier to get through the brush quietly. new bowhunter has to strike a happy medium between his accey with the bow and ability to silently stalk with it.

you are wondering why the deer don't leave the county at the sound of the loud TWANG of the bowstring, the answer is simple.

Hunters put rubber buttons on the string near the tips that serve a dual purpose. The buttons stop the string noise and will not allow weeds to catch between string and bowtip.

#### Arrows

Hunting arrows are usually matched in spine or stiffness to the individual bow pull. The minimum bow weight or pull that can be used for deer hunting in Iowa is 40 pounds. Arrows that are not spined for the hunter's bow will either break or follow a very erratic flight path. Judge the broadhead arrow points on quality of strength, sharpness, and weight.

#### Quivers

Each type of quiver has its own advantage or disadvantage. The back or common type of quiver can carry many arrows and usually has a small pouch to carry extra points, glue, pocket knife, small pliers to extract points from trees, extra bowstring, and an apple for that nine o'clock break after an early morning stand and stalk. This type of quiver is somewhat noisier and more difficult to handle than the hip quiver.

The hip quiver is usually attached to the hunter's belt or pant (Continued on page 80)

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CIRCULATION THIS ISSUE	54,000

### COMMISSION MINUTES Des Moines, September 3 COUNTY CONSERVATION

ACTIVITIES

Franklin County received approval for the acquisition of thirty acres of land on the West Branch of the Cedar River at a total cost of \$1,500 to be used as a river access and game area.

proval for the acquisition of 9.11 Area in Allamakee County. acres of land as a gift for the deto U.S. Highway 30.

Pottawattamie County received approval for the acquisition of 105 acres of land at a total cost of \$19,000 for the development of a multiple-use recreational area located on the West Nishnabotna River.

Delaware County received approval for a development plan for the Turtle Creek County Park located on the south shore of Lake O'delhi. Most of the 109 acres will be retained in its natural state as a forest preserve and game habitat area with the development being done near the lake.

#### FISH AND GAME

The Commission approved an administrative order designating certain areas of Lake Ahquabi, Lake Darling, Lake Wapello and Green Valley Lake as inviolate ref-

hunting seasons.

A flowage easement on the Miami Lake Area in Monroe County was approved for 99 years at a cost of \$400 for 20 acres.

Approval was given for an option for five acres of land at a total cost of \$90 on the Raccoon tering spot, it rarely wanders far ton. The area as it was purchased River in Dallas County for a fish- away. Sometimes it will stay in in 1961 was partially marginal ing access area.

#### LANDS AND WATERS

An Attorney General's opinion was read stating that the Commission does not have authority to a rabbit in distress, chances are sonably filled by flooding. In addi- wood along the access road, Oth sign a management agreement you can call a fox or a bobcat, tion, a higher prairie area, and a were surprised to learn of plant on state land, and unless this make a long squeak.

land had no conservation value it could not be conveyed.

A delegation from the State Highway Commission met with the Commission to ask for juris- young people who will determine wildlife-from microscopic animal quest was granted.

The Jasper County Engineer re- resources. ceived approval for the use of one TOM BALLARD, CAROL BUCKMANN, JACK and one-half million gallons of wa- why and how we are endeavoring food and hiding places around new metabolic places around new metabol a one inch drop in the lake level.

> Approval was given for the Iowa Lake MacBride State Park at a cost of \$1,200.

An option for seven acres at a cost of \$15 per acre in the Stephens Forest Area in Lucas County was approved.

An option was approved for 63 acres at a total cost of \$1,000 in the Stephens Forest Area.

thirty acres at a total cost of tiles. They are increasingly im- turtles. Some of us go to he promy of Marshall County received ap- \$1,577 in the Yellow River Forest portant for the recreation, educa- the chorus of frog and toad son were old

An option was refused for six velopment of a county park and a acres of land at a cost of \$500 per highway safety rest area adjacent acre adjacent to Pikes Peak State shallow and sometimes temporary This nation surely has enough Park near McGregor.

> A temporary permit was approved for skiing to continue in Pilot Knob State Park.

Condemnation proceedings were authorized on six parcels of land includes shallow lakes, ponds and more important to the culture B on the Cass County artificial lake potholes characterized by growths happiness of Americans. Man do

to the Executive Council that two weeds, and a host of marsh grasses will depend upon your understand small parcels of land be deeded to and sedges even though many ing, your convictions and you the Cities of McGregor and Belle- ponds and potholes may become votes, so remember the Chine vue, as they are no longer desir- dry in summer. able for conservation purposes.

#### GENERAL

The Commission approved a statement of policy concerning flood control work on the Little Sioux River and tributaries and authorized Dr. Kinney and Earl Rose to represent the Commission at a hearing concerning this ation is not in outer space. Chick-

Travel was approved for the The Commission met with a del- Prairie Grouse Technical Council egation of hunters from the Bur- at Nevada, Missouri, and the Lewis lington area to discuss the current and Clark Planning Meeting at Portland, Oregon.

> A joint meeting was held with the Natural Resources Council and the Board of Control for a discussion of mutual problems.

one tree for weeks at a time during land subject to the spring flooding this area saw the diversity of flooding zero weather.

# WETLANDS

Roberts Mann

This bulletin is addressed to the centers for a myriad forms o ) me Las diction over 32.8 acres of land in and must share the future of our in the water to the deer that com group are Viking Lake State Park for use country. As citizens you will have to browse and drink. Muskral in the branch branc in building U. S. Highway 34. Re- responsibilities. Among them will build houses there; prowling min his fall. be the conservation of its natural raccoons, opossums and foxes leav a take a

ter from Rock Creek Lake for use to conserve and use wisely the them. Hungry herons, egrets an using the t in highway construction in that forests, soils, waters, minerals and bitterns stand like statues in the parts and county on the condition that the wildlife. You may not know much shallows; redwing blackbirds net along gun of removal would constitute less than about still another resource, nor among the cattails; martins, swa you before that it is being destroyed-largely lows, dragonflies and bats pursu, and to cle by drainage for agricultural pur- insects on the wing; ducks, traile wor and m poses but also by flood control by ducklings in single file, gli a live form to purchase a power line within projects, industrial and residential in and out of the vegetation developments, dumps and pollution. summer. That resource is what remains of

preserved. They not only provide crayfish, the eggs and tadpoles the habitat for waterfowl, for fur frogs, toads and salamanders, bearers such as muskrats, mink well as jars of water teeming WI HITE Follow and beaver, and for many upland tiny organisms. Bird watche, which is game birds and mammals, but also find more kinds around wetlan for hundreds of non-game mam- than anywhere else. Youngste An option was approved for mals, birds, amphibians and rep- come there for fun, frogs many

designate low areas covered with bare-footed along a muddy shot or intermittent waters, but not farm and pasture land alread and in tro streams, deep lakes and reservoirs. enough to eat and wear; enough It includes marshes, sloughs, surplus crops in storage. Le swamps, bogs, wet soggy meadows, preserve the wetlands. As 0 10 and also bottomlands subject to population grows and its leist and the overflow by rivers and creeks. It time increases, wetlands become of aquatic plants such as cattails, not live by bread alone, The Commission recommended bulrushes, reeds, arrowhead, smart- What happens to the wetlan

