IOWA CONSERVATIONIST

Volume 18

February, 1959

AN EARLY SPRING AT HOME SHOW

MORE PROFIT FROM FURS

The fur trapper or dealer who does his utmost to get his products into first-class shape before they are marketed stands a better chance of coming away with more "jingle" in his jeans, Harold Devine of Indianola, one of Iowa's top fur collectors, said recently.

Devine knows whereof he speaks. He has been in the fur business, either as a trapper or fur collector. for the better part of his 55 years. Like many, he cut his trapping "teeth" early in life. As an 8 or 9year-old lad, he tramped and trapped the area northwest of Indianola where he still lives. A few years later he began taking care of furs for other trappers. In time, he acquired a car and drove the countryside, picking up the furs of local trappers. That was the start of a side of the fur industry which today-some 40 years later -includes a massive operation involving hundreds of thousands of furs each year. Devine's customers now include about 40 dealers in the midwestern states of Iowa, Missouri, Nebraska, North and South Dakota, Minnesota, Illinois, Wisconsin and eastern Kansas. Several of Devine's former dealers have made the trek to the 49th state where the Indianola collector's knowledge of (Continued on page 111)



Spring in Iowa's woodlands will arrive a couple of months ahead of schedule for visitors to Des Moines' Home and Flower Show in Veterans' Auditorium the week of February 21.

Number 2

One of the features of the Iowa Conservation Commission exhibit at the annual show will be several varieties of blooming wildflowers and flowering shrubs. They, together with fresh greenery of ferns, mosses and lichens, will provide a colorful background for another exhibit headliner-a scale model of a rustic old mill. The mill has been carefully duplicated from the real thing. Detail of the mill is most exacting, right down to the turning mill wheel and moving water.

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Page The Balance of Nature _____ $_{-106}$ Quail Wings Tell A Story _____ __107 Skiing at Palisades Kepler _____108 New Fishing Regulations _____109 Seeing Iowa Parks in Winter _____110

George Toyey Photo

Dr. John Aikman, professor of botany at Iowa State, inspects a flowering shrub outside a botany department greenhouse. Some of the shrubs had to be moved outside to stall growth that had become too rapid in the warm, sunlit greenhouses.

Wildlife Week March 15-21

The week of March 15-21 has been proclaimed as National Wildlife Week throughout America by the National Wildlife Federation.

Since the first National Wildlife Week was proclaimed by President Roosevelt in 1938, the special week has been dedicated to various conservation themes. The 1959 theme is "Conservation in the Schools."

Four courses of action are open to citizens with an interest in bringing conservation into schools. suggests the Federation:

Make it your business to find out if conservation is being schools of your community. Start educational and publicity campaigns to show people the need for teaching conservation in their schools. Point out examples of resource mistreatment in your area.

Set up a conservation-education committee in your com-(Continued on page 110)

To bring a touch of spring indoors in the dead of winter indicates quite a project, but to give full meaning to just how gigantic were some of the problems to be overcome takes a bit of backtracking and elaboration.

Ray Mitchell, Superintendent of Parks for the Conservation Commission, huddled last month with Dr. Wendell H. Bragonier and Dr. John M. Aikman of Iowa State College. Dr. Bragonier is head of the department of botany and a professor of botany; Dr. Aikman, a professor of botany. The assignment? To help select the right time to bring wildflowers and shrubs from out-of-doors, and, using the greenhouse facilities of the ISC botany department, bring as many as possible to bloom during the Home Show.

Dr. Bragonier and Dr. Aikman make no claim that they are the first or the only ones to ever undertake such a project, but if such a problem had ever been successtaught in the grade and high fully handled by anyone before, the two botanists had no recollection of it. One thing is certain, Dr. Bragonier told us recently:

"It's the first time the Iowa State botany department has ever undertaken this kind of thing."

With advance planning out of the way, park supervisors, park conservation officers and ISC botanists rolled up their sleeves. Areas (Continued on page 112)

Inside This Issue

Page 106

IOWA CONSERVATIONIST

Iowa Conservationist

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FIRST SUBSCRIPTION CHANGE FOR CONSERVATIONIST

Effective with this issue. subscription rates for the IOWA CONSERVATIONIST will be changed as follows:

- The subscription price of 40 cents for a one-year subscription will be discontinued.
- A new two-year subscription rate of \$1 will be put into effect, replacing the former subscription rate of three years for \$1.

Editorially Speaking

The Balance of Nature

Herschel Bledsoe **Missouri** Conservation Commission

Most every man at some time during his life attempts to repair his watch or fix the family clock. A few men succeed in getting the thing apart and back together in good working order. But most end up with extra wheels and screws—and a watch or clock that is useless. They completely upset the balance of the instrument.

This same thing has happened when man interfered with the clocklike precision of the balance of nature. Too many times man has been quick to condemn and exterminate some of the so-called predatory said. animals without considering the consequences.

Take the fox. A farmer has a fine grain field, but along comes a Spirit in December and were regroup of insects that begin to ruin his crop. Nature then sends rats into this field to help control the insects, but they also eat the grain. Then the fox comes in and eats the rats-and, incidentally, some insects. The farmer decides the foxes are bad for his place so he exterminates them. The rats come back and he is right back where he started.

Each animal plays an important part on each acre of land, and when one species is eliminated the balance is upset and the wheel of nature fails to turn properly.

In the past, man has attempted to repair the spoke in the wheel he mind, reminds Rose. destroyed by re-stocking his lands with game and birds. But even this has not always been successful. If there is not enough cover and food for the birds, they in time will leave or die. If there are too many animals on a given area, disease or some other means will reduce these animals to the carrying capacity of the land.

