

Voine 21

March, 1962

Number 3

NYSTERY AND BEAUTY—SPRING GOOSE FLIGHT



Carol Buckmann and Jack Musgrove, Curator State Historical Building

ing the broad alluvial flood of the Missouri River, cars to along the highways, cameras ard ocked, binoculars scan the sky high overhead, at times y distinguishable, is heard a ow out growing Au-unk, Au-unk, as if the "waveys." Mother Naas she has done for centuries, out to present the most specar mystery the world over.

swing.

braving the mid-March chill, for the flock. Their numbers increase crop. Then the small groups resilhouetted against a flaming late and the spongy ice of the lake turn to the concentration, and are flight of the waveys. Lazily they of thousands of birds. small flocks like strings of beads birds still come, flock after flock, Some flocks continue northin the sky.

break into smaller ones, all over- there is no end. Here they rest tinue to come and the concentralapping and stretching for miles, and feed on waste grain before tion increases until the peak is Then, as if by some prearranged continuing their 2,600-mile flight reached from March 15 to 20 then signal, they break formation, to their Baffin Island breeding gradually decreases until all is swing and slideslip or tumble like grounds. falling leaves, losing altitude rap- One can watch them congre- around the first of March or the 3 low hum of beating wings idly as they head downward and gated in tightly packed groups, last week of February. ases to a loud whir and the prepare to light. Descending from watch them take off to feed in the Until recently, the flights of or of thousands of voices the sky, necks extended, wings morning and afternoon in some these birds went almost unnoticed in your ears—the migration thrown back and coral-pink legs nearby cornfield on waste grain. except by people in the vicinity, e blue and snow geese is in searching for solid ground, they They swarm around the ground and the lives of these birds had

Then comes the reward for their momentum and settle with ing up what remains of last year's afternoon sky comes the evening sinks beneath the combined weight replaced by others shuttling back

come, in long lines, broken V's and Then after darkness settles, the feeding grounds. the concentration increases, some- ward not stopping with the con-The irregular V formations times over 50,000, until one thinks centration. But the flocks con-

take two or three steps to break working through the fields, clean-

and forth between resting and

still. The first flock usually comes

(Continued on page 19)

Iowa Conservationist

Vol. 21

Published monthly by the State Conservation Commission, East 7th and Court, Des Moines, Iowa. Address all mail (subscrip-tions, change of address, Form 3579, manuscripts, mail items) to street address above.

Subscription price: two years at \$1.00 Second class postage paid at Des Moines, Iowa

(No Rights Reserved)
NORMAN A. ERBÉ, Governor
GLEN G. POWERS, Director
JAMES R. SHERMAN, Editor DENNIS L. REHDER, Managing Editor CAROL BUCKMAN and STAN WIDNEY, Contributing Editors

MEMBERS OF THE COMMISSION CLYDE M. FRUDDEN. Chairman......Greens

A. N. HUMISTON, VI	ce Chairman Cedar Rapids
SHERRY R. FISHER	Des Moines
GEORGE H. MEYER	Wilton Junction Elkader
ROBERT E. BEEBE	Sioux City Fontanelle

CIRCULATION THIS ISSUE.

COMMISSION MINUTES GENERAL

Travel was authorized for three people to attend the Mississippi Flyway Council at Biloxi, Mississippi, February 26-27.

Travel was authorized for two people to the Missouri Basin Inter-Agency Committee at Omaha, Nebraska, February 15.

Travel was also authorized to the North American Wildlife Conference at Denver, Colorado, March 12-14 for six people.

Five people were authorized to attend the National Rifle Association National Convention in Washington, D. C., March 31-April 5.

Two people were authorized to attend the Great Plains Fishery on a beach on Ingham High Lake. Meeting at Bismarck, North Dakota, March 1 and 2.

Travel was authorized for four people to attend the AACI Annual Meeting in Provincetown, Mass., on June 4-7.

Three people were authorized to work at the Omaha Sports Show. February 19 through 25.

cussed and the Commission author- need. ized exhibit planning for out-ofstate sports shows.

ministrative Assistant with a sal- be used as a recreation area. ary on a level of a superintendent.

Bruce Stiles, was approved and Dr. Humiston and Jim Sherman along the Cedar River at a cost of were appointed to plan the placing \$3,000. An island is included in of this memorial.

Travel authorization was given the Director to go to Washington, D. C., in February.

Authorization was given for the Traveling Wildlife Exhibit to show at the Fish, Game, and Conservation Commissioners' International Meeting at Jackson Hole in Wyoming in September.

Approval was given for various

series and maps dealing with re- Park to be used as a botanical and similar to the 1961 seasons and the Yellow River Forest Are

with the Governor's Tourism Committee.

PARKS

The recently acquired prairie area near Guthrie Center was officially named the Sheeder Area in honor of the Sheeder family which had the foresight to preserve this small remnant of Iowa prairie.

A delegation from Burlington asked for permission for the Y.M.C.A. to create a beach area on Geode for their use. The Commission requested further study on this proposal.

A request of the State University of Iowa to hold a camping workshop at Palisades-Kepler State Park, August 12-18, was approved.

An option was approved for 80 acres at \$225.00 per acre for Lake Anita located in Cass County.

WATERS

Departmental rules on navigation were rescinded to prevent duplication of Administrative Orders.

A permit was granted for the Highway Commission to construct bridge on Highway No. 218 over the Skunk River in Henry County.

The Flint Creek Levee District in Louisa County was granted permission to riprap along the Iowa

Various adjustments in the accounts of the Waters Section Budget were approved for the balance of the fiscal year.

Approval was given to the Iowa Conference of Seventh Day Adventists for a permit to place sand

The Director was authorized to investigate an impoundment on Indian Creek near Council Bluffs to be built by the Army Engineers and the Director was ordered to give his approval if his investigation indicated no adverse effects.

The Director was authorized to modify Dock Permits Policies when Sports Show Exhibits were dis- permit holders show reasonable

COUNTY BOARDS

Black Hawk County received ap-Subject to the approval of the proval for a purchase of 26 acres Executive Council, the Director at the east edge of Evansdale, a was authorized to hire an Ad- suburb of Waterloo, for \$11,000 to

Black Hawk County also re- mum of development planned for A memorial to former Director, ceived approval for an addition to Black Hawk Park of 70 acres camping area for boaters.

> Delaware County received approval to acquire a Dunlap River Access of one acre as a gift from Mr. and Mrs. Herman Dunlap for use as a parking area.