Those wetlands are community candle than to curse the darkne

tracks on the shores; rabbit not fream You have learned a lot about pheasants, quail and turkeys in your as res

Science teachers and naturalis and was our precious natural WETLANDS, bring groups to wetlands to a They are important and must be and collect aquatic plants, insect tion and enjoyment of PEOPLE. in spring, to watch the dudy The term "wetlands" is used to coots and sandpipers, or wa

stamp or

of the 1

Would (

Blue

first ste

-grease

proverb: It is better to light

# OUTDOOR EDUCATION NEWS

Tom Ballard

#### LAND FOR LEARNING

All of the interest of this generuges during the waterfowl hunting matter September 9, at Ida Grove, asaw County Conservation Board is vitally interested in the space under our feet and the conservation attitudes of our most important resource—boys and girls.

Chickasaw County is probably the first county in Iowa to embark upon a school-county outdoor laboratory and school forest project.

The Twin Ponds project is on a biologically diverse 157-acre tract Once a porcupine picks on a win- six miles southwest of New Hampof the west branch of the Wapsi- and fauna in the Wapsi River pinicon River. One pond was fed pond, a prairie, and the woods. If you can imitate the sound of by fresh water and the other sea- teacher found a piece of petril with the City of Bellevue for the The oldtime Indian did this by timbered hillside littered with different types of plant galls, operation of a sewage disposal sucking on the back of his hand to junk, car bodies, and rubbish milkweed and the monarch butt rounded out the land acquired.

On August 23, a teachers wor shop was held at Twin Ponds. littered area had been cleared new well was in use, restroom cilities available, and a brand n shelter, all made of native lo materials, provided ample proof the transformation of this area.

The County Conservation Boa Chickasaw County Schools, U. Soil Conservation Service, Ext sion Service, and other state ag cies will cooperate to develop area into a living library for 8 dents, teachers, and laymen of Chickasaw area. During the aft noon of the workshop, over fo teachers and many others ir

(Continued on page 78)

# GET READY FOR HUNTING!

# Some Last Minute Tips

Jack Kirstein

you are looking forward to own brand of hunting excitethis fall, then it is certainly to take another look at those ite firearms and be sure that are as ready as you are.

ne and neglect have a way of hing the tough steel of a fireparts and reprimanding the ess gun owner with rust.

w, before it is too late, take me to clean that trusty shoter and make any repairs you have forgotten to do in the of summer camping and fish-

ip and water are the greatest cleaners invented. Here a caution is necessary. You be sure to completely dry all , immediately after a sudsy his bath may mean the differssfully and a jammed gun in in the ield.

many others, the use of that the blueing. ite old "number 9" cleaner the I that is needed to put the your gun with the first application. stamp on their equipment.

rust has set in and you find elf in trouble, don't panic.

e use of a fine soft steel wool usually loosen those rust s, and if followed by a good nt and the inevitable oil, you be back on the track again.

> heavy pitting has left its and the rust has removed of the blueing, a gunsmith be your best friend at the

ould your favorite gun doctor o busy to take your gun, and it back in time for your ned trip, you can give a stopblueing yourself that might ise you and turn out as good would expect from the ex-

d-blueing is the operation can be applied by the novice is own guns.

Blueing a Gun

e first step in this operation de-grease the gun so that the ig agent will be free to work e metal parts.

greasing is best accomplished alcohol washing of the areas blued. Gasoline is also used, oust be used with caution and rably out-of-doors, to escape angers of fire and possible ing of the strong fumes.

sure to follow the directions the blueing kit that you pur-. Take no short cuts, and if

say do something, do it. ually the next step is the d blueing itself. This is actua cold acid-base bath that is ed with a small swab of cot-Several light and even applins may be needed to bring gun up to the color you want.



Jack Kirstein Photo

If you are a "last-minute" man, time is running out to get your gear in shape for the '63 hunting season. Some attention to equiping. Followed by a light oil- ment now may save you disappointment in the field.

between a shot you get off tions rather than one-shot blueing. The cold aspect of the operation also retards the speed and depth of

What this means to you is that he necessary light oiling may you won't ruin the appearance of

> After the blueing is applied, there is a period of time usually stated on the bottle of blueing, that is needed to allow the blueing agent to work. Don't shorten this time, as it is carefully computed by the manufacturer and less time you will have to take.

> metal in water to set the blueing. and then a light coat of oil in a small area will permit you to see how deep a blue you have achieved.

> If it is not deep enough, start all over with the de-greasing step and go through it again. By the second many times it will take to bring the gun up to your expectations.

> This may or may not be a protect the gun until the time when it redone.

> Don't forget that shooting a few traps or a little skeet are the for that big day when it comes.

> Many authorities consider that the most dangerous of all the ani-"mean" domestic bull.

to the beaver than to the rat.

Deer fawns are devoid of any telltale scent, the better to avoid the consequences of marauding predators.

# Dipper Ducks and Diving Ducks

Ducks.

dom dive, even to escape danger, able than that of surface-feeding only adds to the number of steps When alarmed they spring from species. They taste fishy. the water with a strong upward A diving duck has shorter legs, When the time is up, wash the bound and are gone, They prefer located farther back on the body, ponds, sloughs and rivers where, and larger feet distinguished by a in shallow water, they can scoop big hind toe with a pronounced up food with their broad strainer- flap or lobe. These adaptations like bills that have fine comb-like cause them to be more awkward fringes along the edges, or up-end on land but increase their ability themselves and, with their tails in to dive and swim rapidly. Instead the air, dabble for it on the bot- of springing upward from the waapplication, you will know how tom. Consequently they are com- ter, most of them patter along the monly called "dipper ducks," "dab- surface for some distance, like an blers," or "puddle ducks."