This same thing applies to streams. It rarely does any good to stock fish in streams since nature produces more than the stream's carrying capacity will permit to survive, anyway. Thus, when man stocks a stream he frequently upsets the balance and the result is usually unsatisfactory.

Few animals or birds have the number of predators working against you fish under a slab of ice or midthem that Bobwhite quail do. From the time the eggs are laid and they start to pip, skunks, crows, 'coons, foxes, turtles, hawks, ants, dogs and cats are all working against them. However, given adequate successful in winter turn the trick

DECEMBER CATCH AT SPIRIT "VERY GOOD"

Anglers caught more and bigger walleyes at Spirit Lake in December than the same month a year ago, Earl Rose, fisheries biologist at the Spirit Lake (Orleans) station recently pointed out.

Rose kept a calculated total of the walleye catch on Big Spirit in December. His information disclosed walleyes averaged 2.5 pounds in weight, compared to a 2.1 pound average for December, 1957. Some of the fish ran in the six to ten-pound category, Rose

A total of 8,532 anglers were on warded with 28,000 hours of recreation, Rose reports.

One observation by Rose in his recent compilation is particularly significant to the walleve fisherman. Fishing under ice for walleyes is best when the lure is worked slowly - a technique the summer angler might keep in

It might also be pointed out that winter fishing is done over a relatively small area, emphasizing again the importance of sticking with a good walleye spot once it's located. Stick with that spot like glue-there's a good chance you'll take more after the first has been creeled. In other words, technique is more important than whether summer sun. It's good sport anytime, and often methods that are

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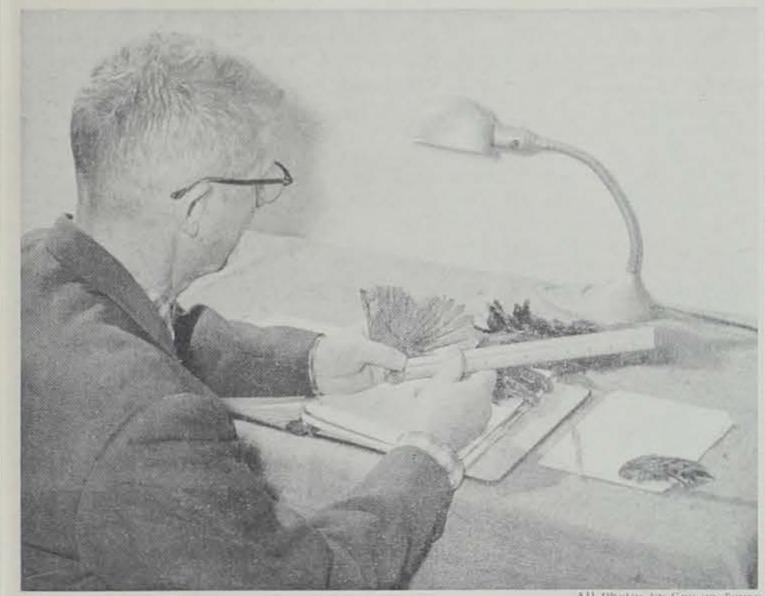
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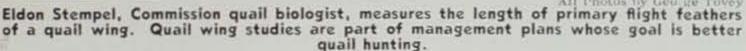
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IOWA CONSERVATIONIST has		produce. With poor food and cover,		
maintained the same sub-		-as well as adverse weather. Still, f the predatory species is doing all		
scription price of \$1 for three		hat species. Here again the results	HOW ARE TOO	
years (36 issues) since the		ur finger on just one predator and	GONNA' WIN?	
first issue of the magazine	say that it is the one responsible?			
in 1942. However, the costs	Some states have tried shipping	If the conservation officer asks		
of printing, paper and mail- ing have increased to such	areas that are depleted on these and	to see your license— HE'S INSULTING.		
an extent, an increase in		ind diseased and the situation was	If he takes your word for hav-	
subscription rates is an ab-		ke over the job of nature. Man is st work with nature. Otherwise his		
solute necessity.	projects often become as useless as		HE'S CORRUPT.	
Iowa is among the last of		the wheel of nature turn smoothly.	If he arrests a violator—	
the states to increase its sub-		when plans can be made to replace		
scription rates. Over the past		wheel. Lack of food and cover is		
several years and months,		and now is the time to locate such		
many states have found it		tood and cover on chose areas for	chance— HE'S SHOWING FAVORITISM.	
necessary to increase rates to meet higher printing costs.	the game or birds desired and let (hawk or owl or fox, he is there as	If he labors day and night to	
Some have had more than			enforce the law-	
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At the new rate IOWA		ones to lose that little thing-a-ma-	HE'S A SHIRKER AND A	
CONSERVATIONIST continues	bob that makes the great wheel of	nature turn.	CROOK.	
to be one of the greatest bar-	The tanir is the higgest animal	The bluegill gets its name from	If he talks fish and game con-	
gains in reading. The new		a small blue tab that extends back-		
rate of 24 issues for \$1 means a per issue cost of slightly	sought after by native hunters.	ward from the gill cover.	If he keeps quiet-	
more than 4 cents.			HE'S NOT INTERESTED IN	
In the future, as in the	Porcupines are excellent climb-	a financial and the second first and the second sec		
past, IOWA CONSERVATIONIST	ers and spend a good part of their		If he accepts suggestions— HE'S INCOMPETENT.	
will strive to bring sub-	lives in trees.	as they leave the nest.	If he acts like a gentleman—	
scribers the ultimate in read-	The North American elk is com-	About 70,000,000 pounds of wild		
ing enjoyment with more	parable in size to the red deer of		If he acts firm—	
news and more features of outdoor Iowa, including hunt-	Scotland.	in the United States.	HE'S UNFAIR AND A RASCAL.	
ing, fishing, parks, forestry,			Debu skuples are usually horn	
boating, and camping.	Some animals can glide through	Foxes have several calls, the commonest being a short, yapping	Baby skunks are usually born in April or May. Six is an average	
	the air for a ways, but bats are the only animals that can fly.	bark.	litter.	
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IOWA CONSERVATIONIST