Jackson County received approval for an addition to Bellevue Roadside Park of 20 acres at a cost of \$80 per acre.

changes in the make-up of the for acquisition of Dark Hollow sists of 34 acres. IOWA CONSERVATIONIST magazine, consisting of a gift of 150 acres The Director of Public Relations from Mr. Sutherland C. Dows, lowas instructed to prepare slide cated adjacent to Palisades-Kepler lations were approved, which were work program for 40 prisoners gional tours in Iowa in cooperation biological preserve with a mini- regulations.

THE MUDDY PICTURE ON THE MISSOURI RIVE

Jim Sherman

The Missouri River extends for 192 miles along the western boundary of Iowa. During the 1930's the U.S. Army Corps of En neers adopted a permanent channel design for this stretch of rive This design included many sharp loops and turns which were intended to slow the velocity of the river and help control erosion. The bounds compact between Iowa and Nebraska was based on this design placement of the river which was far from a straight line.

Ice damaged or removed the pilings which established and man

tained this irregular course of the river.

During the 50's a new channel design between Council Bluffs at Sioux City was adopted. This new design eliminated many of curves in the channel. Fourteen of these curves were large enough form lakes after the river channel was diverted to a straight line. I to the narrow, semi-circular outline of such lakes, they are usual called oxbows.

Eleven of the oxbow or cutoff lakes are on the east side of t present course of the Missouri River. Three of the eleven oxbo were silted full within two years of their creation.

Eight oxbows on the east side of the river still have some reco ational potential. Five of the remaining eight oxbows are partially through siltation.

Only three of the oxbows lie entirely within the boundary of low Two of these, Tyson Bend and California Bend, were lost from siltation in 1960.

Winnebago Bend, seven miles southwest of Sloan, lies entire within the state of Iowa. The Conservation Commission is now on sulting with the army engineers in an attempt to devise a program which will prevent siltation of this 700 acre lake.

Seven lakes with a potential for recreational development lie part in Iowa and partly in Nebraska. They include Dakota, Snyde Glovers, Omaha-Mission, Blackbird, Tieville, and Middle Decatur Bendi What is being done to preserve these lakes and develop them

public use? The 59th General Assembly appropriated \$75,000 for Missouri Rive

development.

On the east half of the old channel Iowa owns the stream bed the high water line and the islands therein. The west half of the channel does not belong to the state of Nebraska but is the properly of the Nebraska riparian land owner. The Nebraska Fish, Game, III Forestation Commission has recently begun a program of buying IGHT_ shoreline and oxbows on its side of the river. The Iowa Conservation Commission has bought access to Tieville and Middle Decatur Bents II and has already installed boat ramps and docks. The Iowa Commission and s has acquired options for access areas on Snyder, Winnebago and Tel into the Middle Decatur. Protection from siltation on these seven lakes still extra groun awaits joint action by Iowa, Nebraska and the federal government was Obviously the lack of settlement of the Iowa-Nebraska boundary prob my during lem has complicated the job of preserving these areas which lie partly to the long in Iowa and partly in Nebraska.

Major island areas (about 500 acres each) created by the chame in the winter change include Wilson Island, Deer Island, and Tyson Island. The I coasts of I Conservation Commission has now started development work on Wilsoll The breeding Island. This area will provide camping, picnicking, river access, and the building hunting. The Iowa Attorney General's office has court suits pending the Winter in an effort to establish state ownership of seven other island areas. The them

Time alone will answer the question, "Are these measures adequal a language and a to save the Missouri River for outdoor recreation?"

proval for development plans for the Conservation Commission of the two access areas on the Little which requires the approval of the little which requires the the purchase and will be used as a Sioux River called the Martin Director's office for such activity some since Area and Nelson Area for use as river access and picnicking.

> proval for a development plan for Bobwhite Quail was approved. the Joinerville Area for use as a boat launching area, parking area, pienicking, and camping.

Assignment of the Copple Option at Snyder Bend on the Missouri River was approved for Linn County received approval Woodbury County. The area con-

FISH AND GAME

A Commission Policy was estab hacker it's lished concerning game bird feed ribward" has Cherokee County received ap- ing programs and participation of the Secret

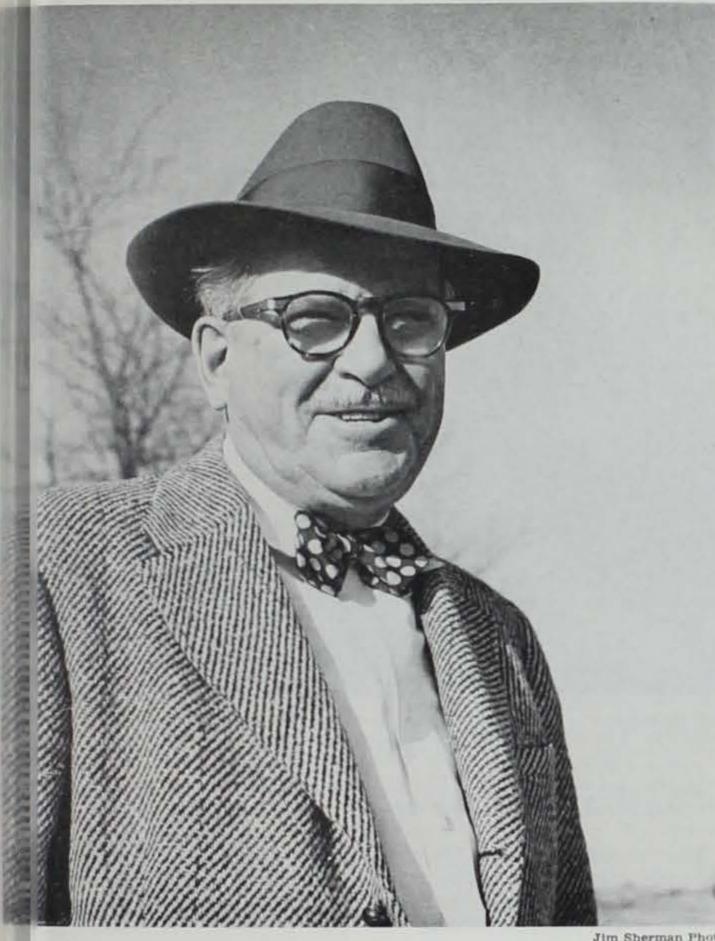
Experimental stocking of gam in the Pebru birds including Iranian Blackned the on the Jackson County received ap- Pheasants, Reeves Pheasant

A policy on holding wild det the becomes by public institutions was a proved.

Hiring of a Unit Game Manage a start for the Coralville Game Unit wa approved.

FORESTRY

The State Forester gave a "W 1962 fishing seasons and regu- port on a study which provides the Prison Camp for the next 20 year



J. N. (Ding) Darling.

Jim Sherman Photo.