This group includes many of the becoming airborne. fessional looking job when you are most brilliantly colored ducks and In Bulletin No. 252 we discussed finished, but it will certainly pro- they are characterized by a dis- three species of diving ducks that tinctively colored and usually ir- commonly migrate from far north you can get it to a 'smith to have ridescent patch of feathers, called and winter along the shores of speculum, if any, is usually white ter, and the noisy long-tailed old best remedy for "can't hit a thing- or gray. With few exceptions the squaw which has been caught in itis" and you'll be more than ready surface-feeding ducks are more fishermen's nets at amazing depths feed is vegetable matter.

mals found in North America is a common mallard, black duck, bald- arctic clothing-are less common. pate or American widgeon, gad-A muskrat is not a rat but an winged teal, cinnamon teal, the bill, are diving ducks esteemed as amphibious rodent of the vole shoveller or spoonbill, and the game birds but the redhead and group and more nearly related wood duck-most beautiful of our the canvasback, being essentially wildfowl.

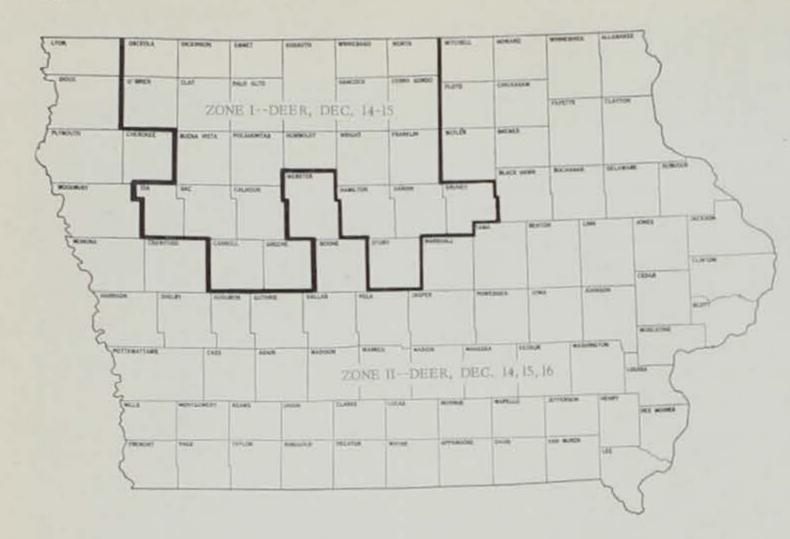
blueing agents, are purpose- been clocked at 40 miles per hour. their food by diving for it-some- scarce. Roberts Mann, ide to require several applica- They cover 15 to 20 feet in a leap. times at considerable depths. Con- County Forest Preserve,

Almost all of the wild ducks na- sequently, inland, they frequent tive in North America fall natur- large deep bodies of water rather ally into two groups; the Surface- than sloughs, ponds and marshes. Feeding Ducks and the Diving A few are chiefly vegetarians but, Ducks. In addition there are three generally, their food includes much species of Mergansers or fish less vegetable matter and in many ducks, the unique little Ruddy cases consists mainly of shellfish Duck and, in Mexico, two long- such as clams and mussels, crabs necked kinds misnamed Tree and other crustaceans, sea urchins, fish eggs and fish-food which The surface-feeding species sel- causes their flesh to be less palat-

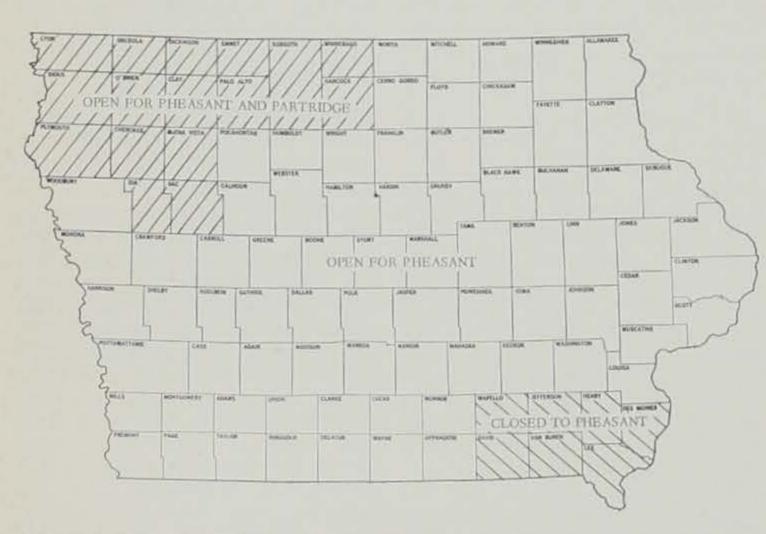
airplane on its take-off run, before

the speculum, in the middle of Lake Michigan: the American each wing. On diving ducks the golden-eye, the white-winged scopalatable and sought by hunters of 150 or 200 feet. The king eider because more than half of their and American eider-sea ducks famous for their down used in the The principal species are the manufacture of sleeping bags and

The ring-necked duck, the scaup, wall, blue-winged teal, green- and the lesser scaup or little bluevegetarians, are most highly re-There are 43 kinds of diving garded by epicures. The redhead ducks and most of them occur reg- was once the commonest of all ularly in North America. Some are diving ducks but unfortunately, primarily sea ducks and several due to excessive hunting and nest in Arctic regions. Unlike the drainage of the nesting areas, they When pursued, jack rabbits have surface-feeding ducks they get and the canvasback have become







### Things You May Not Know

Although they are not known to eat meat, porcupines are very fond of bones. Presumably they eat these for the minerals.

The maximum time between drinks for the average camel is eight or 10 days. If it were not required to work during this period, it could probably last longer.

The coyote can run much faster than an ordinary dog and is more than a match for a dog of its own size and weight.

with their mouths and nostrils may be refused licenses for subsequent seasons. closed.

sounds similar to that of a lion.

# 1963 Hunting and Trapping Seasons

OPEN COUNTIES AND LIMITS

The Conservation Commission is authorized by law to change, h administrative order, seasons, bag limits, and possession limits.

