IOWA CONSERVATIONIST

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APRIL 15, 1950

Number 4

PIGMY SINGERS OF THE PONDS

WILLOWS

By Roberts Mann **Forest Preserve District of** Cook County, Illinois

The willow was beloved in olden times as a symbol of sorrow and grace. In contrast, it reminds Englishmen of the willow bats used in playing cricket, their national game. To a Hollander, it means wooden shoes. To young Americans, however, it means pussy willows in early spring, willow whistles and fishing poles.

Willows grow rapidly and abundantly in moist soils and along the edges of water throughout most of the United States and in many other parts of the world. They are a conspicuous feature of the landscape along freshwater streams, lakes, ponds and marshes-sometimes as large picturesque trees with gnarled or leaning trunks and open feathery crowns, sometimes as dense shrubby borders, or as thickets covering many acres. Willows are plant pioneers, able to live on raw new soil wherever there is water. Also, because their tiny silky-haired seeds are borne long distances by wind, they were probably the first woody plants to gain a foothold in this region when it was uncovered by the melting of the glaciers. Dwarf willows are found on the barren lands beyond the Arctic Circle. Most willows range in height from a few inches to 20 or 30 feet. Certain alpine species at maturity are not more than an inch or so in height. In the Chicago region there are over two dozen kinds, to estimate the number of deer on which are very difficult for anyone but an expert to distinguish, but are difficult to make; however, suronly two native kinds reach tree size: the black willow and the peach-leaved willow. The golden willow originated in Europe, the weeping willow in China where, same manner and at about the with its long drooping branchlets, it frequently appears in Chinese decorative art. Both are ornamental shade trees. The crack willow and (Continued on page 32)



The songs of frogs and toads are perhaps a surer sign of spring than those of birds. Most of these amphibious singers have vocal sacs which when filled with air act as resonators, magnifying their spring songs.

By Kenneth D. Carlander and Robert B. Moorman Iowa State College

Some of the most delightful signs of spring are the evening trills of frogs. Their calls are perhaps a surer sign of warmer weather than are those of the birds. Since frogs are cold-blooded animals, their activity is more definitely correlated with the weather than is that of the birds which move north with the lengthening days. Soon after the ice and snow melt, forming pools and ponds in the low spots or in the ditches, some species of frogs come out of their hibernation and prepare for their courting season. The frogs which call the loudest and the longest are not the spotted leopard frogs with which you are probably most familiar. Instead they are small frogs, less than two and one-half inches long -so small that they are usually not seen. It is these small frogs which come out the earliest in the spring, often at least two or three weeks before the larger frogs will brave the icy waters. These frogs belong to the tree frog family, the Hylidae, and can be distinguished from other frogs because the tips of the toes and fingers are expanded into little suction cups. The skin of the belly is granular and not smooth years. In 1947 there were 1,650 like that of other frogs. With the deer reported, in 1948 2,024, and granular belly and the suction cups in 1950 a total of 4,530 were re- on the toes, the tree frogs can even ported (Table 1). This is a re- climb up the side of a glass jar or The spring calls of frogs are the number of deer in Iowa. The caused by air passing over the exact figures are not in themselves vocal cords in the larynx or voice important and are probably on a box of the throat. The sounds can very conservative side; however, be produced either above or below it is apparent that Iowa's herd is the water. The mouth is kept closed, and the air is passed back The results of the 1950 survey and forth from the mouth to the (Continued on page 30)



Tiny chorus frog, flanked by the familiar leopard frog and the giant bullfrog. The chorus frog is one of the tiny singers that call from every roadside pond in early spring.

IOWA DEER HERDS-1950

By Glen C. Sanderson **Game Biologist**

In early February of this year all conservation officers were asked to mark the winter ranges of the deer herds in their counties and each range. Accurate estimates veys similar to this one were conducted in 1947 and 1948 (Faber, L. F., 1948. Deer survey, 1948. Ia. Cons., 7(4):30 in about the same time of the year, so the results should be comparable.

The results of the 1950 survey population during the past two

ported increase of approximately cling to a window pane. 100 per cent from 1948 to 1950 in increasing rapidly.

further show that 89 of Iowa's 99 lungs over the vocal cords. In counties now have herds (two or addition, most frogs have vocal more deer) of deer as compared sacs which, when filled with air, to 78 counties in 1948. Only four act as resonators, magnifying the show a decided increase in the deer of the 99 counties were reported sound. In the tree frogs, these

(Continued on page 31)