Page 107





Development of primary flight feathers is shown in this photo of quail wings from birds of different ages. Wing at top left is from a bird 68 days olds. Wing at top right is from Bobwhite 93 days old. Wing at bottom left is from a quail at 127 days; bottom right, from bird over 150 days old.

Studies Aid Management

the last staunch point of the seacover has ebbed in the sporting breast, the game biologist sits score.

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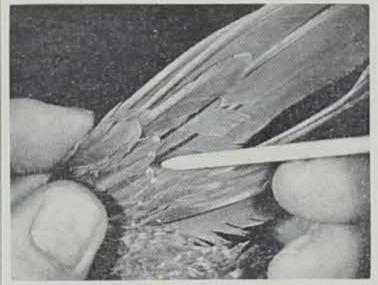
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The time is sometime after quail wing collections from sportsmen and conservation officers winds up, usually about January 1. Bobwhite wings, dozens of them, are systematically spread on the work space before the biologist. Hundreds more in sacks, bags and sundry containers are close at hand. Each receptacle bears a notation of the area where birds were bagged, and each awaits closer scrutiny of the biologist's trained eye. Reference tables, pencils, paper and a rule with a centimeter scale comprise other essential work gear. These also are within reach -even though not always orderly amid the clutter of pile upon pile of stubby wings. What takes place in the long hours required to examine the wings is a phase of research that tells much about the bobwhite. A count of primary flight feathers and comparison with reference tables helps the biologist determine the approximate age of the quail. Coloration of the covert feathers also is an age determinate. A small triangle of buff colors the covert wing tips of young birds. This coloration is absent in adult birds. Shape of feathers also is a clue to the quail's age. On young bobwhites, the first flight feather (feathers are numbered from the body toward the wing tip) is rounded; on adult quail, the feather is more pointed.

A month or so after the good ploys about the same wing investiand faithful quail dog has made gation techniques as those carried on in other states. Notations of the son and the heart-bursting thrill area where taken, date taken and of a bobwhite covey sputtering from sex of each bird are carried over to a quick-reference table where age is pin-pointed more accurately. down to scientifically tally up the The growing primary may then be measured to the exact centimeter to determine still more accurately the age of the bobwhite.



One of the feather characteristics the biologist looks for is coloration on the tips of covert feathers. This coloration will be



Shape of feathers also tells the quail biolo-

Elden Stempel, Conservation had hit the area in late July.

"From examination of quail wings, we can establish the earliest and latest known hatch. Earliest nesting apparently takes place in May, is in full swing in June, and at its peak in July. The hatch diminishes and is at its lowest point the first week in September. Occasionally we see some hatches in October, which indicates renesting of birds which lost their first broods," Stempel said.

The real value of wing studies, according to Stempel, is when this phase of research is carried on in conjunction with other observations such as sight and whistle counts and checks of dusting places.

"Research is an important part of the management of quail seed stock. It's a way of making sure we have information by reliable methods and not by guesswork," Stempel said.

There are both immediate and long-range benefits of wing studies when considered in the light of other investigations. Stempel has a ready example which shows how one kind of research verifies another.

A couple of years ago, Stempel made wing studies of birds bagged in the Albia area. Heavy rainstorms with high winds and hail

Commission quail biologist, em- Stempel was concerned, suspecting portant single factor in the suc- shooting during the season!-K.C.S.

lacking on adult birds.

北

that a severe storm coming at a critical time in the hatching period might have disastrous effects on bobwhites in the Albia area. Aging wings after the season verified Stempel's initial fears. Birds that were up to two weeks old at the time of the storm did not show in the hunter's bag during the season. However, wing studies did show some young birds in the bag, pointing up renesting and recovery from early season losses. The studies also gave Stempel an idea of the extent of the recovery.

Prepares Graph

Stempel also made a graph of the Albia area, prepared from his wing studies. The graph showed a decided dip in hatching that should August 5. One phase of research substantiated other findings to give Stempel a better picture of exactly what took place in the Albia area. space of one hatching season are

over a period of several seasons makes for better overall evaluation of the quail population and the problems involved in the management of Iowa's bobwhites.

the number of adult birds remains the key to the ultimate in bobpretty constant year after year. It white management. For the quail was once thought that the number hunter this means a pay-off where of adult birds was the most im- it counts most-in better bobwhite

gist something about the age of quail. Round tip at right is young bird; the more pointed one on the left belongs to an adult bird.



A rule with centimeter scale gives a more accurate measurement of the age of the Bobwhite quail.

cess of the quail hatch. However, we now believe that weather is the biggest factor in quail reproduction," Stempel said.