#### OPEN HUNTING SEASONS

Pheasant—Open season: November 9, 1963-January 1, 1964, bott dates inclusive. Shooting hours 8:30 a.m. to 5:00 p.m. Bag limit three (3) cock birds, possession limit nine (9) cock birds. All counties open EXCEPT: Davis, Des Moines, Henry, Jefferson, Lee, Van Burer Wapello.

Quail—Open season: November 2, 1963-January 1, 1964, both date inclusive. Shooting hours 8:30 a.m. to 5:00 p.m. Bag limit six (6 birds, possession limit twelve (12) birds. Open counties: Adair, Adams Allamakee, Appanoose, Audubon, Black Hawk, Benton, Boone, Breme Buchanan, Carroll, Cass, Cedar, Chickasaw, Clarke, Clayton, Clinton Crawford, Dallas, Davis, Decatur, Delaware, Des Moines, Dubuqui Fayette, Fremont, Greene, Guthrie, Harrison, Henry, Howard, Iowi Jackson, Jasper, Jefferson, Johnson, Jones, Keokuk, Lee, Linn, Louisi Lucas, Madison, Mahaska, Marion, Marshall, Mills, Manona, Monro Montgomery, Muscatine, Page, Polk, Pottawattamie, Poweshiek, Ring gold, Scott, Shelby, Story, Tama, Taylor, Union, Van Buren, Wapell Warren, Washington, Wayne, Winneshiek, Woodbury.

Hungarian Partridge-Open season: November 9, 1963-January 1964, both dates inclusive. Shooting hours 8:30 a.m. to 5:00 p.m. Ba limit two (2) birds, possession limit four (4) birds. Open counties Buena Vista, Cherokee, Clay, Dickinson, Emmet, Hancock, Ida, Kossul. Lyon, O'Brien, Osceola, Palo Alto, Plymouth, Sac, Sioux, Winnebag

Squirrel-Open season for gray and fox squirrels: September 1 December 13, 1963, both dates inclusive. Bag limit six (6) per da possession limit twelve (12).

Rabbit-Open season for cottontail and jack: September 14, 196 February 23, 1964, both dates inclusive. Shooting hours 6:00 a.m. 6:00 p.m. Bag limit ten (10) per day, no possession limit,

Raccoon-Open season (hunting only): 12:00 noon, October 12, 19 to midnight February 28, 1964. No daily bag limit or possession limit Weasel, Red Fox, Gray Fox, Ground Hog, Wolf-Coyote-Continuol open season, entire state.

#### DEER HUNTING

Deer-Open season for bow and arrow only from October 12-Decei ber 1, 1963, both dates inclusive. Entire state open.

Open season for shotgun only-Zone 1, December 14-15, 1963 (Zo) 1 includes the following counties: Buena Vista, Calhoun, Carroll, Cer Gordo, Clay, Dickinson, Emmet, Franklin, Greene, Grundy, Hamilto Hancock, Hardin, Humboldt, Ida, Kossuth, O'Brien, Osceola, Palo All Pocahontas, Sac, Story, Winnebago, Worth and Wright. Zone II, 16 of state. December 14-16, 1963, both dates inclusive.

Daily bag limit one (1) deer, possession limit one (1) deer, seas limit one (1) deer.

Shooting hours each open day for bow and arrow, one-half he before sunrise to one-half hour after sunset. Shooting hours for she gun season, 8:00 a.m. to 4:00 p.m.

Deer season open only to Iowa residents holding special deer licens

Deer of any age or sex may be taken.

Weapons-10, 12, 16 and 20 gauge shotguns (with rifled slugs only his and bows of 40-pound pull or more with broad head arrows only " be permitted in taking deer. Crossbows or any mechanically operal I be on d bows are prohibited.

Dogs, etc.—The use of dogs, domestic animals, automobiles, aircra to bag or any mechanical conveyance, electrical devices, salt or bait is proh a ited.

Locking Seal-A metal locking seal bearing license number of censee and year of issuance must be affixed to the carcass of each de between tendon and bone of hind leg before carcass can be transport

License Number and Insignia-All hunters other than those empted by law must possess a 1963 deer license and wear red licel number and insignia provided when hunting deer.

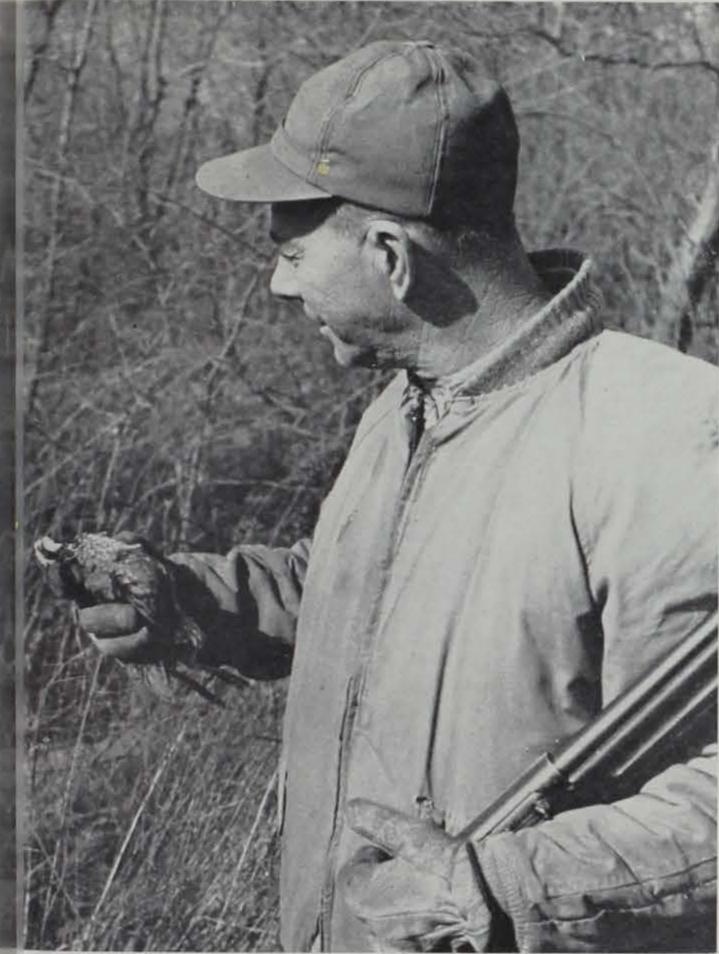
License Not Required-Owners or tenants of land and their child may hunt, kill and possess one deer without a deer license-provided is not removed from said land, whole or in part unless tagged with s affixed to animal.

