CONSERVATIONIST

Volume 7

MAY 15, 1948

Number 5

THE ROUGH AND TUMBLE SMALLMOUTH BASS

CARP A SPORTS FISH FOR THOUSANDS

Sixty million Frenchmen can't be wrong, nor can one hundred thousand Iowans. That would probably be a conservative estimate of the number of anglers that fish for carp each year in Iowa. They have found out for themselves what some folks will probably never let themselves learnthat the carp is a sporty fighter, and when taken from good water, delicious to eat. Smoked carp, for instance, rivals the famous smoked salmon of the northwest!

Let's talk a little about the habits, background, personality of this fish, and point out the good and bad qualities of the carp so that we can know the truth rather than depend on the old wives tales that so often pass as fact.

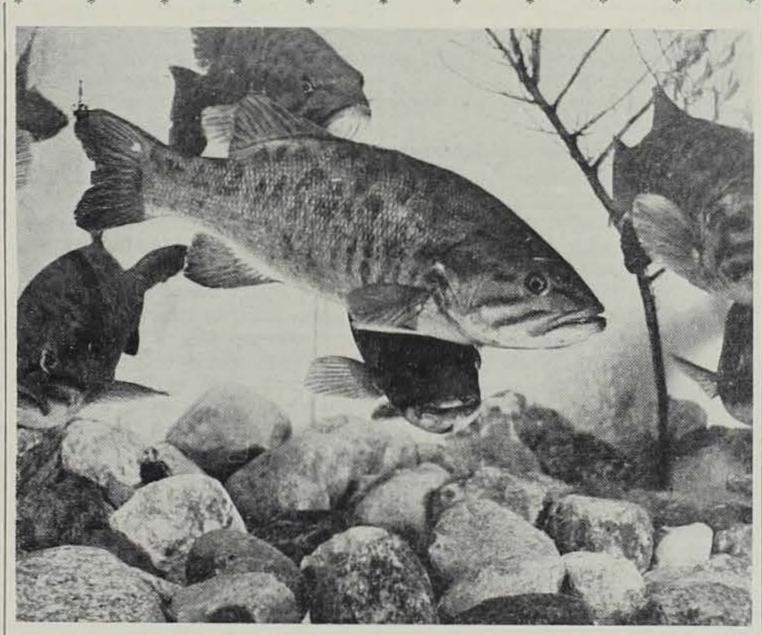
Since earliest times the carp has been well thought of by man. It was raised some 3,000 years ago by the Chinese, brought to and cultured throughout continental Europe and England at an early date. Emigrants to America brought it to this country about 1870 and it was raised in ponds much as it had been for centuries in the old country.

About 1880 the fisheries departments of many states, including Iowa, began to stock carp in the public waters, and in a few years it became firmly established in practically all of the suitable carp waters of the United States.

After a short period of popularity the carp became cursed and unpopular. Typical of many people's attitude toward this fish is the old recipe gag on how to bake planked carp.

"Catch a five-pound carp. Dress it, stuff with dressing, put it on a white pine plank or board, place in the oven, and bake for two hours. Remove from the oven. Throw the carp away and eat the plank."

This is nonsense. (Continued on page 38)



The aristocratic smallmouth bass is an unscrupulous roughneck that requires clean, swift, cool water for his habitat. Jim Sherman Photo.

THE BAT KNEW IT FIRST

By Rachel L. Carson

Radar, with its power to safeguard night-flying planes against crashes into mountainsides or collisions with other aircraft, is an old story in the world of nature. Its advantages were discovered by that odd creature, the bat, at least sixty million years ago. Ever since the day when a small mouselike animal spread leathery wings and became the first mammal-and to date, the only one-to acquire the power of flight, the bat has been flying about the dark places of the earth and doing remarkably well about avoiding the trees, cliffs and buildings in his path. He escapes mishap by using a system that bears an uncanny resemblance to

As everyone knows, radar detects approaching planes or other objects in the sky by filling the

air with a series of high-frequency radio waves, then receiving the echo that bounces back from anything in the path of the signals. The bat's method is very similar, had managed to leave a favorite Instead of radio waves, he sends lure tangled around a submerged out a staccato series of high- root or snag. pitched cries.

hear as he flies overhead on a summer evening; the bat's radar signals are pitched too high for human ears to hear-too high, per- will vary greatly, depending upon haps, for the ears of any creature water conditions, the basic hue is except himself. These supersonic usually close to a bronze or brassy cries fill the space into which he is green. The belly will vary from flying. They strike some object in milky white to tattletale gray. his path. No matter whether it is as large as the side of a hill or as ings, appearing as vertical bands small as a single strand of wire, or patches, serve as excellent camthe signals are reflected or echoed ouflaging. Eyes are usualy splashed back to his keen ears. The echo with red, occasionally white ringed. warns him to change his course and avoid collision.

(Continued on page 39)

With all the traits of an aristocrat, and the usual shortcomings of an unscrupulous roughneck, the smallmouth bass stands head and tail above any strictly fresh water game fish of equal poundage.

The explosive energy in its powerful body and the dash of red in its predatory eye are bad medicine for any nearby food fish; by the same token, this savage instinct to kill its prey with a vicious surge accounts for the heavy impact of its strike.

It prefers only the cleaner, swifter, cooler waters and, in turn, is preferred by discriminating fishermen who like both edibility and capability. Here is a fish of the first water, that will fight to the last ditch.

Although sometimes confused with the largemouth bass, because of the similarity in general characteristics, the smallmouth is generally conceded a superiority in dash, stamina and acrobatics.

Those anglers who know it well respect it highly; those who have not learned to fool this gamester will find the smallmouth a difficult but worthwhile puzzle for solving.

A member of the sunfish family. the smallmouth in Iowa is called by many names-some of which are unprintable because they were coined just after this wily rascal

Those names of complimentary These are not the squeaks you or other origin are: bass, black bass, green bass, smallmouth, bronze back, and redeye.