Continuing research on the bobhave occurred between July 27 and white has particular significance for the quail hunter. Naturally, the nimrod is interested in the number of birds he may find in the field and the reasons why he may Observations made over the find more birds one year, and fewer-or what may appear to be important, but studies carried on fewer-the next. There are other considerations, of course, but wing studies, correlated with other research, help give a more precise picture of quail from the nest to the sportsman's bag. And, over the "Wing studies have revealed that long haul, perhaps, it will provide

IOWA CONSERVATIONIST

Slalome! New Word at Park

Dr. Gordon Rahn of Mount Ver- has been heartening to the opernon started for the ski slopes of ators of Ski-Pal. Many favorable Winter Park, Colorado, recently, comments have been directed to but barely got out of his own the operation, Dr. Rahn said rebackyard! cently.

At face value this may sound like a disappointing turn of events, particularly for such an ardent skiier as Dr. Rahn. But in this instance, such just "ain't necessarily so." Instead of going to the kind of terrain that offers skiing, Dr. Rahn brought skiing to himself and a good many other Iowans with the opening of the Mount Vernon Sports Club's Ski-Pal Lodge in Palisades Kepler State Park west of Mount Vernon.

Page 108

Dr. Rahn, who has made many ski outings to Winter Park and the popular slopes of Cable, Wisconsin, was never quite satisfied with the long hours involved in reaching such places. It took too much time going and coming and left too little for skiing. So instead of his usual trip to Winter Park this year, Dr. Rahn conceived the idea of bringing skiing closer to home.

Things had to move pretty fast to acquire facilities and get the ski trails in shape for use this winter. On January 6, members of the State Conservation Commission met with Dr. Rahn and discussed the operation on the tree-bordered slopes of Palisades Kepler. Commission action resulted in approval of the leasing of the Palisades Skis, ski poles and other equip-Kepler lodge for use as a ski lodge ment are of similar quality. In adduring the winter months. Ski-Pal swung into operation almost immediately and the order went out for a ski tow. On January 8, Dr. Rahn outlined the layout of the ski slopes to commission members and fine points of the sport. Lights received approval for them. Ski-Pal had its first open night January 9. The turnout of skillers and spectators on opening night take care of the many who come and about every weekend since to watch the proceedings.

"Skiers particularly like the idea of skiing during the afternoon and night and still get home in good time," Dr. Rahn said recently.

The Ski-Pal layout includes five runs served by two ski tows. The beginner's tow and trail is most popular-at least for now-although the other slopes test the skills of intermediates and even the better skiers. The beginner's layout is a 30-degree slope, 200 yards in length. Broken Tree run is 400 yards long over a 45-degree slope. Rahn's run, named for Ski-Pal's originator and manager, is a 600-yarder bordered by woodlands. The run has two 90-degree turns that are not too difficult but present some challenge to the skier's ability. Most of Rahn's run is over a 45-degree slope and is approved for intermediates. Cave Dell run is another 600-yard wooded trail.

Ski-Pal lodge has facilities and equipment for outfitting skiers. In this phase of the operation, Dr. Rahn has gone all out to make sure skiers set out with the best equipment obtainable. One example is that ski boots are of Italian and German make, considered about the finest in the world. dition to rentals, a complete line of ski equipment and clothing is offered for sale at the lodge. Out on the run a ski instructor is on hand to help skiers master the have been rigged for night skiing. Directly across from the main ski run is a parking lot ample to But

sometimes they are dissatisfied sit and watch. Then, first thing with "just watching."

people take to skiing. First they said.

you know, they are out on the runs "It's interesting to watch how trying their hand at it," Dr. Rahn

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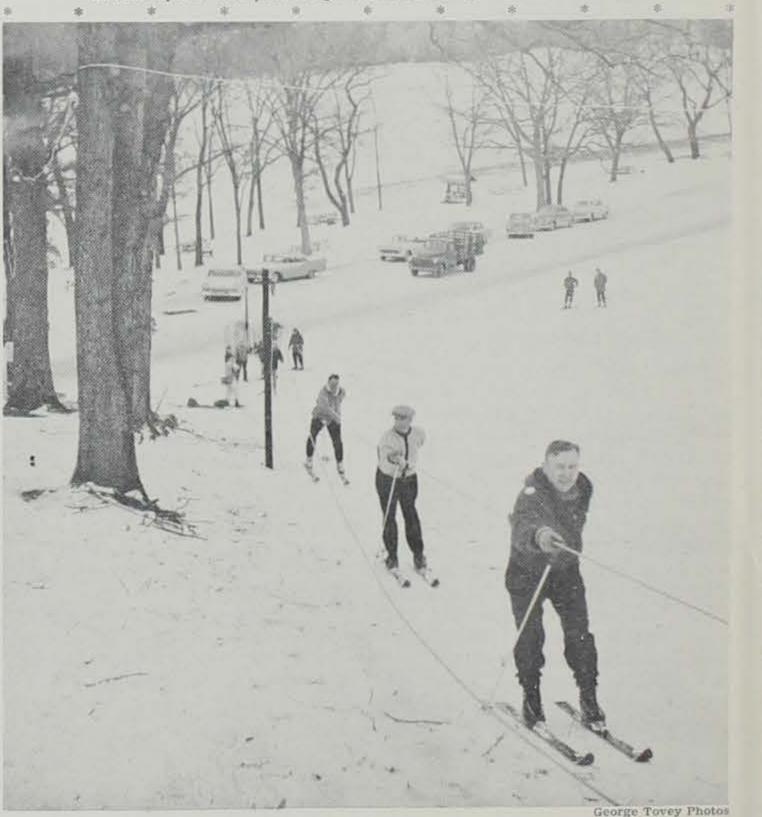
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A pause at the top of a ski trail presents an opportunity to take in the scenery at Palisades Kepler. The park lodge is leased during the winter months.