Hunting Success Report-A hunt report postal card provided W each license must be mailed to State Conservation Commission, Frogs are able to sing under Moines, Iowa, within three days after the close of the season, stat water because they normally sing whether a deer is killed or not. Licensees failing to return this c

License Applications - All applications for deer hunting licenses the 1963 deer hunting season must be made on forms provided by The noise made by the ostrich State Conservation Commission and returned to the State Conserval is a roar, and at a distance it Commission office in Des Moines, Iowa, accompanied by check money order in the amount of ten dollars (\$10.00). Applications

4:30 n

now deer e is no lim



uail have bounced back from two hard winters to offer excellent hunting possithis fall. Population increases are over 100 per cent better than last year. ONS-

(Continued from page 76)

un deer hunting licenses will be accepted from August 30, 8:00 Intil 4:30 p.m. September 13, 1963. There is no deadline for bow rrow deer hunting applications. No more than 12,004 shotgun unting licenses will be issued.

re is no limit on the number of bow and arrow deer licenses that e issued.

#### WATERFOWL

eks, Coot or Mudhen-Open season-SPLIT SEASON: October 5 tober 13, 1963; October 26 to November 17, 1963, all dates inclu-Entire state open. Shooting is allowed each day from sunrise to t except both opening days when the shooting hours will be from noon to sunset. All times Central Standard Time.

; limit on ducks collectively is four daily and eight (8) in possesand on coots is eight (8) daily and sixteen (16) in possession.

daily bag limit may not include more of the following species (a) one hooded merganser; (b) two wood ducks; (c) two mallard ck ducks, singly or in the aggregate of both kinds. The possesimit may not include more of the following species than: (a) two d mergansers; (b) two wood ducks; (c) four mallard or black singly or in the aggregate of both kinds.

e (5) American and Red-Breasted Mergansers may be taken daily ten (10) in possession singly or in aggregate of both kinds. This addition to the bag limit and possession limits of other ducks. son is closed on Canvasback and Red Head ducks.

se-Open season: October 5-December 13, 1963, both dates ine. Shooting allowed from sunrise to sunset except opening day, noon to sunset. All times Central Standard. Bag limit and posn limit five (5). Not more than two (2) of the limit may be la geese or subspecies, or White-fronted Geese. Only two (2) of Dove may be included in the limit. The entire bag may be made either Blue or Snow Geese or any combination of them.

son's Snipe or Jack Snipe-Bag and possession limit eight Open season: October 5-October 13, 1963, both dates inclusive. ng hours will be from 12:00 noon to sunset.

, Woodcock, Swan-No open season.

#### HUNTING LICENSES

Residents—Required of all residents regardless of sex except those under sixteen years of age if accompanied by a parent or guardian or any other competent adult who possesses a valid hunting license .....\$2.50 Combination hunting and fishing .....\$4.50

Non-Residents or Alien\*—Required of all non-residents and aliens for hunting .........

"Upon submitting suitable evidence of legal residence in any other state, non-residents of Iowa shall be charged the same fee for a hunting license as that charged to residents of Iowa by the state in which applicant resides, provided, however, that in no case shall said fee be less than \$5.00 and provided further that if the state of applicant's residence does not provide for non-resident hunting license, the fee shall be the minimum provided for herein.

\*"Alien" shall not be construed to mean any person who has applied for naturalization papers.

Federal Duck Stamp-All persons who have attained the age of 16 years hunting migratory waterfowl are required to have with them an unexpired Federal Migratory Bird Hunting Stamp, validated by their signature on the stamp. These stamps, commonly called duck stamps, may be purchased at post offices for .....\$3.00

Deer License (Residents Only)—Required in addition to small game hunting license of all residents regardless of age or sex for hunting deer.

Bow and Arrow deer hunting license .....\$10.00 Shotgun deer hunting license .....\$10.00

#### TRAPPING

#### OPEN TRAPPING SEASONS

Special regulations shall be enforced on all State Game Management Areas and Federal Wildlife Refuges. The trapping on all State Game Management Areas and Federal Refuges will be by "Permit Only" including a harvest quota on fur species to be determined by the Commission and the Bureau of Sport Fisheries and Wildlife. Permits for the State Game Management Areas are available from the State Conservation Commission, Des Moines, Iowa. The permits for Federal Wildlife Refuges are available from the various Refuge Offices.

On State Game Management Areas and the closed-to-hunting areas of the Federal Refuges, the seasons will open at noon the day following the close of the duck season, or noon November 9, 1963, whichever is the latter, and extend to midnight, December 8, 1963 for mink, and to midnight, February 28, 1964, for muskrat, beaver, badger, skunk, civet cat, opossum and raccoon.

Mink-Entire state open from noon November 9, 1963, to midnight December 8, 1963.

Muskrat-Beaver-Open entire state from noon November 9, 1963 until midnight February 28, 1964.

Badger, Skunk, Opossum, Civet Cat-Open entire state from noon November 9, 1963 until midnight February 28, 1964.

Raccoon-Open entire state from noon November 9, 1963 until midnight February 28, 1964.

#### TRAPPING LICENSES

Trapping license for legal resident of the State under sixteen (16) years of age .....\$1.00 Trapping license for legal resident of the State sixteen (16) years of age and older .....\$3.00

Non-Resident or Alien-"Alien" shall not be construed to mean any person who has applied for naturalization papers.

"Upon submitting suitable evidence of legal residence in any other state, non-residents of Iowa shall be charged the same fee for a trapping license as that charged to residents of Iowa by the state in which the applicant resides, provided, however, that no such license shall be issued to non-residents from states that will not extend to residents of Iowa a similar privilege and provided in addition that in no case shall said fee be less than \$10.00."

Every person shall, while fishing, hunting or trapping show his license, certificate or permit, to any conservation officer, constable, sheriff, deputy sheriff, police officer, peace officer, or the owner or person in lawful control of the land or water upon which licensee may be hunting, fishing or trapping when requested by said person to do so. Any failure to so carry or refusal to show or so exhibit his license, certificate or permit, shall be a violation of this act.