Although the color of this fish

Darker bronze or dusky mark-

Since color cannot be taken as a guide in identifying the smallmouth

(Continued on page 38)

lowa Conservationist

Published Monthly by

THE IOWA STATE CONSERVATION COMMISSION

914 Grand Avenue—Des Moines, Iowa (No Rights Reserved)

ROBERT D. BLUE, Governor of Iowa

G. L. ZIEMER, Director JAMES R. HARLAN, Editor

ENID BROWN, Associate Editor

MEMBERS OF THE COMMISSION

E. B. GAUNITZ, Chairman	Lansing
MRS. ADDISON PARKER	Des Moines
E. G. TROST	Fort Dodge
ARTHUR C. GINGERICH	Wellman
F. J. POYNEER	Cedar Rapids
F. W. MATTES	Odebolt
J. D. REYNOLDS	Creston

CIRCULATION THIS ISSUE.35,000

Entered as second class matter at the Post Office at Des Moines, Iowa, September 22, 1947, under the act of August 24,

Subscription rate......40c per year 3 years for \$1.00

Subscriptions received at Conservation Commission, 914 Grand Avenue, Des Moines, Iowa. Send cash, check or money order.

April Commission Action

A meeting of the Conservation Commission was held at the Des Moines office, April 5 and 6, 1948.

Members present were E. B. Gaunitz, A. C. Gingerich, J. D. Reynolds, E. G. Trost, F. J. Poyneer, and Mrs. Addison Parker.

The Commission:

Set the first Monday and Tuesday of each month as regular meeting dates for the Commission, unless otherwise designated.

Authorized attendance of three Commissioners and three staff members at joint meeting of International Association of Game, Fish and Conservation Commissioners and American Fisheries Society at Atlantic City, September 13-17, subject to Executive Council approval.

Authorized attendance of two Commissioners and two staff members at waterfowl hearing in Minneapolis, April 23, subject to Executive Council approval.

Authorized attendance of Assistant Director and District Supervisors of Officers at meeting of Midwest Association of Fish and Game Law Enforcement Officers effective April 1. at Higgins Lake, Wisconsin, June 9-11, with approval of Executive Council.

Authorized attendance of Director and Commissioner Poyneer at meeting to discuss Missouri River Basin Studies at Lincoln, Nebraska, April 18, subject to Executive Council approval.

Adopted Administrative Order No. 111 closing Upper Pine Lake in Hardin County to fishing for the 1948 season.

Adopted Administrative Order No. 112 opening ten north Iowa lakes to minnow seining.

Authorized recommendation to

the Executive Council that 171/2 acres in the bed of the Mississippi adjacent to Bettendorf be sold to the Aluminum Company of Amer-

Authorized title to 55-acre tract in Heery Woods Park be allowed to revert to grantors in return for a quit claim deed to remainder of park area.

Fixed May 11 as date for regional waterfowl meeting to be held in Iowa.

Discontinued use of cellophane holders for hunting and fishing licenses.

Declined offer of gift of Pouska Tract of 50 acres near Fort Atkinson in Winneshiek County.

Granted request of Emmet County Board of Supervisors for an easement of .09 acres on Birge Lake in Emmet County to widen highway.

Authorized completion of acquisition of 60-acre Hurley Tract at Waubonsie State Park.

Accepted resignation of Mary Lewis, effective April 7.

Approved holding of conservation officer preliminary examination on April 26.

Ordered recording of Kalsow option on 160-acre prairie tract in Pocahontas County.

Approved contacting Iowa representatives in Congress, advising that the Commission favors removing 20 per cent construction restriction on Pittman-Robertson funds.

Refused request of Loren Harvey of Knoxville to purchase a part of the abandoned Des Moines River bed between Harvey and Tracy.

Approved request of Tom Christensen to use a dragline to open the lagoon at Triboji Beach on Lake Okoboji.

Nos. 15, 16, 35, 45, 3, 6, and 9 which conflict with Administrative Order No. 110, setting the 1948 fishing regulations.

Approved statement to be presented by Director at a Public Hearing to be held April 8 on Flood Control Reservoir in the Des Moines River proposed at the Howell site.

dock operators at Arnolds Park.

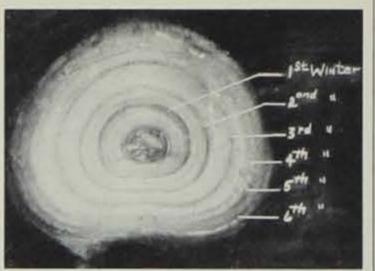
Appointed Paul Leaverton to position of Superintendent of Game,

Completed formal action necessary for transferring Lakeside Laboratory on West Okoboji to the State Board of Education.

Instituted condemnation pro ceedings on the Lanaghan Tract in Goose Lake, Greene County.

Meeting adjourned.

In 2700 B.C. sage ancestors of Confucius wrote on the forest influ-ences, "To rule the mountain is to rule the river" and "Mountains exhausted of forests are washed bare by torrents." It shows that they knew of the menace of accelerated erosion more than 4,000 years ago, that they knew how to handle their land. But they did not do so, for look at that eroded, misused country to-



End surface of vertebra from 103/4 inch northern black bullhead. The fish is esti-mated to be six years old. The annual rings are labeled. State College Photo.

Bullheads Are Bullheaded

By William Lewis Iowa State College

Biologists at Iowa State College are finding the bullheads less cooperative than other fishes. Most fish record their age and life stories on their scales, but the bullhead is not so obliging. The age of a bullhead is usually a secret. Can it be that the bullhead claims a woman's privilege?

The bullhead is one of the most popular fish in Iowa, but less is known about it than many less important fishes. The little that is known reveals that the bullhead is a rugged individual. It will grow and reproduce in ponds and shallow lakes where no other food or game fish can survive. As a result, bullhead fishing is to be had throughout Iowa, often in places where there is no other fishing. If more were known about how this fish lives and grows, bullhead fishing could be improved in some waters and could be provided in others.

Much of what is known about the life and growth of fishes has been learned from marks on fish scales.* Unfortunately, the bull-Rescinded Administrative Orders | head has no scales and hence cannot be aged by scale reading. To find some way for determining the age of bullheads and to secure information needed in the management of these fish, the Iowa Cooperative Fishery Research Unit† at Iowa State College has been studying the vertebra of bullheads for the past year. The end of each vertebra has a number of Renewed permits of commercial light and dark rings. These rings are somewhat like the rings on tree stumps or on the scales of other fishes. In the accompanying photograph of a bullhead vertebra, one can easily count the dark rings.

> Each dark ring in a tree trunk represents a winter, and the age of a tree can be determined by counting the dark rings. The dark rings on the bullhead vertebra also indicate the winter's growth. Bullheads grow more slowly during the winter than during the summer and therefore the part of the vertebra which is formed during the winter is different than the part formed during the summer.