Observers watch the operation of one of Ski-Pal's two ski tows. Ski runs are lighted for The wooded slopes of Palisades Kepler State Park offer a challenge to beginning as well as advanced skiers.

IOWA CONSERVATIONIST

CONSERVATION CAMP OPEN TO ALL

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Rahn

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Teachers, sportsmen, naturalists and youth leaders are invited to attend the Tenth Annual Conservation Camp this summer at Springbrook State Park.

Conservation Commission, State Department of Public Instruction and Iowa State Teachers College, begins June 7. Three sessions are offered. The second session begins June 28 and the third gets underway July 19.

Three semester hours of college credit may be earned by those attending the camp as a college course. If students desire, they may remain for six weeks and receive six hours of science credit. Six hours is usually enough for renewal of a teaching certificate.

Springbrook is seven miles northeast of Guthrie Center. During the camp, students will stay in cabins and take meals at the camp. The park has a 27-acre lake which provides opportunity for swimming and fishing. Hiking and photography are other recreational opportunities available to campers.

The camp offers nature study, Moines.



Cost of the camp, including room board and tuition, is \$98.64 for undergraduates and \$104.64 for graduate students. A charge for room and board only will be made to those who do not take the course for college credit.

Scholarships are available for those attending the camp. Information on available scholarships and other features of the camp is available by writing Dr. Verlin Lee. Iowa State Teachers College, Cedar Falls, or Duane E. DeKock, Iowa Conservation Commission, Des

year. Only exception is opening dates which have been set to conform to the Commission's policy of Saturday openings. A summary of 1959 fishing regulations follows: INLAND WATERS OF THE STATE BOUNDARY

the Iowa Conservation Commission.

(Including Big Sioux River)

Min. Mississippi and **Posses- Length Missouri Rivers** Daily Catch sion or and inland water Open Kind of Fish Limit Weight of Lee County Season Limit Carp, Buffalo, Continuous None Same as inland waters None None Quillback, Gar, Dogfish, Gizzard Shad Sheepshead, Sucker, Continuous None None Same as inland waters None Redhorse, Chub, Sunfish, Bluegill Bullheads 15 South 30 South Continuous None Continuous open of Hwy. 30 of Hwy. 30 season with no catch None North None North or possession limit of Hwy, 30 of Hwy. 30 Rock Sturgeon Continuous 15 each 30 each 5 lb. Same as inland waters Paddlefish species species Sand Sturgeon Continuous 15 30 1 lb. Same as inland waters Crappie, Yellow Bass, Continuous 15 each 30 each None Same as inland waters Silver Bass, species species Warmouth Bass, Rock Bass, Perch 8 Trout (All species) Continuous 8 None Same as inland waters Minnows Continuous None None None Same as inland waters Frogs (Except May 9-4 doz. 8 doz. None Same as inland waters Bullfrogs) Nov. 30 Bullfrogs (Rana None Same as inland waters May 9-1 doz. 1 doz. catesbeiana) Nov. 30 Catfish Continuous 16 None Continuous open 16 season with no catch or possession limit Largemouth Bass and May 23-Feb. None Same as inland waters 5 10 Smallmouth Bass 15 North of except continuous

Regulations for Iowa's 1959 fishing season have been announced by

The new regulations are essentially the same as those in force last

Page 109

WATERS

open season



Students at the Iowa Conservation Camp this summer will have an opportunity to get practical, first-hand knowledge of Conservation in the form of field trips. Lectures and demonstrations in the open give a more vivid and meaningful picture of the benefits and problems of Conservation.

Buckskin is of a higher grade in leather is not fine grained.

Young snails do not leave their gelatinous egg mass until their shells have one or two whorls.

Land insects make up an appreciable percentage of the rainbow trout's diet in the summer.

All trout are carnivorous; that fishes or animals.

Under normal conditions brook summer than in winter. Since trout reach a length of from 3 to winter hair is coarser, winter 5 inches the first year, 6 to 8 the second and 9 to 11 the third.

> Generally chipmunks have striped faces; ground squirrels do not.

Walleye pike usually feed in schools, so several can often be taken in one area of a lake.

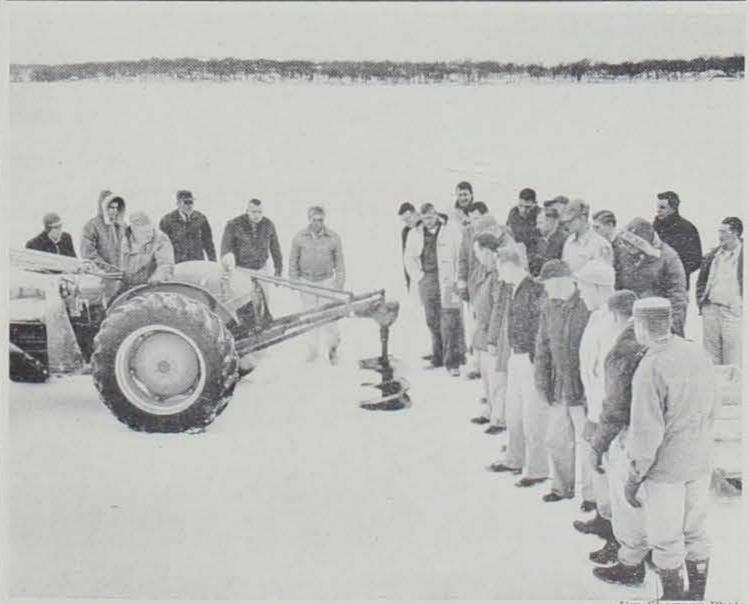
The hermit crab lives in someis, they feed on the flesh of other one else's shell, moving each time the apartment becomes too small.