Ever notice the lateral line ex- nerve branching off to all parts of ing allowed from sunrise to sunset except opening day when the tending from the gill openings to the body. Some scientists believe the tail? It's really a tube per- the lateral line serves as a warn-S' Geese, Grebes, Rails (Except Coot) and Gallinules, Mourning mitting mucus to secrete along ing to the fish of sudden harmful the body. Beneath it is a trunk temperature changes.

# BY THE LENGTH OF A FEATHER

M. E. Stempel

Quall Biologist

The quail covey rocketed out of the cover in a blur of wings. Seconds after the covey rise, a single small "squealer" quail struggled into the air and sailed a short distance: he alighted in the foxtail weeds at the edge of the corn. In the afternoon sun you could see that his tail and wing feathers were uneven and ragged. His flight was limited because of the poorly developed feathers.

In that covey each quail flew his best. Those with the longest primary flight feathers and the longest tails flew the farthest. Thus, the covey on alighting was strung out for 60 yards with the weaker squealer only 30 yards from you, while the most mature had flown over the rise and into the safety of the distant willow jungle.

Four months later you flush a covey from the same area. Up they spring with a startling "brrr' -necks bent, tails fanned outyou see the eye of one cock blink in that instant before they level off to flash away: Then on set wings they bank sharply to the right to disappear behind the thicket of elm saplings on the creek bank. There was no squealer. Three weeks ago his ragged feathers were scattered by a cat, not far from where you stood. The half-wild cat marked down the weaker quail as it alighted, and the sharp eyes found the small bird. Quick claws brought him down before the weak wings could beat through the overhead tangle of brown foxtail weed cover.

#### Feathers and Flight

would survive the winter and this grow all ten. Ability to fly depends



George Toyoy Photo

The rounded tips of the feathers show this to be a young quail. Feathers play an important part in the development and survival of quail.

bring off young the following sum- growth. mer. From 1916 to 1933, quail Moult in adults is under way at

bobwhites failed to increase. Ap- some missing feathers and flight parently there were differences in ability is similar. A short sumthe birds, and all could not survive. mary of the development in young One theory was that quail would is below: survive only in proportion to the June 15, hatch date. good habitat. However, there was July 15, 30 days old, flies a few a religion over the periods span an unanswered question as to yards. which quail out of a covey would August 15, 60 days old, flies over were built by hand and piled up live through winter. Some clues to survival were found in our records September 15, 90 days old, flies of growth and habits of quail.

feathers. These are moulted one at It was once thought that to in- a time beginning with the inner- November 15, flight power at a crease the quail population it was most feather. Young will shed and only necessary to prevent shoot- regrow the first eight of these, but ing for a few years. It was rea- they retain the outer two. Adults often follows the well known "scatsoned that a covey of 10 quail (over one year old) shed and re-ter" pattern when alighting. The

hunting in Iowa was prohibited by the same time it occurs in young. Thus, when young approach ma-Although legally protected, the turity, both young and old have

50 vards.

strongly.

Quail have ten primary flight October 15, 120 days old, flies 100 yards or more.

peak.

(Continued on page 79)

As Part of Your Fall Color Tou Visit . . .

# TURKEY RIVER MOUNDS

maker 0

etest d

This of e

My M

The Turkey River Mounds o harske sho the high bluff at the junction of broods the Turkey and Mississippi River in fights 3 six miles south of Guttenberg, is a reling, group which appears to have he distinct ceremonial purpose Mounds in this area seem to sen 1952 both ceremonial and burial put meeter poses.

There are more than 30 lang was Of the mounds and almost the same nur blank ber of smaller mounds. One huj tir best qui animal of reptilian shape is in the rest in group. Obeying tradition, he poin there his nose downstream and lies was the his right side.

Densely wooded, the Turk W We River mounds remain today one Min chara the midwest's most primey will the viole tracts. The mounds appear to ha the min | played important parts in tril libe were traditions of the mound builded at the Situated on high bluffs, there is the b good reason to assume they ha would mean 5 pairs of quail to on stage of primary feather symbolized a kind of mecca in the stage mound builders' religion.

The peculiar layout of the co line of cal mounds, interspersed with eal shapes or animal forms, s the gest that complex rites were p formed by these primitive peo on the bluffs. Thousands of n hours obviously went into mounds construction and the probably rose with the growth by many generations. The mou the most primitive methods.

Soil tests have shown that so of the soil was carried in fi great distance while other pr were scraped from nearby. cost, in years of human lives build the primitive mounds p The above shows why a covey ably exceeded almost any of project in Iowa, in primitive modern times.

### EDUCATION

(Continued from page 74) fly, the flower parts of ironw and numerous other living tea aids that are normally overloo or stepped upon.

Is there any doubt of the for education in conservation natural resources? For a m tude of reasons more teachers students, even in Iowa, are getting close to the outdoors their ancestors knew well. Url zation, increased leisure time, 1 pressure on outdoor recrea population increases, and T other sources of concern poil the need for more areas like one in Chickasaw County.

If we and our grandchildren going to have resources to serve we must educate our and girls now. The Chick County Conservation Board taken a step toward meeting needs of the future today. about you?



#### THER-

(Continued from page 78)

ig birds fly farthest. When ral coveys combine into one, nesting.

#### How This Is Used

om 1952 to 1959, quail wings collected from 30 southern counties. There were 13,206 s. Of these, 2,641 were wings

was in 1954 and 1958. In there was ten per cent as in the bag with twenty per in 1958. The seasons of 1953 1955 were poor production ds characterized by drouth other violent weather changes. r years in the 1952 to 1959 d were average in producof the bag.

> ost notable difference in proon within similar good years the sizeable change in the iers and thus more of them weights. strong flyers and could esmore adults bore immature feathers, they made only flights in the hunting season they were easily located and by hunters.

ail populations suffer an anloss of eighty to ninety per Hunters shoot only about n per cent of this amount.

noted that there was conhites to make strong flights. making the poorest flights se, accident and freezing.

ice inferior birds are lost first, s, the hunter may take fifteen an annual ring. ent, and the other sixty-five ent is claimed by other agen-This was proven in areas shooting was allowed after of protection.

e taken by disease.

urces

cate

### Then Came Fish . . .

Carol Buckmann

"Nothing in the sea is unknown weaker or younger birds fly to us." These were the words of the shortest distance. Runty quail Pliny, a historian and natural make short flights, and adults philosopher in the great days of h brooded late will make Rome, who at the time knew of It flights since they must molt 75 species of fish. Since then, over 20,000 species have been identified and new ones discovered each year.