> It would thus seem that the age of the bullhead could be determined by simply counting the rings on the vertebra. However, in the studies

carried on at the college, some bullheads of known age were found to have more rings than one for each winter. These additional rings looked like the true winter rings, except for minor differences which could usually be detected. Some of the bullheads will still keep their age a secret until a fool proof method of distinguishing the true from the false winter rings can be found.

Although it has been impossible to learn the age of all bullheads collected, interesting information has been learned from the vertebrae of some of them.

Lost Island Lake is famous for its bullhead fishing. In fact, the bullheads are so abundant that apparently there is not food enough for all of them. They are slow growing, all about the same size, and most of them have empty stomachs when they are caught. Because of this condition, the Iowa State Conservation Commission in 1946 removed all limits on the take of bullheads in Lost Island Lake. In the April, 1947, "Iowa Conservationist," Earl Rose, Fishery Biologist for the Commission, described the reasons for and the results of this lifting of the limits. Fishing has continued to be good even with the greatly increased fishing pres-

Rings on the vertebrae of bullheads collected at Lost Island Lake in June, 1947, indicated that most of the fish were four to six years old. These bullheads were seven and one-half to eight inches long and weighed one-fourth to onethird of a pound.

Some black bullheads were also taken from a new farm pond near Pella. In this pond the bullheads were not crowded and apparently had plenty of food. These fish were only two years old, and yet they were almost ten inches long and weighed half a pound.

After aging several hundred black bullheads, we have an estimate of their average size at different ages. One-year-old bullheads are usually 2 to 3 inches long; 2-year-olds, 3 to 41/2 inches; 3-year-olds, 5 to 51/2 inches; 4-yearolds, 6 to 61/2 inches; and 5-yearolds, 61/2 to 7 inches. This is a slow rate of growth and may account for the scarcity of large bullheads in many of our lakes, ponds, and streams. In some waters the growth may be much faster than here indicated.

"See "Fish Scales Tell Their Tales" in the April 1948 "Iowa Conservationist."

†The State Conservation Commission, the U. S. Fish and Wildlife Service, and the Industrial Science Research Institute of Iowa State College cooperate in this Research Unit to provide information for the management of Iowa fishes.

As a field border multiflora rose will, in four to six years, produce a fence that will hold all forms of livestock other than poultry. This living fence saves the landowner time and money because it maintains itself, needs no pruning, and eliminates the necessity of installing and maintaining another type of fence.

Baby beaver are called kits.



With the return of spring the spiraling smoke of daytime campfires will be seen throughout the country-side. Jim Sherman

Spring and Young Dan'l Boone

Spring has come dancing back again, drawing the drab curtain of Winter behind her, her twinkling toes tossing crystal dewdrops from the greening grass. A million elfin subjects scatter wildflowers in her pathway and from every wooded hillside the chorus of birdsong sounds accompaniment for her dance.

And with the return of Spring, there comes a rebirth of the spirit of adventure in the hearts of young America. The summer months will find millions of youngsters tossing aside the cares of the school room and planning forays into the mysterious depths of the open spaces. Young make-believe Dan'l Boones, Kit Carsons, Buffalo Bills, and Izaak Waltons will gather along the creek banks and on the hillsides with home-made bows and arrows, sling shots, BB guns, cane poles, and worm cans for the great adventure dear to the heart of every boy.

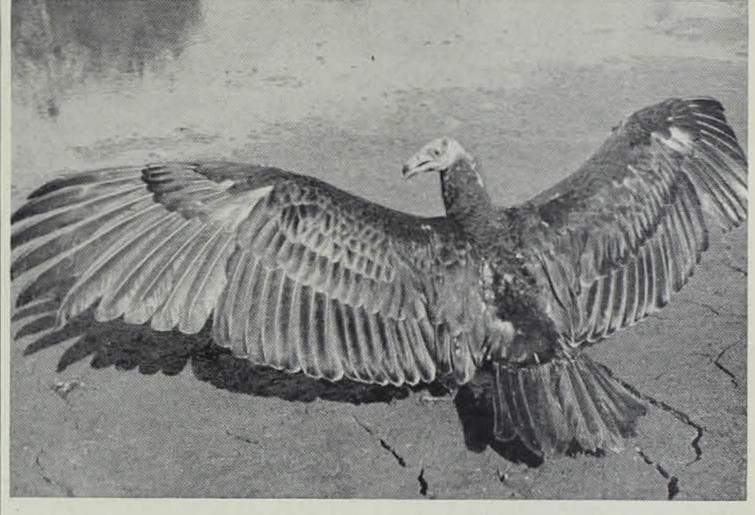
It won't be long before the spiraland the crack of the .22 rifle will be tion. Any boy or girl can partici-

seen and heard throughout the countryside. "This is the time," says Henry P. Davis of Remington Arms Company, "for sport loving adults to step in and take a 'big brother' interest in the field activities of our youngsters. Not with the idea of spoiling the fun, of course, but to show young Dan'l Boone how to shoot his imaginary b'ar' with danger to himself, his companions or the public."

Boys naturally resent any adult intrusion into their world of makebelieve, but playtime campfires can do untold damage when left untended and a .22 rifle is not a toy. Once you make it plain to the youngsters that yours is not the role of a butt-inski, but of one who wants to help them get the most enjoyment out of their outdoor adventures, you'll be welcomed with enthusiasm. In fact, you'd better be prepared to answer a lot of simple yet often difficult questions.

We, as sportsmen, can make no greater contribution to the enjoyment and well-being of our youth than by seeing that they are started off on the right road to a fuller enjoyment of the outdoors and its many fascinating advantages. It is the dream of almost every American boy to own a gun and go hunting like Dad or Uncle Jim or Mr. Brown. And it is our responsibility to educate him in the proper use of that gun, its safe handling and the fundamentals of shooting. Once his responsibility as a gun owner has impressed itself upon his absorbent brain, he becomes the best teacher his comrades can have. The instillation of such responsibility is a step toward making him a leader among boys of his own age and fine preparation for his future adult life.

An easy shortcut to young education in shooting and safe gun handling is the "Be a Ranger" program sponsored by the Sporting Arms and Ammunition Manufacturers' Institute, in cooperation ing smoke of daytime "campfires" with the National Riflle Associa-



All birds are not beautiful. Certainly even the mother of this turkey vulture would not make claim to beauty for her offspring. Jim Sherman Photo.

pate in this program. And if he or she can qualify by shooting three scores of at least 70 out of a posfree, from a distance of 50 feet, A. Ranger and will receive a handsome Ranger emblem.