	Hwy. 30			
Walleye-Sauger	May 9-Feb. 15 North of Hwy. 30 Apr. 11-Feb. 15 South of Hwy. 30	5 each species	10 each species	None Daily catch limit 8 possession limit 16, continuous open season
Northern Pike	May 9- Feb. 15	3	6	None Continuous open season with no catch or possession limit

Hwy. 30

Continuous

Fisheries Meeting



Conservation Commission fisheries personnel watch demonstration of tractor-driven lice auger during fisheries school at Spirit Lake held in January. A knowledge of new equipment was stressed at the school.

Page 110

IOWA CONSERVATIONIST



impressions that last for life. Is there a course in conservation taught in your school?

WILDLIFE WEEK-

(Continued from page 105) munity.

from our range lands, water, wildlife, and even the outdoor places where we seek relaxation and re-

SEEING IOWA PARKS IN WINTER

Visiting Iowa's State Parks is a popular recreation in summer. But the parks are there the year around and a visit during winter is even more fun. In summer much may be hidden by leaves and foliage. Winter opens up new views and from a vantage point one can see many things which have hitherto gone unnoticed.

Cold weather? Even at below zero temperatures the car heater will keep you warm on the way, and proper outdoor clothing will keep you warm on a hike over the trails.

It's a new world! Bright sun glinting on the clean, sparkling snow. Bare trees cast unusual shadows. The snow is a page on which nature writes the comings and goings of wildlife. Here a rabbit has hopped by-there a squirrel has left his track as he crossed from tree to tree, while a more delicate disturbance over on that old log indicates that a bird landed until you visit it on a bright winthere in his search for food. Tiny ter day. Snow covered hills and tracks and trails around the log trails invite you to a new experishow that a fieldmouse has been ence in outdoor beauty.-George out shopping.

Meanwhile, under the snow, many seeds lie dormant, some to be used as food for birds and animals, but most waiting for the warmth and moisture of spring.

The bright blue sky, the unusual shapes and patterns on the snow, the long unbroken view of cliff and glen, the bright winter costumes of your companions are all inviting subjects for the color film in your camera. Pictures can be made that will rival in interest the most common summer subjects.

Back home, after a hike in the open, things take on a new look. Colors seem brighter-books take on a new interest and problems are reduced to their proper proportion.

Iowa's state parks have a beauty all their own in winter. You haven't really seen your favorite Tovey

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... Help get money to support conservation-education activities.

In announcing National Wildlife Week, the Federation makes the following statement concerning 1959 goals:

"People's concern for the lands upon which we live-and all the people of the future must live-is linked closely to a basic concern for the well-being of others. This must be instilled in our younger generations through the teaching of conservation in our schools.

"Conservation is a way of living. It calls upon us to care for the resources we require in order to live -crops from our soils, minerals, lumber from our forests, cattle

WHOSE WATER TOMORROW?

Coming up in the ensuing decade or two are water rights fights the like of which this country has never seen before. . . .

If interested in the recreational angle (half the total population is, in one form or another), you better load up your horse pistol, podner, and stand guard over the like bristle tail. waterhole, because somebody's going to try to take it away from you.-Bill Wolf, Sports Afield, Reprinted in Wisconsin Conservation Bulletin.

lief from everyday cares.

"Conservation is also a way of thinking. Like the principles of self-government that we have come to regard as the foundation of our democratic system, its basic concepts must be imbued in our children as they learn about livingfrom kindergarten through college. School experiences can give them opportunity to learn about conservation by practicing it, even if only on a small scale within a playground or schoolyard. Through this exposure, during their formative years, conservation can become a guiding philosophy in their lives.

"By learning about our resources and the care we must give them. our young people will see that a good share of the world's troubles stem directly from our past failures to learn to live with the land, instead of against it!"

Varnish for that job of fishing rod refinishing will flow more evenly if it is heated first. This can be simply done by placing the open can in a basin of hot water.

The silverfish is not a fish and does not live in the water but is a small wingless insect with a fish-

Iowa has 15,000 miles of fishable streams; 45,000 acres of natural lakes; and 3,000 acres of stateowned artificial lakes.

Winter in Iowa parks offers a variety of opportunities for the nature lover and photographer. The quiet beauty of a park under a mantle of snow offers sanctity from everyday worries and cares.

to depths of 200 feet for food. rather than pain. They use only their feet in swimming under water.

developed and evidence indicates a portion of the continent.

The scaup duck sometimes dives hooked fish experiences discomfort

The cinnamon teal is the one of the river and pond ducks that is A fish's nervous system is poorly | confined in its range to the western



In one of his storage rooms, Devine holds a 'coon pelt that has been properly stretched and pelted. Always store furs in a cool, dry place until ready for shipment.

FURS-

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(Continued from page 105) the fur market gave them a boost. Until a few years ago, Devine had continued to purchase Alaskan furs while the new dealers were getting established. This, Devine believes, helped them because his business forced the Alaskan market and resulted in better local prices for the northern dealers.

abroad. He has seen all kinds of furs come down the pike and has learned long ago that you can expect the top dollar only when you deliver top quality fur. He has demanded expert workmanship in preparation of furs of his own and has a great deal of admiration for top-flight work of others.