HT-

(Continued from page 17)

e breeding grounds on the Lake and Noble's Lake. tundra of Baffin Island, mi une.

tells the birds "spring is ap- City. hing, it's time to move ires man's imagination as it lone since his beginning.

the western Iowa border, concentrations of ducks and geese. ir becomes filled with restlessring grounds.

orarily by severe weather.

The Flight in Iowa to four weeks in Iowa. Areas vicinity.

where the birds are feeding will be inhabited for several days beclothed in mystery. For years fore moving northward. The first he lue and snow geese disap- stop-over is usually on the bottom d into the arctic and their lands west of Hamburg. Shortly ing grounds remained un- afterward, they move near Percival or to Forney Lake. Then they y during the last few years next appear at Kellogg's Slough the long pilgrimages of these south of Glenwood. From here they and their flights been charted move on to Green and Manawa the wintering grounds on the bottoms south of Council Bluffs. oasts of Louisiana and Texas Some continue to Honey Creek

The next large concentration is wir winter winds and grinding seen near the Onawa-Turin area eet them on their arrival in or around Grant Center. The last concentration occurs in the Horsecret igniting the spark nick-Lutin area south of Sioux

Although the largest concentraward," has long baffled man. tion is found in western Iowa, any Ne re's secret is well-kept. The body of water will hold its quota. my ery of the great migration The Mississippi River bottoms, inland to the Riverton Area, Odessa, Conesville, Bays Branch, Browns mid-February, while ice re- Slough, Colyn, Des Moines Reseron the ponds and streams voir, Sweet and Big Marshes and and snow still covers the hills Lakin Slough usually offer good

These areas are easily accessible around the warm coastal by hard-surfaced roads and in thes of Louisiana and Texas. most places it's possible to watch birds start to congregate in the geese from the highway. the warm southern sun of their Sticky black soil in these areas makes unsurfaced roads almost anxious are they to move impassable, so stick to hard-surward that the first flocks fol- faced roads. Information regardon the heels of retreating ing the flights, location of concener and are often forced back trations and the best route to follow can be obtained through the Conservation Commission or the e leisurely flight usually lasts local conservation officer in the

J. N. (DING) DARLING

Although 12 years have passed since Jay Darling retired as the Register's cartoonist, he continued to come frequently to his studio in our building, and he never lost his buoyant interest in people and causes.

So to many of us who had worked with him he still seemed a member of the staff when he died Monday morning.

It is tempting to speak of him now in eulogistic terms, but few things would have embarrassed him more than a eulogy. And nothing we could say now would add to the prestige and stature of an artist who had been recognized for decades as a leading American cartoonist, who had twice been awarded the Pulitzer prize, and whose position was established, long before his death, in the tradition of the great cartoonists and satirists reaching back from Thomas Nast to Daumier.

It seems, therefore, a more appropriate tribute to try to identify some of the characteristics of Ding's achievement.

Those who worked close to Ding were always impressed first by how hard he worked. Everyone knew he had great talent-talent that few men are privileged to have. Only those who observed him knew that his working habits, his intense concentration, the exacting standards he set for himself, were as much responsible for his success as his talent.

Several times during his career, Ding used as a theme the thought that the American continent was not developed with a 40-hour week. He did not mean that he wanted to turn back the clock to the 12-hour day or the 7-day week. It was his way of stating vividly a deep conviction that there can be no creative production without a respect for work and a satisfaction in the performance of it.

No one had to work close to Ding to know that he had integrity, strong convictions and the courage to express his views. He once said, "My convictions may not be worth much to the world, but they are my own, and if I am going to go through life expressing anybody's convictions, they are going to be mine."

It was this quality which gave force and vigor and originality to his work and made him a major influence in the life of his era. Whether readers agreed with him or not, they found him provocative.

Along with his forthrightness and courage Ding brought to his drawing board the supporting virtues of humor, tolerance and perspective.

His satire could be sharp. He could puncture a pompous figure with a few strokes. He could quickly ridicule a silly idea. But he rarely drew in anger. He once said that he had made it a practice to stay away from the drawing board when he was angry.

Justice Oliver Wendell Holmes once wrote, "It is required of a man that he should take part in the actions and passions of his time, at the peril of being judged not to have lived."

No journalist has more vigorously, skillfully and joyously taken part in the actions and passions of his time than Jay Darling.

Above everything else, Ding had a wonderful zest for living, a love for people, a delight with the world. It was characteristic of him that he could not think of leaving without a final, warm goodbye which we print in his old place on the front page this morning.

It is never possible to measure the influence of an articulate man who speaks his views forcefully, and we will never be able to measure the influence of Jay Darling. All we know is that because of him millions of people have looked at the problems of our times from a fresh point of view, with a sharper perspective, a new insight. And we know that influence of this type does not stop when today's paper is discarded. It goes on and on subtly into the future, its origin perhaps forgotten but its force forever effective.-Reprinted courtesy of the Des Moines Register.

be small groups of white-fronted caused it to move on to more geese and an occasional V of suitable areas. The wary, cau-America's largest goose, the Can-tious bird is common on both

The white-fronts are distinby their laughing call, slender able. build and stiff-necked flying manner although the size is similar.

The bomber-like Canadas are larger than their cousins, with sedate flight, glistening black necks and broad wings. This most important of the North American geese is headed for its northern North American breeding grounds, often arriving in Iowa the first part of March.

Among the flocks in the air will drainage of its old haunts have rivers and inland areas remaining in well-secluded areas as long as guished from the blues and snows there is food and open water avail-

Through the goose flight are seen small groups of ducks darting with rapid wing beats and interrupted flight. They look like dwarfs compared with the geese.

To see the birds in their spring courtship regalia and mating plumage, to hear them actively calling to attract mates and to thrill to the magnitude of nature's wild creatures performing their centuries old migratory task without regard This is the only goose known to for the bustle of civilization is a breed in Iowa. Cultivation and never-to-be-forgotten experience.

SELECTING YOUR HANDGUN

Jack Kirstein

Rapidly increasing in popularity, handgunning fills the need of the sportsman in many ways. The decided disadvantage of carrying a short-barreled, hard-to-shoot firearm is more than made up for by that exhilarating feeling when you bring home your first bushy-tail or long-eared speedster and proudly state, "I got 'im with a pistol."

Of prime importance is the choice of type, kind, size, and caliber of your sidearm. To get the most out of the sport, it is important that you are equipped with a weapon that fits your hand well, is accurate, doesn't cost so much to shoot that you neglect the allimportant practice, and above all is safe.