Fish marked a revolutionary event on the evolutionary calendar as they are the first known vertebrates. By no means are they new-comers to present waters; the ancestors of today's fish date back ir best quail hunting in recent 500 million years to the Devonian period-the Age of Fishes.

Of the four distinct classes, the true fishes with bony skeletons and vestigial air bladders, sharks and rays with soft cartilage skulls and skeletons, primitive jawless lampreys, and primitive lancelots, the true or bony fishes are by far the and adults made up fifteen per most numerous. If a person were so inclined, he could identify 1,400 different varieties from the inland fresh waters to the oceans.

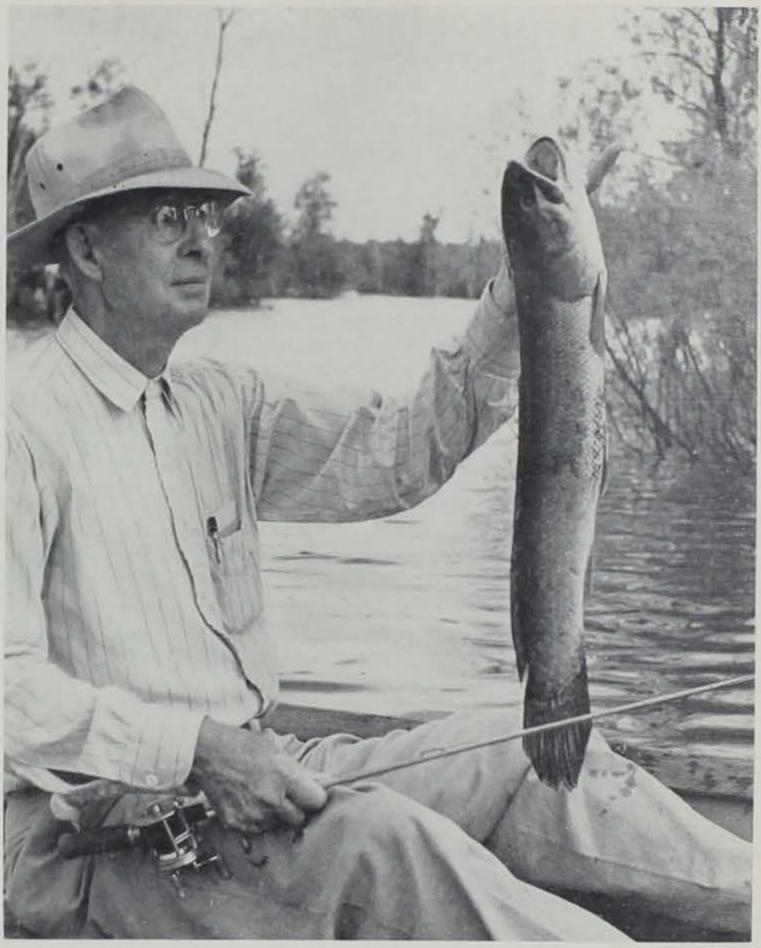
Some, like muskellunge, trout, entage of adults. Early hatch- bass and pike or ocean giants such n 1954 may have led to early as the giant grouper, marlin, 1 of the breeders because of swordfish and sailfish, give the III train of early nesting. It was fisherman a fight to the finish as probable that it meant that while others like the flounder, fluke early (May and June 1954) and halibut, move lazily about and ng quail had regrown flight are pulled up as unresisting dead

The Devonian period was production season meant plagued by great droughts, forcing fish to develop a means of breathing oxygen from the free air. As a result, the vestigial air bladder characterizes true fishes. It lies between the stomach and backbone and seemingly serves no purpose. In sharks it is absent but the African lung fish use it to breathe above the water's suface.

Before the bony fishes appeared able variation in ability of the only sea animals with hard anatomical coverings were shell fish such as clams and starfish. most apt to be shot. Since The first vertebrates had hard are capable of only short internal parts and also a protecs, these often are hunted tive external armor represented first. Also, since they are today only by scales. Some, such to be physically weak they as the porcupine fish, have offensubject to destruction by sive armaments developing from their scales.

Most bony fish have scales in are included in the annual adulthood, but at birth scales are y to ninety per cent turnover lacking and scale nuclei barely he population. The hunter covers the body. As scales begin

> In the summer, when food is plentiful and the water warm, fish experts reveals whether it has distance.



The dogfish or bowfin is one of many lowa primitive fish. Not usually the target of fishermen, many are caught along the Mississippi. They are gamy fighters, but not

spawned and even its length at the end of each year of life.

favored as food.

The skin beneath the scales varies in thickness with the speagainst irritants. Slime also acts to trap shooting ends there. as a lubricant to aid in the fish's movements through the water.

Coloration is in the skin rather than scales. By blending with the background and developing many intricate patterns, skin aids in hiding fish from enemies. Starshaped sacs, known as chromatophores, imbedded in the skin contain pigments in the center, "6".) High targets are thrown making this blending possible.

many of his kill from this to grow, the free ends overlap the thened or weakened as the pig- tion seven at the other end. The on of the birds. In other fixed ends of other scales and add ments along the arms of the star trap houses at station one and

Although they lack eyelids, fish grow rapidly, the scales grow at do sleep and can distinguish bean increased rate to keep up and tween certain colors. To maintain the rings are spaced farther apart. their equilibrium, fish make use of member how that covey But in the winter, growth slows a fluid in their inner ears. They ted? They scattered with the and rings grow closely together also hear by means of the inner st flyers (young or adult) forming a band. Scales are the ears and can smell and taste. Catting nearest the hunter: These source of valuable information, fish wait until a barbel or taste er birds are most easily Counting them determines a fish's bud touches a morsel even though by the gunner, or the cat, age, and careful examination by they can smell food from a great houses, are then shot from stations

# Trap or Skeet-

Skeet shooting is an American cies. All skin is alive at the sur- invention, circa 1910. The word face and needs protection of some "skeet" itself is an archaic Scandisort as well as liquid to survive, navian word for "shoot." The av-In fish, the skin isn't in direct erage skeet squad is composed of contact with the water as a slime five people, each of whom shoots a covers the body, protecting it round of 25 shots. The similarity