IOWA CONSERVATIONIST

- Keep a supply of every standmake sure you use the coryou are stretching. Devine muskrats only.
- Any animal that is skinned out with tail intact, the tail bone should be removed and the tail split all the way to the end.
- Never stretch a fur that is wet or muddy. Wash clean and dry before stretching.
- How do you tell when a fur is dry enough to come off the stretcher? Devine and other veterans probably tell from the look and feel of the skin. For others a good test is that furs should be fairly rigid and hold their shape after removal from the stretcher. If they don't hold their shape they are not dry enough.
- After furs are skinned and stretched, store in a cool, dry place.
- When ready, ship your furs completely dry. Take it from Devine, you just can't ship furs wet and expect to get the top dollar for them.

As one might expect of someone who accept nothing short of firstclass work, Devine has had a good many compliments tossed his way. But one bouquet is particularly the fur market."-K.C.S.

rewarding since it comes from a ard pattern of stretcher and facet of the fur business Devine has never seen. Although he has rect size for whatever animal shipped hundreds of thousands of furs to New York, Devine has uses steel stretchers for never visited the large cold storage plants where his furs are stored for later delivery to fur manufacturers. One of the largest manufacturers asked him about it one day in a telephone conversation:

> "Why don't you come to New York sometime and see this side of the business?" he asked Devine.

> Devine declined the invitation, stating he was too busy with business matters at home and enjoying the peace and quiet of his Iowa farm too much to "go traipsin' off to New York."

> The New Yorker didn't pursue the matter farther, but chose the opportunity to tell Devine:

> "Well, for being out in the country, you certainly operate a good business."

It's pretty obvious that one important reason for Devine's good business record has been his devotion to marketing prime quality furs. And it's money in the bank for others who will put forth the effort to improve their skills in fur preparation. As Devine puts it:

"Everyone benefits from better handled furs. Any good, reputable fur dealer benefits and is equipped and willing to help others improve



Page 111

Student of Market

More than a collector, Devine has been a real student of the fur trade and market for as long as he has been at the business. He watches the market and market trends on a day-by-day basis and carefully gauges the wants of fur manufacturers in this country and

There is only one way to get the almost perfect circular beaver pelt such as this one of Harold Devine's. Scrape completely and use plenty of nails.

"I'm somewhat of a perfectionist, I guess," Devine said recently. "I sometimes steer furs to good dealers although it costs me to do so, simply because I admire wellhandled furs."

Devine tries to spread the doctrine. For many years he has had a particular project of trying to educate dealers to methods that will produce better, more uniform quality furs. In more than one instance, Devine has given of his own time and facilities to show and help others master the right preparation techniques.

Any fur man who will follow these points of instruction, says Devine, will eliminate most of the common faults of fur handling and come up with furs that are uniform and of top quality:

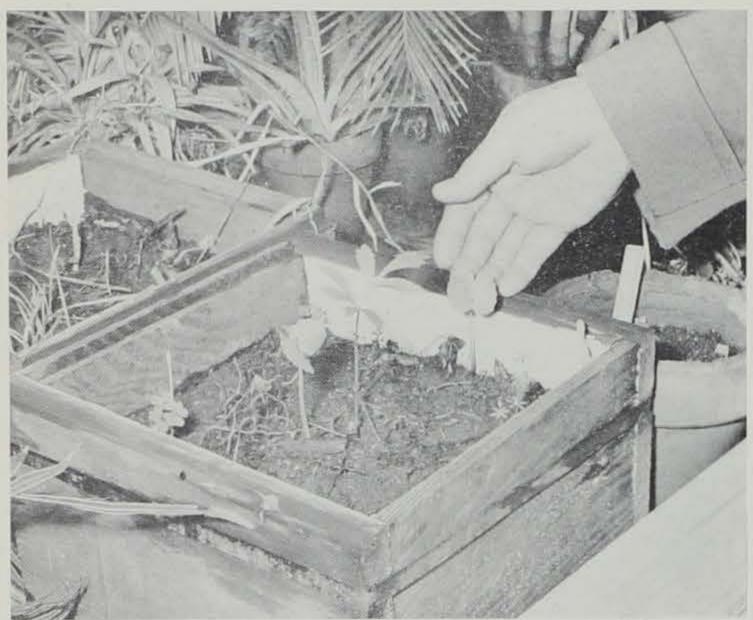
- Exercise care when you kill any trapped animal that must be shot. Shoot through the head from the side so that there will be no damage to the fur farther down on the animal.
- Pelt your animal as soon as you can-the sooner the better.

Remove all surplus flesh from the hide. Any excess fat left on the hide will spoil, resulting in slippage of hair.

Devine here demonstrates a poor pelt and one that has been properly handled. The pelt on the left has not been scraped completely. Every glob of fat will spoil, causing fur to slip badly.

Page 112

IOWA CONSERVATIONIST



Dr. Wendell Bragonier inspects several varieties of wildflowers in this soil plot. Several kinds of wildflowers should be blooming at the time of the Home and Flower Show in Des Moines the week of February 21.