The various guns available fit different hands in different ways. The best method of choosing is to revert to the old time-worn gimmick of putting the gun in your hand, selecting a target mentally,

If the fit is good, you should be themselves. nearly on target when you open your eyes. Another test is to take the gun in hand, look in another direction and after getting what In considering caliber, economy feels to you like a comfortable spells only one thing, the spunky grip, look back to see if the barrel little .22 caliber rimfire. Easily the forms a straight line with your most available handgun fodder, the forearm. This will permit you to .22 permits the beginner to pracimprove your accuracy by a large tice to his heart's content at nomipercentage. Should the barrel line nal expenditure. This is only one fall to one side or another, it will facet of the .22; it is also the ambe necessary for you to turn your munition least likely to blow your fist in pointing the gun causing a fur or feathered trophy into an

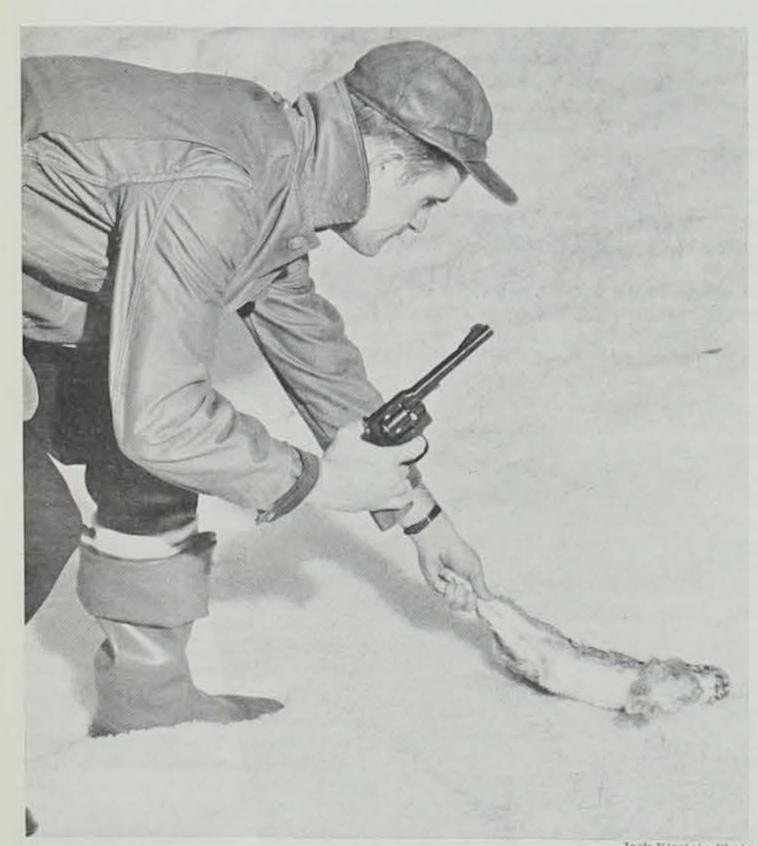
This, coupled with the kick of the gun in recoil will send your shots where you don't want them to go.

Most American-made handguns can be counted on for accuracy as well as having some kind of sight adjustment to change when they are not. Generally, the better guns provide some means of adjusting for both windage and elevation. This may be in the form of a sliding sight cut into a slot in the barrel or frame itself, adjusted by tapping lightly with a hammer. This kind of sight adjustment dates back to the early frontier days when a single action Colt cost \$18. of this, \$17.50 was for the gun and the other 50 cents was for the hammer to adjust the sights.

Many high grade guns offer easily adjustable front and rear sights, and if you want to become especially proficient in handgun shooting, these guns will be well worth the extra money they cost. Their adjustment is usually by means of close your eyes and point the gun. small set-screws in the sights

What Caliber?

Economy comes in many forms. strain on your forearm muscles. unrecognizable mess. We suggest



The single-action revolver is a good all-'round field gun. A long barrel will provide greater accuracy than short ones. Rabbits and squirrels are good targets for a pistol.



The automatic is a fine range gun, but is demands careful handling since it loads will matically. A good handgun will add a lot to your outdoor recreation all year-room

that the .22 is the best all-around safety is on, and not always the target, hunting, and plinking choice In general, automatics do 100 in a pistol.

The main difference in the accu- thing that is or is not built into racy of a rifle over a handgun is gun. Complicated in construction the fact that the rifle barrel is the automatic will not forgive longer. This in itself does not sloppy care. They must be kep improve the accuracy, but since clean, and many gunsmiths # the front sight is necessarily on rich "unjamming" automatics will the front of the barrel and the nothing more than a clean rear sight on the rear, it means and a little cleaning solvent. that the sights are farther apart and therefore easier to align without error. Elementary as this may sound, many beginners forget this in choosing a handgun. The longer the barrel on your pistol, and the farther apart the sights are on that barrel, the better your chances of hitting the target, be it live or simulated.

Automatic

The automatic weapon usually er loading of the cylinder, the provides more shots per loading, necessity of cocking or "extra-It takes less strength in the trig- pulling" of the trigger to align 3 ger to operate. Loading is done loaded chamber with the barrel for beforehand in the use of extra firing, and the carrying of the gui clips. This means that in a couple with an empty chamber under the of seconds you can take out the hammer all add up to a long pleas. empty and insert the fully loaded urable life for the owner, not to clip. If you plan to take up formal mention his friends and compantarget shooting, it is almost a ions. must. Rapid fire and timed fire is easier with an automatic as it hammers many years ago, the reis always ready with another shot volver has become practically imafter firing giving you the extra mune to accidental firings. Even split second to do your sighting so it should always be treated will rather than pulling a cylinder the respect due any gun. around into alignment with a lit- Accuracy is kept longer in re tle extra force, which may throw volvers than in automatics of the

the automatic is the ideal gun. In frame of the revolver, instead o some instances it is. However, the on a moving slide as is the case automatic is not a gun for you if with automatics, which in fine you have a heavy trigger finger, war down and get loose causing Since it unloads and loads itself slight misalignment of the sight without help from you, it is at all Either type of gun, revolver times ready to fire with only the automatic, can be for you. Will slightest pressure on the trigger, a bit of study and practice you to Automatics are only safe when the become a handgun shooter.

jam easily. Jamming is not some

Revolver

The high-rated revolver enjoys wood ducks a great deal of popularity. Rang is for other ing in its capacity from five to be new nine shots at a loading, and being Wo areas a almost indifferent to a reasonable h these amount of dirt in its action, it still the Branch provides the biggest portion of Moines an pleasure to the biggest portion of the the handgunners.