Full information concerning this program can be obtained by writing the Sportsmen's Service Bur-stand in Central Park. eau, Sporting Arms and Ammuni-Lexington Avenue, New York. The fully explaining the Ranger program and containing complete information on shooting fundamentals, care of equipment, safety practices on the range in the field and club organization before he help Young America to get off to the right start with firearms, to enjoy them to the fullest and to bring home the responsibility which goes with gun handling.

-Remington News Letter

ALDO LEOPOLD DIES

Dr. Aldo Leopold, 62, member of the Wisconsin Conservation Commission, and nationally known conservation authority, died recently up with an answer that we believe while fighting a grass fire near his summer home at Barabou, Wisconsin. A native of Burlington, Iowa, Dr. Leopold was a past president of the American Wildlife Society and a Professor of Wildlife Management on the faculty of the Uni-15 years. He has written several books and many articles on forest and game management.

Dr. Leopold left an indelible imprint on game management prac-Twenty-five Year Plan" published in 1933. His basic findings and recommendations resulted in Iowa's modern game management plan.

The Upper Iowa River falls over 700 feet during the course of its 135mile journey to the Mississippi.

WHY THE CREATOR MADE MALE BIRDS BEAUTIFUL

Tuesday afternoon, two bright sible 100 on a target, furnished young ladies and an equally bright young man from the high school that youngster will become a N. R. | were viewing an exceptionally beautiful red bird with black wings and a female with dirty yellowish green back and dull colored wings, perched in a tree west of the band

The youths, trying to identify tion Manufacturers' Institute, 343 | the male, finally decided that it was a scarlet tanager, but the two inquirer will receive a pamphlet young ladies questioned the Creator's justice in making the male so beautiful while his "wife" is not nearly as beautiful.

One of the young ladies contended the Creator had to dress the "dude" up so beautifully or the can take part in the Ranger pro- | lady of his choice would not fall in gram. This plan is designed to love with him nor follow him all over the face of the earth in his wanderings, spring and fall.

The other young lady was of the opinion that the "dude" was dressed up in such conspicuous apparel so the "wife" could easily shadow him at a distance to see if he were holding secret meetings with some "hussy" unbeknown to her.

But the young gentleman came is more nearly correct. He opined that the Creator colored the female's feathers so that they blended with the surroundings and the materials from which the nest is made.

If an enemy hawk or a cat, out versity of Wisconsin for the last on a hunt for a delicious morsel of bird meat, came in close proximity to the nest, the brilliance of the male bird would attract that enemy away from the mother and her children. Then he added: "Just tices in Iowa through his study and like you women, you call the men recommendations in the "Iowa dudes and suspect them of hidden motives, when they are performing the noble duty of risking their lives in defense of their homes and loved ones."

—Fairfield Ledger

Before the Magna Charta in 1215, wild animals and birds belonged to the English king as an individual.



'We, as sportsmen, can make no greater contribution to the enjoyment and well being of our youth than by seeing that they are started off on the right road to fuller enjoy-ment of the outdoors." Jim Sherman Photo.



Black suckers and trout live in the same water and the successful sucker fisherman uses the same tackle, bait, and technique as for trout. Jim Sherman Photo.

Fins, Furs and Feathers

If you will take carp or sucker meat, cut it into slices the right size for catfish bait, put the slices in a fruit jar, salt it slightly, then pour on a little milk and sprinkle on a generous quantity of cornmeal, sealing the jar loosely, set in a warm place and let ferment for a couple of days, you will have an excellent catfish bait. This recipe costs you nothing-it will workgive it a try.

Last opening day, I watched several trout fishermen as they endeavored to outsmart the trout. They had no success whatever. They made too much commotion, they openly exposed themselves to the pools, they used too heavy sinkers and too large hooks. You must use a gut or nylon leader to make the line invisible in the water -you must use a very small hook -preferably a No. 8-and a sinker no larger than a split BB shot. And for goodness sake, use caution in approaching any part of the stream you expect to angle in. Be as careful in your approach to the trout stream as you would be in approaching a covey of quail. And if you expect to catch your limit of trout, use patience. The trout are in those pools-if you are quiet, patient, and use the right bait and hook and sinker, you'll eventually get your share. But if you are a runner-up-and-down the stream, you will get few trout.

Black suckers are hitting good now. Most any hole in the Maquoketa has a good school of these very fine fish. For them, use exactly the same tackle, bait and technique as for trout. In the past ten days, I've caught about fifty nice black suckers. At this season

of year, they are superb for eating. No fish that swims is more delicately flavored and, except for a few small bones, no fish is more desirable for food. After the water gets warm, suckers become too soft in flesh to be good eating. So, go sucker fishing now-they are really taking the hook.

Women are not required to have a fishing license unless they go fishing in a state-owned lake. Then the girl friend must have a license. Nobody under sixteen years of age is required to have a license, and no license is required of a person who receives old age assistance.

According to the wording of the state law, you and I are acting illegally if we give our friends any minnows. The law says: It shall be unlawful for any person to take or attempt to take minnows for commercial purposes - and commercial purposes are construed to mean selling, giving, or furnishing to others. That's the way the law reads—so if I try to borrow a few minnows from you and you let me have them, you may get in "dutch" with the law. I must procure my own minnows and you must procure your own minnows-we can buy them from a licensed dealer, but I can't give you mine, nor can you give me yours.

There's a lot of fun in fishing for chubs, especially those big redheaded fellows. They strike with almost the viciousness of a trout, and they are gamey little fish. And in the frying pan they're tops. When taken from cold water, I don't know whether there is a better flavored fish. In this neck of the woods, I think Buck Creek is the best stream for the big chubs. know the right pools.

Given a week of really warm weather and the carp will start hitting. And if this spring's high waters prove anything, there'll be

the streams. One day in February when the river was out, this writer put on his boots and flounof town. He saw great quantities fight. The fish hooked was huge of carp that would weigh up to ten and fifteen pounds. And he also saw large numbers of bass that would beat three pounds.