There Is a Difference

The skeet field is laid out in a semicircle (or "half-clock") with eight stations for shooting. Seven stations are positioned at equal distances on the perimeter of the "clock" with the eighth in the middle on a line between position one and seven. (Station one would be the numeral "12" on a clock; position seven would be the numeral from station one at one end of the These colors can be streng- semicircle; low targets from staare extruded or withdrawn to the seven are called the "high house" and "low house." Targets are always thrown in the same pattern of flight, but the angle of the shot varies because the shooter changes positions as the skeet squad moves from station to station. Two targets are shot from each of the eight stations - one from each

Doubles, in which targets are thrown simultaneously from both

(Continued on page 80)

#### TRAP-SKEET—

(Continued from page 79) one, two, six, and seven. The 25th leg to hang easily accessible to his shot is called "optional," for it is a drawing hand and may have a repeat of the first miss. If the pouch for "goodies" sewed on it. he can call for a target from any clatter against brush, but is usualstation or house as his optional ly quite adequate for Iowa deer shot.

The National Skeet Shooting Aswith its greatest popularity in the fitted to your needs. United States.

Trap is an organized sport with regulating national associations, formalized tournaments, and governing rules. It is shot over competitive fields of precise, constant specifications. Although both sports are followed throughout the cloth material. world, their greatest popularity is in the United States.

Trapshooting dates back to 18th (usually five in number for a "squad") fire from five adjacen't positions in a crescent-shaped formation 16 or more yards behind the "trap." Shooting is done in 25 shots.

The "trap" is concealed in a low concrete building ahead of the shooters. Clay targets are thrown out of the building at various angles unknown to the shooter, The clay targets usually sail from 48 to 52 yards and in any direction within a 45-degree angle. A perfect score (25 consecutive hits) is called a "straight."

from the 16-yard line. A round accounts for 25 pairs, or 50 targets.

### Did You Know?

The Australian sea horse is almost invisible when in the midst of seaweed due to the leaflike growths on its body.

The ant has two stomachs. One he uses for himself. In the other, he stores food which is to be shared with other ants in the nest.

Fresh water clams spend the first part of their lives as parasites of fishes.

Regardless of his name, the main diet of the sparrow hawk is made up of grasshoppers.

Birds in general have a poor sense of smell.

#### BOW HUNTING—

(Continued from page 73) shooter breaks all of his first 24. This quiver is smaller and may hunting.

The bow quiver is one attached sociation is the regulating body of to either the handle or wings of skeet and issues all rules govern- the bow. Different types hold from ing the sport's formalized, regis- three to five arrows. Bow quivers tered tournaments. Skeet is shot are fast, fairly lightweight, but over competitive fields of precise, will rattle the arrows at each shot constant specifications. Skeet is if not properly adjusted and followed throughout the world mounted. Choose the quiver best

> The modern bowhunter wears camouflage cap, headnet or face stick, jacket, and sneakers or boots, depending on the weather and terrain. Even the shiny, reflecting surfaces of the bow are covered by camouflage stick or

guised by using "buck" lure or scent that contains skunk essence, century England. Trapshooters apple juice, and other outdoor smells. This lure hides the hunter's normal scent and may attract curious deer to within range.

#### Calls

rotation with the person in number fox, raccoon, and deer. Most deer water are likely prey for the bow- overlook. Archery and bowhunti one position firing first and so on, calls are supposed to imitate the man sitting motionless near by or are both fine sports, rewards Each person fires at an individual bleating of a fawn. Calls are avail- perched in a tree ready to shoot, enthusiasts with many hours target. After each person fires five able that are used to entice deer Still hunting, a silent stalk, or a recreation, but one mishap shots from a particular spot on within shooting range but the be- drive of several licensed hunters ruin it for you. the crescent, all move one position ginner can put together his own moving through the timber are all. There are many safety ru to the right until each has fired call with a large rubber band and productive techniques to use. Don't that apply to bow-hunting from all positions for a total of a split wooden clothespin. The neglect to check old apple or archery alike. rubber band is stretched just tight chards, poison ivy beds, and small enough to produce a low, bawling potholes of water in the timber. sound. This homemade call is carhunter's neck. As a deer is spooked this call will usually stop the deer in his tracks, allowing time for successful, enjoyable deer season. another shot.

#### How and Where

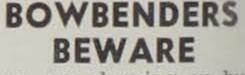
thrown simultaneously, are shot and movement of the local deer does so with great success.

Standard equipment for archery deer hunters includes (top) a tree stand, and, from le The bowbender's aroma is dis- extra bowstring, sharp knife, buck lure, face stick, finger tab, hone for broadheads,

herd. Deer are creatures of habit that come out to feed in fields or open areas during the late afternoon, browse all night, and return to bed down in the thickets during with bow and arrow this seas the daylight hours. Deer using the there are certain safety prece Calls are made for ducks, crows, same trails to and from food and tions that you cannot afford

Preseason scouting, locating of that is damaged will decrease ried on a string around the bow- deer herds, and year round prac- curacy and is obviously danger tice on a good field course will pay to the shooter and his companio in front of the hunter a bawl on off this month. Be prepared to Bow or bowstring damage is d hunt Iowa big game and have a gerous and often frustrating. T

Trout seldom spawn success-The how and where of deer fully in still waters of a pond. the target, do not release the Doubles, where two targets are hunting is determined by the locale However, the largemouth bass row. You can't think an ari



If you are planning on hunti

Never use imperfect equipme An arrow shaft, nock, or featl equipment never breaks except the most inopportune time.

If you cannot see all the way "around" a shrub, cow, or fri once it is on its way.

Never nock an arrow or drai bow if someone is in front of ) Loaded bows sometimes go accidentally, too.

Sharpened broadheads and fi points will inflict painful wound they slip from the bowstring are fallen on during one of the exciting moments. Respect all rows.

You don't cross fences \ loaded guns so why be careless try it with the bow and arrov

Archery and bowhunting are joyable sports for the whole f ily. Safe, sensible bow-bendin the most fun.

The pika is one of the few m mals rugged enough to spend entire life in the chill, high, ba mountains of the west.

The pigmy sperm whale grow a length of from nine to 13 fee