From the safety angle, the slow-

With the advent of rebounding

your front sight a little off target. same quality due to the fact that This may make you think that the sights are mounted on

have p for our The iem Can hit ch a situ ove into able than sites. Io inal area one time

cer of d

drainas

has taker

es away have. countr ant. We marsh ned, and h Where th OW We are thers of Ic ng full v 6 only a pared with Nakotas, M Canada esently, th

Iowa to

pintail, w

ing teal

We are

rage more

eir nestin of the ne

A MAN-MADE BOOST FOR DUCKS

Denny Rehder

extreme drouths of 1959 and have posed additional probfor our dwindling duck popus. The pothole country of ern Canada which furnishes he ulk of our ducks has been hit.

h a situation forces the ducks ove into marginal areas less ble than their favorite nestites. Iowa is one of these mai nal areas.

one time Iowa was a major cer of ducks, but the advent drainage ditch and the tile line as taken most of the little les away. In northwest Iowa ill have some of the original le country under state manwe have also tried to m marsh land that has been d, and have built marshes in where they were needed.

v we are trying to raise the ers of Iowa-produced ducks, ng full well that our efforts will e only a drop in the bucket ared with the production of the akotas, Minnesota, and southanada.

sently, the following species n Iowa to some degree: malpintail, wood duck, redhead, wing teal, ruddy duck, and We are making efforts to rage more nesting by study- still existing within the state. leir nesting habits.

of the newest innovations in ood ducks are old hat, but for other waterfowl are relanew.

) areas are being furnished these nesting boxes—the Branch Unit northwest of loines and the Ingham-High



This is probably the most popular style of predator-proof nest. Placed in about two

feet of water, it offers a safe nesting site for mallards and insulation from the sun.

The Conservation Commission hopes to find out if we can provide lay in receiving materials for the continuous study is an ex- artificial nesting sites for mallards er ent using nesting boxes to that will be used. Mallards are them over the water in time for t mallards. Artificial nests receiving the emphasis in this ex- use. The boxes have to be out as periment because they nest on the soon as the ice is gone. shoreline, along with pintails and blue-wing teal, and have little pro- Bays Branch Unit, baskets of tection from predators. Predation from skunks is the biggest problem of these shoreline nesters.

In order to hold predation down in the Iowa Great Lakes on these species, the Commission is

region. The Bays Branch Unit is a game management area of man-Ingham-High Unit is a part of the made and reclaimed marshes. The original prairie pothole country trying artificial nests placed over the water.

Last year at Bays Branch a deboxes made it impossible to get

At Goose Lake, a part of the woven wire and nesting material were placed in trees standing in water. Four of these baskets were used but there was no evidence of successful nesting.

It is difficult to find nests that are being used unless you scare up a hen. However, nests that have been destroyed are easier to spot, making it hard to get an actual picture of the overall nesting situation on an area.

The cylindrical nests are predator-proof when placed on poles standing in the water. This is an important feature, since 90 per cent of the duck nests in Iowa are destroyed by high water or predation.

In the Ingham-High Unit baskets were used at Buffalo Creek but we have no record of their success. It was found that the mallards seemed to prefer the baskets to nesting on the shoreline, and the baskets provided protection from skunks.

As the artificial nests are put out this spring, Commission personnel will be keeping a close check on their use. If such an experiment should prove successful, the losses from predation will decline, while the numbers of Iowa's home-grown ducks will increase.



Located at the Ingham-High Unit, these basket nests appeal to mallards. They offer protection from skunk predation.

POWERS REVIEWS 1961

Excerpts from a brief review of current projects and activities of the various Sections within the Conservation Commission, by Glen G. Powers, Director.

"The Biology Section is basically a research group whose projects include: state-wide population and distribution studies for Fish and Game; life history studies; habitat studies; harvest inventories; property management studies; cooperative surveys; cooperative weed and algae control; recommendations to the Director and the Staff of the Commission for management.

"One project that is bound to be a popular one is the stocking of pheasants in southeast Iowa. Here we have never had pheasants before and we felt that it was worth a try. If successful, such stocking would add much to the hunting recreation for this section of the state.

"Our biologists are responsible for the compilation of the Waterfowl Hunter Success reports submitted by all of our Conservation Officers and are continuing the age and sex ratio studies of waterfowl harvested in the 1961 season. While we had a very successful waterfowl season in Iowa, this 1:1 ratio of old ducks to young killed can mean only one thing, and that is that we are cutting seriously into the adult population and that the young duck population is seriously down.

"Our Superintendent of Federal Aid reports that since the beginning of the Federal Aid Program several years ago we have acquired from Pittman-Robertson funds some 22,963 acres of land at a cost of \$1,575,595.00; with Dingall-Johnson funds a total of 2,383 acres at a cost of \$175,-234.00; and from a combination of these two funds we have acquired a total of 5,077 acres at a cost of \$525,856.00. To date the total acquisition from these funds is 30,423 acres at a cost of \$2,276,685.00. In 1961 the total cost of the development projects approved was \$528,980.00. 75 per cent of this amount was supplies by the Federal Government and 25 per cent by the state Fish and Game fund. Currently we have 11 acquisition projects underway from the Fish and Game funds and 2 from D-J funds.

"The state-wide story on Fisheries was generally good for 1961. Lake water levels and stream flows were the highest in recent years. Special efforts were expended to keep carp from reconnected marshes adjacent to natural lakes and to stock desirable brood game fish in these natural nurseries.

"In Clayton County the Big Springs Trout Hatchery which includes a 10,000 gallon per minute cold water spring and 24 rearing ponds was acquired in 1961. Fish and Game personnel feel that this

(Continued on page 24)



st is typical of those to be used at s Branch Unit. It will be covered shes to provide insulation.

DUCK AND SHORE BIRD MIGRATION

Carol Buckmann

It's March and the snow and ice are beginning to retreat. This means three things to a duck or shore bird-move north, pick a mate and settle down with a family.

The waterfowl migration starts in March, continuing through April, while the shore birds, on their flight from South America, prefer to make their Iowa appearance in warmer weather, arriving from April to May.

In their order of appearance, the anxious pintail leads the procession. Although most of the ducks prefer March and April to make their Iowa debut, February is spring to a pintail. Among the earliest to migrate, they move in from their wintering grounds as soon as the ice begins to break. The height of the flight comes in March with a few stragglers still seen in April.

Pintails nest from the northern spring migrants, they occasionally plied with aquatic vegetation. nest in northern Iowa, sometimes winter.

can show up anywhere depending the summer. on the retreat of ice on smaller gration is in March.

Mallards winter in practically all of North America south of Canada where there is suitable habitat, needing only an ample supply of food and water.

Mallards are joined by baldpates, gadwalls, redheads and diving ducks in the second week of March. The gadwall doesn't often arrive before the middle of March with the greater portion coming in late March and running to mid-April.