For carp, the dough baits are best. Carp do take worms, but they have a peculiar yen for dough baits. Ordinary graham bread worked say again that carp have no fight into a stiff dough is favored by many carp fishermen, others demand the corn-meal mixture. Soybean meal cooked stiff and flavored with salt, vanilla and black molasses makes a good carp bait. My preference for a carp hook is the No. 22 Cincinnati bass. Most carp fishermen will tell you they catch thrill of landing a big carp is just more carp fishing upstream, instead of the conventional downstream.

The high-browed anglers sneer and scoff at the carp fishermen. But I have a notion there is quite as much real sport in catching carp as there is in catching catfish or bass. Of course, the catfish and the bass are more desirable as food, but for sheer sport, the carp rates along with the best of the game fish varieties. I use a fly rod for carp, with a ten-pound test leader. Now, if somebody tells you it isn't a battle to handle a big carp on such tackle, then tell that fellow he doesn't know his fishing. Personally, I think the carp, pound for pound, has more pulling power than a bass. The carp hasn't the sparkle and dash that has the bass, but bass never get to fifteen or twenty pounds either.

Last year, a fellow was fishing But even in Buck Creek you must at Guttenberg for catfish, using dead minnows. He had a light tackle outfit and he was scorning the guys who were fishing for bluegills and sheepshead.

I was trying for bluegills-this tens of thousands of big carp in fellow of whom I write was within

When fishing the northeast lowa trout streams the angler must use caution in approaching the pools. Be as careful in your approach to the trout stream as you would be in approaching a covey of quall.

five feet of me. I saw him get the strike—the fish made a good run, and the man struck and hooked the dered over the bottomlands south fish. I've never seen a more trying the man had light tackle and really was an expert. In about thirty minutes, the fish was vanquished and brought to the net. It was a carp—we weighed it and it went 22 pounds. Well, that chap said, "I'll be darned. I'd have sworn it was a catfish. I'll never in them."

> I've seen carp taken from below the Hopkinton dam that were real tackle busters. I saw one lost there last summer that I believe was four feet long. So, the carp fisherman does get thrills—and the as nerve-wrangling as is the thrill of getting any other big fish.

> > —Hopkinton Leader

NOW IS GUN REPAIR TIME

The best time to have your gun repaired, refinished or given a general going-over is right NOW, according to Remington Arms Company.

"A good many sportsmen put off small repairs and even overhaul jobs until the last minute and then hope for QUICK service. We could give much better service if they would not delay in sending these guns in and thus avoid the rush. If the repair is a minor one or one not requiring special work, it will be best to turn it over to a competent local gunsmith who is not so far behind in his work as the repair staff at the factory. They'll get quicker service that way."

All gun manufacturers maintain custom repair and service departments for firearms of their own make. When the gun is received at the factory, it is registered and given a file repair number, then stored awaiting correspondence from the owner. Factory service men then give the owner an estimate of the cost of the work desired and suggest whatever additional work seems necessary or advisable. Upon authority from the owner, the repairs are made and the gun returned as promptly as possible. Each is taken in its turn, except in cases of emergency.

In sending a gun to the factory, it should be taken down and carefully packed in a good stout box or heavy, double-thick cardboard carton. The trigger guard should be tagged with the sender's name and address and the model and serial number of the gun.

A separate letter should be written to the factory which will explain in detail the repairs desired, referring to the gun by model and serial number. This letter should be mailed before or at the same time the gun is shipped. Have that gun put in shape NOW, and it will be ready when next season rolls around.

-Remington News Letter



Big catches of small bullheads have been common in Five Island Lake, but most anglers would rather catch fewer but bigger fish. Thinning bullhead populations is the answer to larger individuals.

Five Island Bullheads

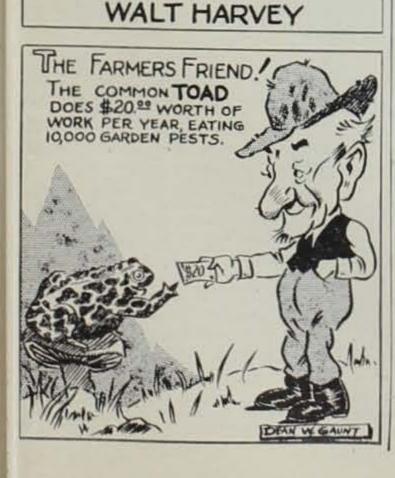
Big catches of small bullheads have been common since the first week of the month. These bullheads, averaging about half a foot in length, are here in abundance and easily caught.

As ANYONE who has fished Five Island for bullheads the last few years knows, the size of the fish has decreased as their number has increased. The bullhead population appears to be going through the same cycle the bullheads in Lost Island Lake passed through in the early 40's.

We would rather catch fewer but bigger bullheads and believe most other fishermen would go weren't so sure last Sunday after here from their farm between of fish.

stools fishing from the west shoreline north of Dr. Marks' home,

OUTDOOR ODDITIES



When we passed by, they had caught three and the farmer's wife was hauling in a fourth. They did not concur when we said the bullheads were "too small."

"Why, these are the very best size for eating," the farmer's wife told us. "We think this is the best bullhead lake there is. There is no place we'd rather spend Sunday afternoon than right here catching bullheads."

So we backed right out of the argument. Maybe we don't appreciate what we have because we don't see it as others see it.

John Buffum and Stan Price caught a boatload of bullheads the other day in the lake here, hoping they would run across some of the along with us on this. But we larger ones. But they didn't. There is no bag limit, daily or possession, talking to a couple who had driven on bullheads this year and Buff had a good suggestion: Don't throw Plover and Rolfe to catch a mess back the small bullheads you don't want, but dispose of them in some They were propped up on camp other way. This will help relieve, in a small way, at any rate, the congestion of bullheads in the lake. The sooner they are thinned down the sooner we should be catching bigger fish.

> However thick they may be, apparently the bullheads aren't starving. In all cases those who have hooked them reported they are fat as butter. Add to this By Moad's claim Five Island Lake bullheads have the best flavor of them all and you have a fine eating fish, small though many of them may be.

-Emmetsburg Democrat

Sweden has practiced a forestry program, beginning in 1606. As a result of her conservation practices she has no ghost areas. She has set up a fine program because each citizen feels a personal responsibility for wise land use and as a result a fine public policy has been developed.

The poison from ivy is of an oily nature, so if you fear you have come in contact with it, wash the hands or other exposed parts with an alkali such as baking soda, weak ammonia, strong soap, or wood ashes.