WILDFLOWERS-

(Continued from page 105) of existing wildflowers had to be calculation and patience. located, plotted and dug. Some Manipulations of temperature identification from leaves was poshad to take into account the difsible so botanists could predetermine some species at the time of plotting. Some of these same plots and others hid their secrets below what the eye could detect. The plots of soil, looking for the most part barren, devoid of life and laced with crystals of frost, were where growth began under watchencased in wooden frameworks ful eyes. When the time was right, and moved to the greenhouses at Iowa State. gree room to spur their growth. Many Areas From many different areas of the state they came. Wildflowers from Ledges and Wildcat Den ing pains.

posure to different greenhouse temperatures, much diligent watching,

ferences in the growing cycles of the various flowers and shrubs. For most varieties, a period of cold weather was necessary to break their dormancy. Then, as calculations dictated, certain species were moved to the 50-degree room flowers were brought to the 70-de-In the case of some of the shrubs, it was necessary to take them back outside to retard their grow-



This before and after photograph shows how soil plots appeared as they came from outof-doors (left) and after a month of water, sun and warm temperatures of ISC green-houses. The big problem was actually curbing growth rather than forcing it.

Of the shrubs Home and Flower Show visitors may find blooming are pussy willow, hazelnut, redbud, indigo bush, June berry, wahoo (or arrowwood), basswood, sycamore, maple, Iowa crabapple, and coral berry.

It may be difficult to say which or how many of the varieties will be in bloom at the time of the Home Show, but some definitely will be. Ferns, mosses and lichens will be set in place just before the show so that they will be at their best, Dr. Bragonier said.

For those who watch changing seasons with an official eye, Spring returns March 21 when the sun crosses the equator on its journey north. More unofficially it may be the first crocus, the first warm rain, or the first thread of geese winging and clamoring to nesting



Virginia creeper was one of the surprises for ISC botanists. This wild plant hid its secret below the soil's surface and did not appear until it was forced.

grounds in the far north. But ef- patrons. For all practical purposes,

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State Parks; ferns from the Mc-Gregor area; logs with fungi from Dolliver State Park and mosses and lichens from Ledges. Shrubs came from state park areas and state nurseries. Through it all, the weatherman was cooperative, presenting all involved in the project with an open fall. Everything that had to be brought from out-ofdoors was dug between November 21-23, before the real hard freeze around Thanksgiving.

With delivery to the ISC greenhouses, the problems involved in pushing the calendar ahead a couple of months were carefully calculated. A scientific concept was basic in bringing the flowers and shrubs to bloom.

"The facts of science we know. Every 10-degree (centigrade) inrate of a plant's metabolism. Knowing this, we are able to calculate more accurately how long it takes to bring plants to peak bloom," Dr. Bragonier said.

ready conducted by horticulturists wild orchid, bedstraw, scouring helped answer some of the problems regarding shrubs, but wildflowers were something else again. pody, maiden hair, ostrich and lady of these. They would require ex- fern and fragile fern.

Through the length and breadth of the project, the big problem has been one of curbing growth, rather than forcing it, Dr. Bragonier said.

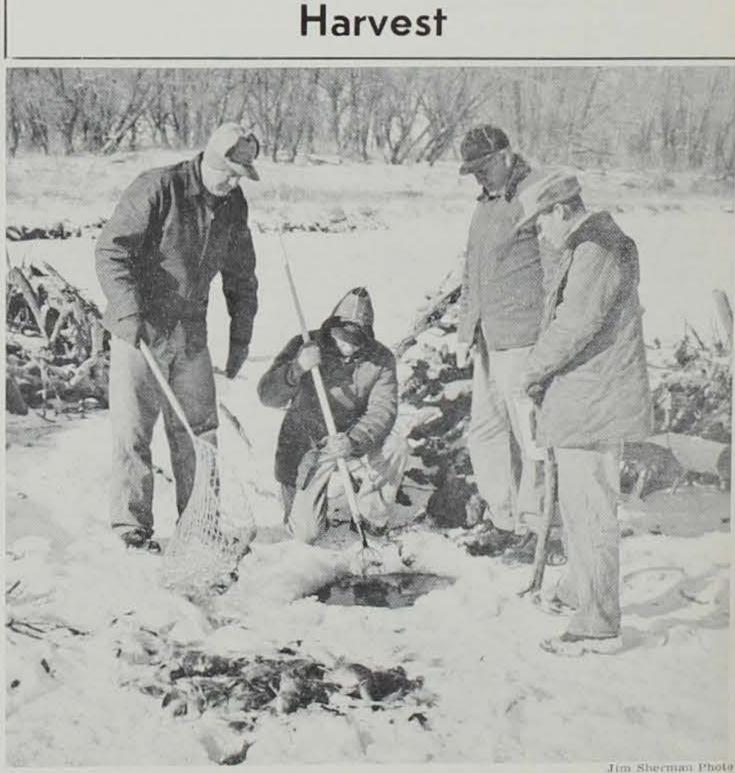
Blooming Differs

The blooming periods of individual varieties added to the complexities of the project. Wildflowers like hepatica and Spring beauty have a short blooming season. Because they do, calculations and temperature controls had to be with fine-line accuracy to hope for best bloom within a specified few days.

All of the sweat and patience of the project has had unexpected rewards for those most directly involved. As flowers were forced, several that had been hidden becrease in temperature doubles the low the surface of the soil began to appear. Among these were Virginia creeper, jack-in-the-pulpit and bublet bladder fern.

In addition to those mentioned, ISC botanists were able to force Some experimental work al- bloodroot, phlox, yellow bell flower, rush, wild columbine, wild geranium, sweet cicely, golden poly-There had been no previous studies fern, interrupted fern, walking

fort and cooperation of many has their Spring premiers at Veterans' shortened the wait for Home Show Auditorium February 21!-K.C.S.



Promiscuous fishing enables public to harvest fish that would otherwise be lost to freezeouts and low oxygen. This photo was taken on the Little Sioux River as promiscuous fishing was opened here and other critical areas in January.