The greatest abundance of gadwalls is seen in the northern lakes region where they occasionally nest. Their cosmopolitan distribution probably makes them the most widely distributed duck.

Like the gadwall, the baldpates seldom appear before mid-March. Their flight lasts until around the first of April. Redheads and other early diving ducks, begin arriving as soon as the ice breaks, with the main flight coming through Iowa in late March to April 1.

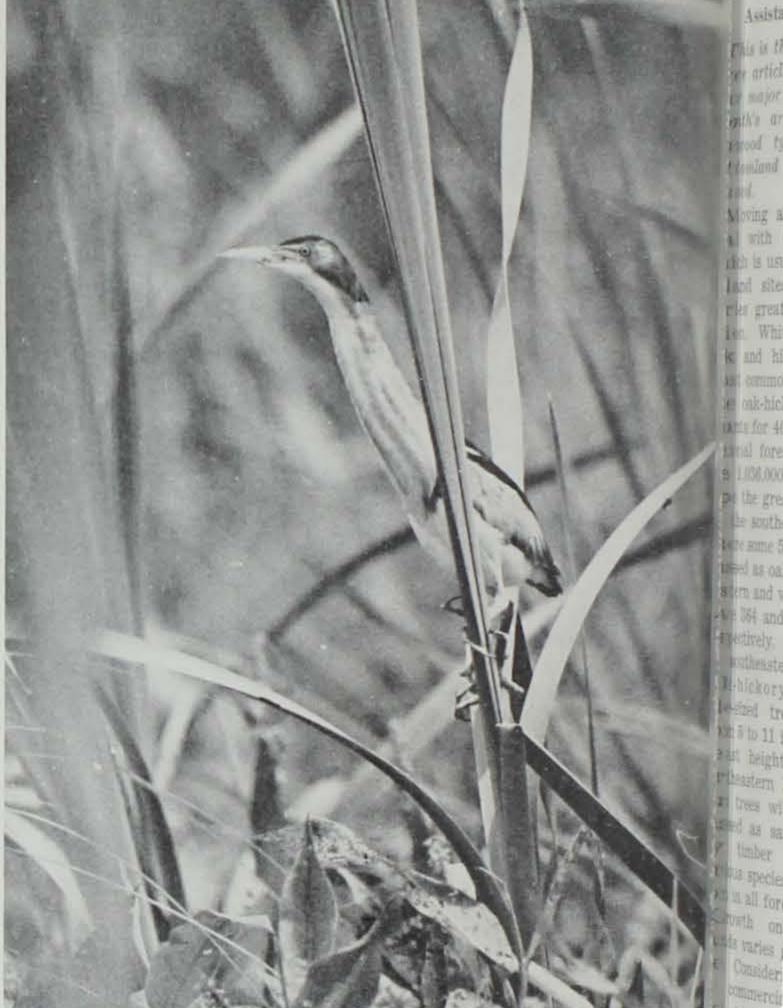
Canvasbacks are found in groups portion of the central states north- of their own species, but in migraward, making almost a circum- tion mingle with flocks of scaup, polar breeder with one of the ringnecked and redheads. This widest breeding ranges of the duck fairly common migrant is most family. One of the commonest numerous on deep lakes well sup-

The lesser scaup, found on remaining here throughout the larger lakes, rivers, small ponds and marshes, is the most common While the pintails are traversing diving duck in Iowa. April is the the marshes and fields, the Ameri- height of their flight but often can mergansers are moving into they are here in March, staying as the main bodies of water. (They late as May. A few remain through

Congregating on the first open lakes and streams.) They winter water of larger lakes and rivers in California, Louisiana and Flor- are the common goldeneyes. Ocida but are seen in Iowa as long casionally lingering until midas there is water and sufficient April, they are among the last to food. The largest part of the mi- leave in the fall, staying as long as there is open water and food.

Mallards join the pintail the Wood ducks are found in small second week of March. By this creeks, rivers, willow-studded intime, they are paired and often lands and wooded clumps in marshfly with black ducks and pintails. lands. In mid-March, they arrive

Jim Sherman Photo.



Least Bittern.

क्षा द्वारत

the gre

tothest:

hickory

e south

from Central Missouri and south- 15th of May. Most of them ern Illinois, still being seen in late found on shallow bodies of wal April. They nest along suitable mud flats and flooded fields, ploy streams and ponds throughout fields with about two inches

The waterfowl procession is areas where they can dig for nearly ended when the shovellers sects. pass through, followed by the blue-winged teal. Found in the birds are the lesser yellow le marshlands, small ponds and plovers, sandpipers and dowitch sloughs, the main flight of shovel- Shore birds remaining in Iowa lers is from the first to the tenth nest include the spotted sandpil of April, seldom arriving before killdeer, and upland plover, the middle of March. A common migrant, the shovellers sometimes monly seen from April to May, nest in small numbers in northern pearing in small groups of ter counties.

The caboose to the waterfowl wet plowed fields, rain pools. procession is the blue-winged teal. wet grassy areas where they Although a few may be seen as their prey out of the water early as mid-March, they usually from the surface. arrive after the first of April, with the height arriving around the in Iowa in May on the way to 15th or 20th. Iowa's most com- North. They swim in group! mon nesting species, the blue- 20 to 30, circling in a swit wings are the last to migrate in motion to stir up insects and s the spring and the first to return animal life from the lake bot in the fall. Any suitable blue- This is one case in bird life W wing habitat, such as marshes, the female is brighter than rivers, creeks, roadside ponds or mate. even puddles may harbor this late migrant.

Shore Birds

From their warm South Ameri- the shore birds. Coming from can winter homes come the shore Argentine wintering grounds birds on their way to the barren goldens swarm up the Missis arctic during April to the first or

standing water or drained ma

Among the most common sh

The lesser yellowlegs is C fifteen. They prefer shallow wa

The Wilson phalorope stops

In April, the black-bellied golden plovers arrive. Go plovers have the longest flight

(Continued on page 23)



Red-backed Sandpiper.