Wardens Jales

Shop Talk From the Field

Conservation Officer Tom Berk ley, in charge of Madison and Dallas Counties, writes:

"When on winter fish patrol on the 'Coon between Adel and Van Meter, I arrested some spearers and they had in their possession 30 catfish. Before taking them into court, I looked over their fishing site and found they were operating right in the middle of a huge concentration of catfish. I had never before seen anything like it, so I reported the concentration to Harry Harrison, fisheries biologist.

"It was decided to make a catfish count in this winter concenthrough the slot. He figured the number of fish under the hole at one time, then the time it took for the group to completely change, then the time it took for the whole arrived at an estimate of 25,000 could easily contain 50,000 fish because many passed on downstream outside the ends of the channel.

"The fish were in several distinct size groups, one inch, four inch, eight to ten inch, fourteen inches, their lunch and then clustered in and over eighteen inches, many in the lobby. Among their numbers the last group that would weigh was Floyd H. (Flick) Davis, Actsix to eight pounds.

owns the land adjacent to this spot and he said that he had lived there Wildlife Service. When the "hat" as he could remember a tremendous group of catfish congregated beg your pardon. Would you mind in the area each winter.

"I could scarcely believe my eyes when I first saw this concentration, and Biologist Harrison's eyes popped out like a couple of oranges when this mass of catfish began moving past his observation point."

Conservation Officer Wes Ashby, in charge of Washington, Iowa and Johnson Counties, writes:

"Fox and coyote hunters in this vicinity have long believed that the red fox and the coyote did not get along very well together. I had a chance to see why they think so during the past winter, and I agree with them.

"I was tracking a pair of coyotes with some of the boys when we found where they had entered a hunting rabbits. They had come upon a red fox hunting in the same timber patch. They immediately put the hot foot to Br'er Reynard, but lost him in some heavy timber and brush a quarter of a mile away.

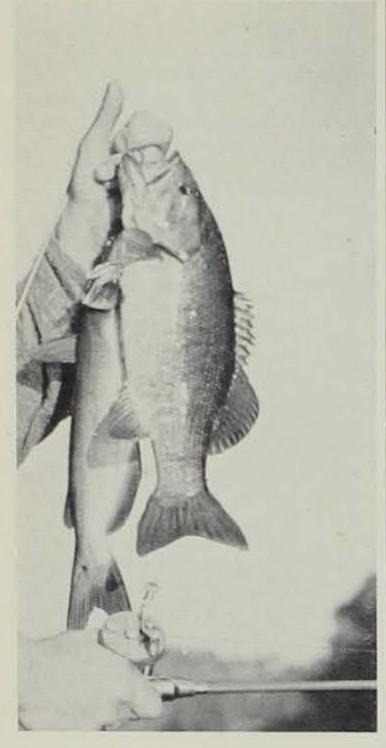
Further on where they had been feeding on dead chickens, which a farmer had hauled out with a load of manure, they got a sniff of a fox that had crossed upwind almost two blocks away and over a knoll. The coyotes again gave chase and from the appearance of the tracks, Br'er Reynard almost met his covote Waterloo, but he finally got away by the hair on his brush in some timbered gullies fully a mile from where the chase began."

Charlie Adamson, conservation officer in charge of Scott County, writes:

"Last fall at the Five States Duck Enforcement Meeting at Davenport, about a hundred game wardens from Iowa, Illinois, Wisconsin, Missouri, and Minnesota, as well as United States Game Wartration so we sawed a channel in dens, were seated in the dining the ice a foot wide and 12 feet long room of the Blackhawk Hotel beacross the channel. I drove the ginning their evening meal. In fish down past the open channel through the dining room door, with while Harrison made observations all the majesty and poise of fullrigged frigates came a group of unusually well-dressed ladies. They swept across the dining room to the far side and were seated. A hush fell on the assembly of ofschool to pass under this spot. He ficers and the ladies became the center of all eyes, for one of the channel catfish in this one hole. matrons was wearing an unusual-He explained that his estimate was ly attractive hat, trimmed with the ultra-conservative and the school snowy white plumes of the American egret.

"Under federal law, it is illegal to use the plumes of the egret for trimming or even to have them in possession. The wardens finished ing Regional Supervisor of Law "We visited with the farmer who | Enforcement for ten middle-western states for the U.S. Fish and for over 40 years and that as long | finished dining and came into the lobby, Davis stepped up and said, 'I telling me if those are egret plumes on your hat?' 'Why, yes, they are', promptly replied the matron, 'and I'll bet I'm in wrong for wearing them because my sister told me they were illegal.'

"Davis then presented the group and told the now startled lady who they all were. Further conversation developed the fact that the plumes had been obtained in India more than 20 years before when the lady had visited that country. They had been carefully preserved and were as beautiful as though they had just been plucked. The law was explained to the matron who now realized just what a furor her hat had caused, and she asked Officer Davis what he suggested. He replied, 'Under the law, the plumes must be confiscated, but patch of downed timber, obviously they are much too lovely to destroy so suppose that after you return home, you send the plumes to the State Historical Department Museum where they will be under the watchful eye of The State Museum Director.' "



Smallmouths up to nine pounds may be taken, but the average throughout the country varies from one to two pounds. Jim Sherman Photo.

Smallmouth Bass... (Continued from page 33)

from the largemouth, here are positive differences: with mouth closed, the jaw hinge, or maxillary bone, at its rearmost extremity will be directly below the eye of the smallmouth. On the largemouth, the maxillary extends beyond the eye.

Also, on the cheek of the largemouth, there are 10 oblique rows of scales, where the smallmouth has 17 rows. The largemouth has no scales at the base of the dorsal and anal fins while the smallmouth does have these.

In addition, the dorsal fins are different, since the soft and spinous dorsals of the largemouth are separated by a deep notch, while on the smallmouth the separation is very slight.

When seeking a scrap with a smallmouth, pass up the sluggish, unattractive waters and try your luck in the faster moving streams where the clear waters rush over rocky or sandy bottoms and swirl around such cover as undercut banks, boulders or logs. Deep, clear pools and the foot of riffles are excellent feeding places.