OAK-HICKORY TIMBER TYPES

John Stokes Assistant State Forester

is is the second in a series of articles dealing with Iowa's major timber types. In last h's article the elm-ash-cotaccord type, often called the mland hardwoods, was dis-

ving ahead, this article will with the oak-hickory type H 1 is usually found on the dry ned sites. This timber type as greatly in species compo-

White oak, northern red and hickory are the three common species in this type. oak-hickory timber type acs for 40 per cent of the comal forest land in Iowa. Of .036,000 acres in this timber the greatest concentration is e southeastern part of Iowa some 567 thousand acres are ed as oak-hickory. The northan rn and western parts of Iowa 364 and 105 thousand acres, etively. The stands of trees utheastern Iowa classed as hickory contain primarily ized trees (that is, trees 5 to 11 inches in diameter at t height), while stands in eastern Iowa generally contrees with larger diameters d as sawtimber. Oak-hicktimber stands containing Is species mixtures are comn all forested areas of Iowa. wth on the oak-hickory s varies greatly from site to Considering oak, because of ommercial importance, we unmanaged stands average 75 to 150 board feet of h per acre per year. Studies of the however, that after a first ies of all order good management pracfields led he growth rate will increase rd to one-half. Under conrained unr I managed cutting periods n dig the rowth rate has reached 300 feet per acre per year. This complished by putting the yellow h on good quality, fast-grownd down the ees.

azing a Serious Problem

ig in i

ted su

hter !

rrive

plover na

ses in growth result from factors such as wild fire, e, and insects. Perhaps no il to actor reduces growth in the oups of all lickory timber type more shallow has does grazing by livestock. r cent of all forest land in is heavily grazed to such an t that young trees are not it in sufficient numbers to the timber stand in continproduction, 80 per cent of rest land is grazed to some e. While the area will rein timber the stocking and y of trees are adversely afby grazing and the resultosses in growth from these are enormous in the state as ole. Grazing causes damage sized trees because due to a of adequate forage the anibrowse on the leaves and of young trees. The soil is

(Continued on page 24)



No grazing here! This ungrazed oak-hickory stand has a good undergrowth of young trees and will provide a steady periodic income to the man using sound management techniques.

DUCKS-

(Continued from page 22)

flyway to the arctic breeding grounds. When the young are able to care for themselves, the adults head for the coast of Labrador where they grow fat preparing for their flight back to Argentina. They fly down the Atlantic coast back to South America while the young use the Mississippi flyway and must find their own way back to the Argentine grasslands.

Upland plovers are found in Iowa in flat level grassy areas. They fly low over the meadows, giving a whining, eerie call. Their erratic migration sometimes finds them nesting here, becoming abundant at times and rare at others.

There are a number of large, rare birds occasionally migrating through Iowa. Among them are the American avoset and Hudsonian arctic. godwit, western willet and longbilled curlew. These large birds are never very common as they head for their Canadian nesting grounds.

Pelicans and cormorants have a spectacular migratory flight in April and May. Sometimes on Little Wall Lake three to five thousand alight, but the pelican flight is headlined along the Missouri River. Cormorants follow the Mississippi River.

The courtship flight of waterfowl and shore birds is the highlight of the season to those who love the out-of-doors.

Coyotes are likely to give wide berth to a large dog, but will sometimes fight and chase a small one.

The coyote is strictly an American mammal, and in fact might well be termed strictly North American since so far as is known

Birds are able to sleep in perching positions without tumbling off a twig because of the way their toe grip automatically locks.

phalarope is larger than the male, ceedings. The male builds the its force. nest, incubates the eggs and looks after the young.

claw is attached a small comb, with which to preen his feathers.

The Arctic tern spends the northern summer in the Arctic and the southern summer in the Ant-

FROM MODEL TO DAMSITE

In order to cope with the problems of outdated spillways, the Commission's engineers build models to study water flow and behavior as it appears at the actual site.

A recent study has been underway for a new spillway at Lake Ahquabi. Such replacements are necessary at several damsites around the state because they have outlived their usefulness. Many of these spillways were built in the mid-30's and since that time water has gotten under the spillway, washing out dirt and making the structure unstable.

Engineers test water flow over and through a model built on a 1:30 scale. Water flow is figured for the model by formula so that it can be correlated with water flow at the actual site. Dyes are then used in the model to follow the flow pattern of the water.

Spillways are designed to handle water in excess of the desired crest elevation. A wier in the spillway acts as a dam holding water back until it reaches a certain level. The water then spills over the wier, flowing down a long chute to a stilling basin. A stilling basin must slow the water down and release it into the valley at an acceptable velocity.

Concrete blocks are used for the Unusual in bird life, the female water to hit and lose its momentum. Beyond the blocks is a has brighter plumage and takes cushion of water that further slows the initiative in courtship pro- it down and takes away some of

If the water were not impeded in its flow through the spillway, its turbulence upon reaching the The Chesterfield of birds is the end of the chute would cause it to great blue heron. To his middle dig into the earth underneath the chute, damaging the function of the spillway and eroding the valley into which it flows.

The engineers can use the information gained from the model study to determine the design of their wiers and spillways.



it occurs nowhere south of Costa Dye is used to test water flow. Models are a great aid in the design of new spillways.

OAK-HICKORY-

(Continued from page 23)

compacted by repeated grazing, causing root damage and rapid water run-off. Foresters generally encourage landowners to improve their existing pastures. Cattle require from % to 1% acres of improved pasture while the same animals require from 41/2 to 9 acres of average dense wooded pasture. Livestock raising is important on Iowa farms and through better land use it has been possible to have both better pastures and good timberland producing products for Iowa industries.

The oak-hickory type contains many of the most important commercial tree species in Iowa. The red and white oaks make up 45 per cent of all timber cut in Iowa. The sugar maple, basswood, elm, ash, butternut and black walnut are other species finding ready markets in Iowa. Unfortunately hickory, which makes up 8 per cent of the board foot volume in the oak-hickory type, does not find ready markets in Iowa. It finds limited use as rough lumber and in manufacture of pallets.

Due to continuing research the outlook for all species looks hopeful. More and more paper is being produced each year from hardwood timber types. New and economically profitable methods of pulping hardwoods are being developed.

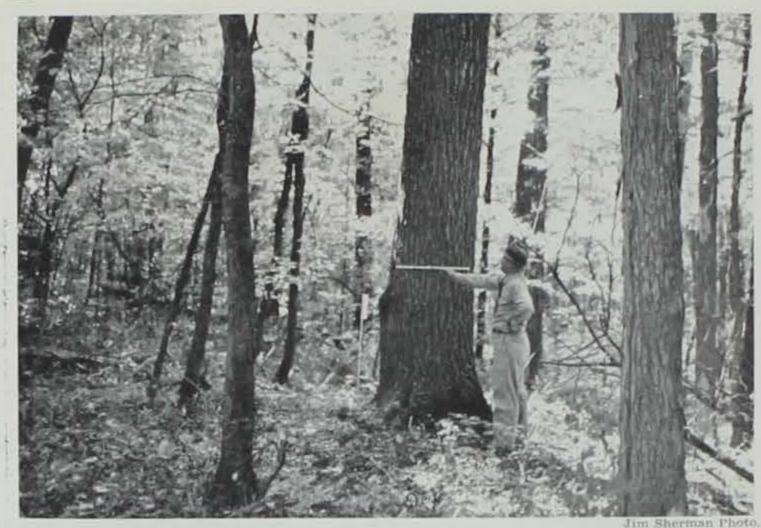
Oak is king of Iowa's forest. About two-thirds of Iowa's timber harvest is used for the production of lumber and railroad cross ties. About 40 per cent of the total lumber produced in Iowa is oak. Oak is important in production of cross ties and in the veneer industry.