While smallmouths up to nine pounds are taken every year, these are certainly exceptions, for the average throughout the country and in the south slightly higher.

largemouth in the choice of foods same as any other fish. since it will eat nearly every type of digestible offering. Heading its the carp from a food standpoint is menu are: minnows, frogs, craw- that it is soft. This is true to fish, worms, insects, small water some degree, especially in shallow

muskrats, helgrammites, grasshop- months. Carp found in deep cold then may be worked into a sticky pers and larvae in general.

with smaller, more active spoons, underwater plugs, spinners with bucktail or pork rind combinations the same body of water. and noisy surface lures. Fly-fishermen get results with wet and dry flies, fly and spinner combinations, bulky hair lures and plastic or wood imitations of minnows, frogs, etc.

Bait fishermen prefer chubs, minnows, soft-shelled crawfish, grasshoppers, and helgrammites.

One final word of caution; the smallmouth is extremely sensitive to vibration, so, when nearing a prospective spot, use the utmost care in effecting a quiet approach. If wading, scoot the feet along as carefully as if stalking a deer; if fishing from a boat, approach the chosen spot from upwind and use both anchor and oars with discretion.

-Heddon Fish Flashes

Carp...

(Continued from page 33)

How did this fish gain such ill repute as a food fish? There are three important reasons and we will discuss them briefly.

First, the carp is charged with having a muddy taste. Let us see about this.

Like the largemouth bass and some other popular game fish, at certain seasons of the year and in certain waters the carp does acquire an unpleasant taste from its surroundings. This generally occurs in shallow water during the latter part of July and August when shallow waters become very warm. Many people have experienced the eating quality of carp from this type of water and have declared them bad.

Carp taken from running streams and from moderately deep lakes during the cool season of the year have a delicate flavor, superior to that of some of the popular native game fish. This is the collective opinion of the hundred thousand anglers who know.

The second charge against the carp is that it is boney. This is true. It has the same major bones as, for instance, the catfish; but in addition has numerous bunch bones above the lateral line from head to tail. These little bundles of bones are the cause of the difficulty but they are not of enough importance to condemn the carp as a food fish.

Small carp up to two pounds may be scored and these very fine bunch bones may be cooked and eaten without removing them. For larger fish, it is easy to determine will vary from one to two pounds, the pattern of the bunch bones and pick them out by hand. The re-The smallmouth resembles the sult is a bone pattern much the

The third major charge against snakes, field mice, small birds, baby lakes during the warm summer Sharman Photo.

water lakes and in streams remain ball. Casters will find best results rather firm fleshed even in July and August and do not become as soft as, for instance, crappie from

> Carp is a good food fish. An excellent booklet titled "Eat Iowa Fish," prepared by the Cooperative Research Unit, may be secured cost free by writing to the State Conservation Commission. The booklet contains dozens of recipes on fish cooking, as well as tips on dressing, handling the fresh catch, smoking fish, and other valuable information.

> Carp are a sporty fish and even the game fish purist will have to admit that a five- or ten-pound carp when taken on light tackle gives the angler plenty to think about before the fish is safely landed.

> Carp generally feed in schools They are located in streams much in the same types of water that catfish are found. Most fishermen believe, however, that if the school of carp moves into a hole the catfish move out. Although catfish are often taken in very shallow water even in the daytime, carp prefer deeper water during the daylight hours. Carp, for the most part, do not prefer to feed in the center of the channel, but like the quieter deep water holes, especially those that contain drifts where they feed with a loud sucking noise on the underside of logs.

> Carp baits are very numerous. The fish may be taken readily on fresh sweet corn, worms, and the white meat of crawfish tails. By far the most popular carp bait, however, is dough ball. Basic doughball may be made by stirring a cup of white corn-meal into a cup of boiling water and cooking about two minutes. The corn-meal

Some carp fishermen use a treble hook; however, the experts use a No. 2 or 4 single hook, upon which a small round ball of dough ball is formed.

Cook up a batch of dough ba!l and take it along the next time you go on a fishing expedition. If your favorite fish is sulking and will not take your bait, slip on a chunk of dough and see for yourself what a hundred thousand other Iowans already have learned.

J. D. REYNOLDS APPOINTED TO IOWA CONSERVATION COMMISSION

J. D. (Deg) Reynolds, Creston attorney and long interested in sports and conservation, has been appointed by Governor Robert D. Blue as a member of the Iowa Conservation Commission.

Reynolds will succeed Guy Young of Bedford, who resigned last August.

The appointment will be submitted to the 1949 state senate for confirmation. The term runs until 1951. Reynolds is a Democrat.

sci

tor

Un

Sch

sin(

for

flig

bee

abi

Wit

der

85

COV

he

plu

tap

Sou

mig

fin

tec

SOIL

the

sta

as t

the

Wh

froi

cav

Insi

he

CENTENNIAL *SNAKE HUNT

We see by the Winterset Madisonian that a rattlesnake hunt held one hundred years ago in Madison County is to be given centennial recognition. In the hunt in 1848, 3,750 of the venomous reptiles were slain. Apparently the hunters missed a few and now, 100 years later, the sportsmen's club in that county is going after those the pioneers missed.

-Chariton Leader



One hundred thousand lowans have learned that the carp provides fast fishing action and when taken from good waters in the spring or fall is an excellent food fish. Jim



The bat's radar signal is a series of high pitched cries. These cries are reflected or echoed back to his keen ears.

The Bat . . .

(Continued from page 33) This amazing system, antedating modern electronics by millions of years, has been revealed by two scientists working in the laboratories of Harvard University, Doctors Robert Galambos, now of the University of Rochester Medical School, and Donald Griffin. Ever since 1794, when Spallanzani performed the first experiments on the flight of bats, researchers have been trying to explain the bat's ability to fly in complete darkness without accident.

After proving that bats do not depend on sight to dodge obstacles blindfolded bats flew just as well as those that could see Galambos and Griffin made an important discovery: The bats blundered about helplessly if their ears were plugged or if their mouths were taped shut. To detect objects in their path, apparently they had to hear something. But what? Since they also required freedom to open their mouths, evidently they heard sound they uttered themselves.

To discover whether the bats might be producing sound inaudible to human ears, Galambos and Griffin borrowed elaborate sound-detection apparatus from Harvard's Professor G. W. Pierce, a specialist in supersonics. When the instrument, capable of translating supersonic sound waves into audible sound, was set up in the laboratory, the bats were again released. Instantly the apparatus gave out a tremendous, chattering clamor. The din continued as long as there was a bat in the air, ceased as soon as the last bat had tired of fluttering about the room.

When their tests were finished. the Harvard scientists had a complete picture of the bat's method of blind flying. This is what happens When a bat is about to take offcave, in a hollow tree, or on the on the cords. inside of your window shuttershe begins to send out his signals, detection apparatus is not known,

first, the cries are uttered at a comparatively slow rate, less than ten per second. Then, as the bat launches out into the air, they come faster, at a steady rate of thirty per second.

Now something happens. The bat hears a faint echo of his cries coming back to him-trouble ahead! Instantly he speeds up his cries, uttering up to fifty a second. The increased burst of sound apparently gives a stronger echo, telling his alert brain just where the obstacle is. He changes his course until the echo becomes fainter, dies away. Then, as he speeds safely past the tree or post or church steeple, his cries drop back to the cruising level of thirty per

Why don't we hear the clamor of the bat's incessant cries as he flits about overhead? It's a matter of the frequency of the sound wave. The bat's signaling voice lies in the wave band of about 50,000 cycles or vibrations per second. Human ears detect sound anywhere in the band from 20 to 20,000 cycles. The limit of hearing for dogs and cats is about 35,000 cycles, and for rats about 40,000. These figures are higher than those for any other mammals tested, except bats, which appear to hear sounds up to at least 98,000 cycles, perhaps higher.

Not only are they equipped to hear their own signals; bats have extraordinarily well-developed vocal apparatus for uttering these high-frequency sounds. For years, anatomists have marveled at the great development of the bat larynx. In one species, the African hammerheaded bat, this organ is so enormous that it is one third as large as the entire body cavity. In all bats, the vocal cords are short and tough. Large muscles are attached to the voice box in from his perch on the wall of a such a way as to put great tension

How bats developed their sonic a series of supersonic cries. At but of all animals they are most in

need of some such device. Practically all bats are night feeders and most live on insects which they capture on the wing, dodging, twisting and turning in intricate aerial maneuvers. Some live in dense forests, where they hunt among the trees. Others use deep limestone caverns as sleeping quarters. Entering and leaving the caverns, the bats must fly long distances through the pitch-black corridors.

Mother Bat Knows Best

The bat's radar system sometimes means more than individual safety. Mother bats carry their newborn young with them during the first days of life. The youngster clings to its mother's fur with claws and teeth, and rides with her far into the night skies as she searches for food. After a few days, however-perhaps when the young bat becomes too heavy to maintain his perilous hold-Mother leaves him at home, hanging him up in good bat fashion by his hind claws on the wall of their cave while she goes ahunting.

Fossil records, which often tell much about the beginnings of ani-

mals, are incomplete in the case of the bat. The earliest known fossil is quite a good replica of presentday models and helps not at all in revealing what the first bats were like or who were their ancestors. This first known bat lived in Eocene days, that curious period some sixty million years ago when tropical plants grew in Alaska.

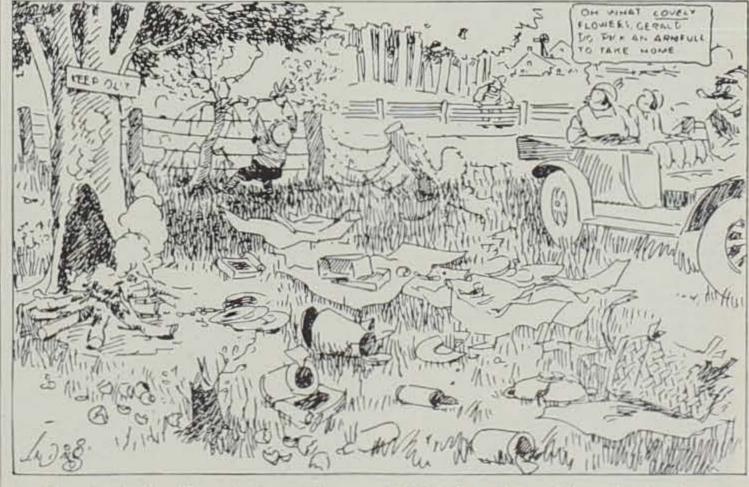
But long before the first fossil record, the ancestor of the bat, scientists believe, was a shrewlike creature, tree-climbing, flightless. When these forerunners of bats were learning, first to leap from tree to tree, then to make long glides from the treetops to the ground, and finally to launch out into aerial space, they must have developed, along with leathery wings, the special faculties that probe the darkness and make night flying safe. There must have been failures and fatal crashes in those early trials. We know only that those pioneering bats finally succeeded, that they perfected and used the counterpart of radar millions of years before man laboriously developed it.

-Copyright, Collier's Magazine, November 18, 1944

If We Treated Our Homes As We Do Our Woods



What A Lucky Thing Folks Never Took To Holding Picnics In Other Folk's Houses



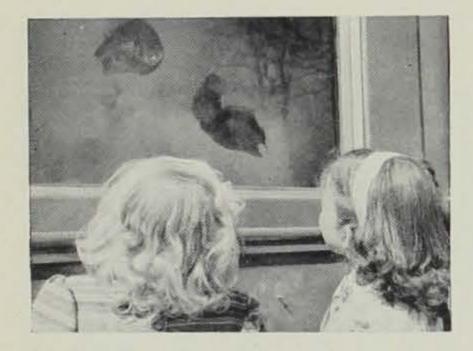
Moral: Take Your Indoor Manners With You When You Go Outdoors

Reprinted from "Our Great Out-of-Doors," published by Iowa Division Izaak Walton

TRAVELING EXHIBIT GOES TO SCHOOL



State Center school children view the new State Conservation Commission Exhibit during its first week on the road. Commission employees and teachers explain the various live fish and animal displays to the primary children while the upper grades are attending a 30-minute conservation talk in the assembly room. The exhibit is on a 5-week shakedown school tour, during which more than 30,000 school children will view the show. Photos at State Center School by Jim Sherman.



School children from near-by rural schools are brought by car and bus to the city school ground to see the wildlife show.



Conservation Officer Walter L. Harvey operates a slide projector while State Center youngsters absorb a recorded conservation



Lady, the exhibit's coyote, undisturbed by the student visitors, poses with dignity for the photographer.

th

m 42



resources.

A THE RESIDENCE OF THE PARTY OF



The antics of Penny, the orphan raccoon, is the reason for the intense attention of these youngsters, who in a few years will be responsible for the conservation of our natural school children of lowa as possible a few of the basic conservation principles.