Basswood, ash, butternut, sugar maple and elm are all important lumber species. The veneer industry also uses sugar maple, red elm and basswood. The softer hardwoods such as basswood and ash find markets in box plants and as crating and blocking materials.

What About Black Walnut?

Black walnut is perhaps Iowa's most important and most sought after species. It is found primarily in the elm-ash-cottonwood and development of the Paint Creek oak-hickory timber types. Veneer may be much higher than those lars. paid for top quality logs of orditrees.

logs harvested in Iowa are black composition found in the oak-hick- State Fair Exhibit. We completed total park attendance for the year walnut. Other important veneer ory timber type it is well for the a new movie called "Iowa's Hunt- of around eight million peof u species are soft maple 14 per cent, average woodland owner to request ing Heritage" and started its cir- Camping activity is still grown as oaks 13 per cent, other 11 per cent, the free assistance offered by the culation in 1961. I might mention and by the middle of the company cottonwood 7 per cent, and hard commission foresters. They will that this particular film had al- season we will have a total of the maple 5 per cent. The public fre- give assistance to landowners with most constant booking throughout modern camp areas in operatile quently hears about the high price timber management and market- the year. We are most happy to Sixteen of these were comple I black walnut trees bring, but no ing problems.



The quality of black walnut is difficult to judge on the stump. A tree like this with its straight, unbranched trunk will provide a profitable return to the woodland manager

POWERS-

(Continued from page 21)

purchase will assure economical in cooperation with the Fish and trout rearing to keep pace with Game Section, we are developing the anticipated population growth what I think will be one of the and resulting angling demands, outstanding recreational areas in On July 4, 1961, a new law re- the middle west. This is the forest quiring a \$2.00 trout stamp for area in which we carried out the

erated and managed 136 state- doing very well. owned Fish and Game Areas totaling approximately cated this spring.

volunteer instructors, and almost 6,000 students who have taken the four-hour training course. This program depends entirely upon service-minded volunteers serving as instructors without pay. Their only satisfaction is a worthwhile safety program for their community.

"Forestry activity picked up greatly during the year. Outstanding among their accomplishments was the beginning of the

log buyers search continually for to tree than black walnut. Such high quality black walnut trees or defects as excessive branching, logs. Frequently they purchase in- sweep, twisted trunk, swells, and dividual trees, in order to obtain other tree varies more from tree one or two prime logs, but most open cracks reduce log grade rapare supplied from regular loggers idly. The price difference between and sawmill operators. Prices prime and common black walnut paid for top-quality veneer logs logs can be several hundred dol-

Present veneer markets are seanary species, but top quality is sonally strong. Many black walvery hard to judge in standing nut logs are being marketed for export to foreign countries.

Unit of the Yellow River Forest in Allamakee County. On this area, trout fishermen went into effect. original wild turkey stocking and "In 1961 the Game Section op- I am happy to report that they are

"Our new Waters Section finally 60,000 got off the ground in 1961. Iowa's acres. Outstanding among the con- new Boat Registration and Navitributions by the Game Section gation Regulations and the Water last year was the development of Safety legislation were passed by several years. a new wildlife exhibit and game the 59th General Assembly. Boat experimental farm near Ledges registration this past year has State Park which will be dedi- numbered approximately 22,000. We anticipate that approximately the Waterfowl in Iowa book, put "Our Gun Safety Program is 20,000 boats now numbered by the progressing fairly well here in U.S. Coast Guard will be regis-Iowa. In 1961 we guaranteed 1,134 tered for the first time this year under the Iowa system.

> "The activities of the various County Conservation Boards in 62 counties were still on the upward trend. In the past year 85 land acquisition projects, 45 general development plans and 8 management agreements were approved for County Boards by the Commission.

"Our Land Acquisition Section continued our battle on the Missouri River throughout the year traveling exhibit is getting a 1961. Many surveys on the bound- of recognition. We have been ary of Iowa-Nebraska were com- vited to show at the Internation pleted and the title cleared on the at Jackson Hole this next summe land to the extent that we now and we feel that this is quite have some development underway honor for the State of Iowa to provide better access to the Missouri River.

ing Wildlife Exhibit showed to under way. The last session well over two million people in the the field. Exhibits were presented at \$650,000.00 for this program a la the Des Moines Register and Trib- last year we were able to Fa une Sports and Vacation Show and about 40 per cent of it completed also at the Omaha Sports Show. Park attendance was up last ye lo About 50 per cent of the veneer Because of the complex species An estimated 425,000 viewed our approximately 750,000, making to tell you, too, at this time that our last year."

REECE'S WILDLIFE PAINTINGS ON EXHIBIT

Painting by Maynard Rees nationally known wildlife artic will be on exhibit during National Wildlife Week, beginning March 11 and continuing through the 24th the East Portrait Gallery, second floor of the Historical Building Des Moines.

The building, at East 12th and Grand Avenue, will be open to the public from 8 a.m. to 4 p.m.

Reece has won several nation honors for his work. In 1948, 195 and 1959, he submitted painting to the annual duck stamp content in which competition is open to all artists, professional and ami teur. He is the only artist to have three consecutive paintings lected for use on the duck stamp

In 1948, his painting of bufflehead won the national awar King Buck, a Labrador, won the award.

Last year, Reece won the Roll Award presented by the Izuni Walton League of America for out standing work in wildlife illustration. The work of this widely no ognized wildlife artist has a peared in several magazines cluding Successful Farming, Betti Homes and Gardens, Sports After and Midland Schools, as well as the Des Moines Sunday Register to

Reece, who does work main for magazines and calendars, the color illustrations appearing lished by the Conservation Commission. His color illustration also grace the pages of the low Fish and Fishing book written and distributed by personnel of the Conservation Commission.

Reece, a former staff artist an museum assistant of the State Do partment of History and Archive has been free-lancing since 1961 He started painting at the age six. When he was a seventh grade his entry in an art contest at the Iowa State Fair won first place and launched his career.

"I hope many of you have " ticed that we now have a ve "In Public Relations, the Travel- active Park Maintenance Progra Legislature