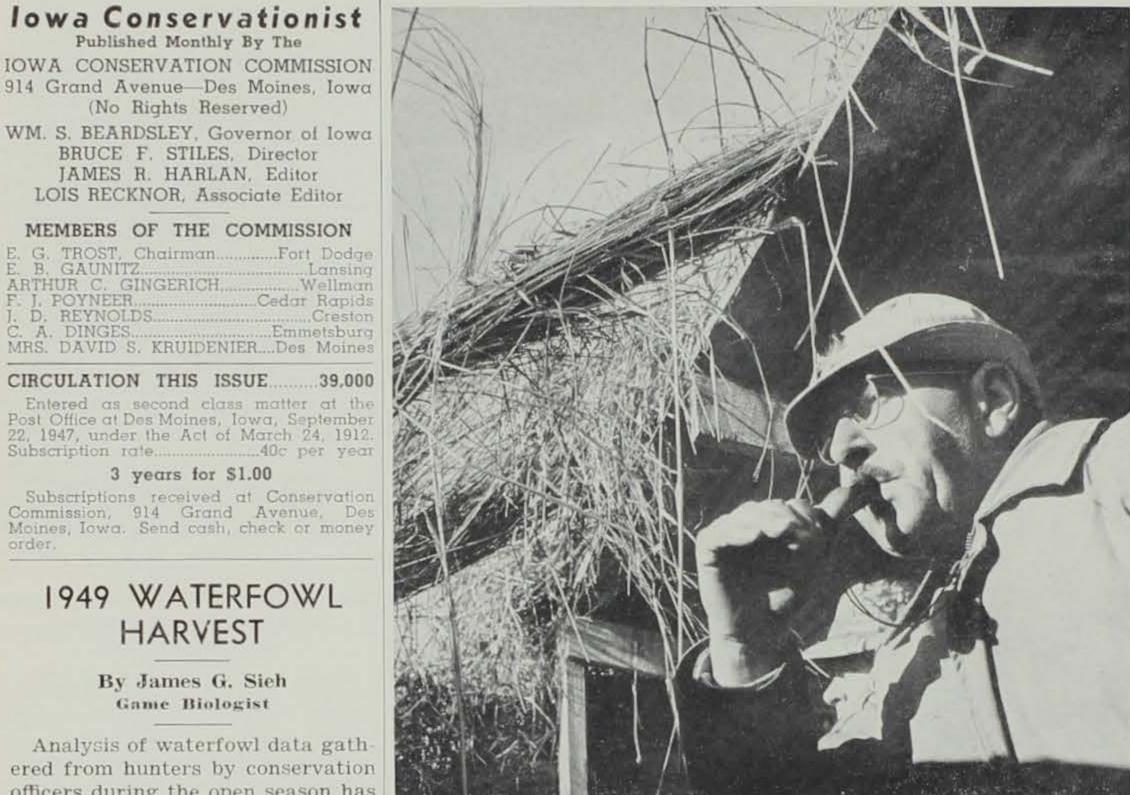
Page 26

B. GAUNITZ.

D. REYNOLDS.

A. DINGES.

IOWA CONSERVATIONIST



Conservation officers checked almost 6,000 duck hunters during the season. Fred Schwob, what kinds and how many ducks former state conservation director, making "mallard music" on Lake Odessa. Jim Sherman Photo.

(1949)

5,862

18,802

stamp purchasers. They had bagged 5,907 ducks and 725 geese. the kill statistics between 1948 and more blue-winged teal are killed North America. The waterfowl Last year's (1948) sample taken 1949 is the increased harvest of by 4,984 hunters totaled 6,086 geese and blue-winged teal. The

thanks to the hunters who cooper- ducks and 206 geese. The break- blue-wing is more vulnerable to ated in this waterfowl bag check. down and analysis of these figures an overkill because of its restricted draining duck marshes faster than in the table following is of interest nesting range and smaller total population than the more numer-The most important change in ous mallard or pintail. Generally many of the duck factories of

hours to bag a duck this fall, and 2.3 hunting hours last season.

Goose hunting was unusually good over the entire state. More than three times as many hunters killed a goose this year than during the previous season. The flight of blue and snow geese was the best in many years, probably the best ever experienced over the state as a whole.

Prior to the opening day large concentrations of ducks, especially teal, were present in almost every slough and marsh in the northern half of the state. Hunting was good for the first few days. Large numbers of waterfowl sifted through Iowa during the open season, but some of the late migrants, predominantly mallards, arrived after the closing date. These late migrants, for the most part, left Iowa just before Christmas with the final freeze-up.

The waterfowl situation in North America is still critical. The duck kill throughout the nation is enormous, and the gunning pressure in states like Iowa has reached record heights.

To improve waterfowl shooting in Iowa we must re-establish good waterfowl hunting areas as rapidly as funds will permit. We must also improve, increase, and wisely control the nesting areas which still remain within the state.

Private landowners are still they can be replaced in Iowa. This is unfortunately true elsewhere in

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3 years for \$1.00

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BRUCE F. STILES, Director

JAMES R. HARLAN, Editor LOIS RECKNOR, Associate Editor

MEMBERS OF THE COMMISSION

...Creston

Emmetsburg

HARVEST

By James G. Sieh Game Biologist

Analysis of waterfowl data gathered from hunters by conservation officers during the open season has been completed, and we now know found their way to the dinner table. We wish to express our

Officers checked 5,862 duck hunters, 11 per cent of the total duck to every duck hunter.

Sample of Waterfowl Harvest 1948 and 1949 10491

	(1940)
Number of hunters checked	4,984
Number of hours hunted	13,926

*

Species	Total Recorded Kill Numbers—1948—Percent		Total Recorded Kill Numbers—1949—Percent	
Mallard	3,327	54.7	2,735	46.3
Black Duck	38	0.6	26	0.4
Gadwall	120	2.0	185	3.1
Baldpate	58	0.9	34	0.6
Pintail	546	8.9	643	10.9
GW Teal	766	12.6	671	11.4
BW Teal	174	2.9	691	11.7
Shoveller	175	2.9	192	3.2
Wood Duck	114	1.9	133	2.3
Redhead	102	1.7	79	1.3
Ring-neck	48	0.8	52	0.9
Canvasback	47	0.8	94	1.6
Bluebill	439	7.2	317	5.4
Golden-eye	21	0.3	7	0.1
Bufflehead	30	0.5	11	0.2
Ruddy Duck	61	1.0	24	0.4
Merganser	20	0.3	13	0.2
TOTAL DUCKS	6,086	100.0	5,907	100.0
Canada Goose	39	19.0	150	20.7
Blue Goose	84	41.5	376	51.9
Snow Goose	70	33.1	187	25.8
WF Goose			9	1.2
Other Geese	13	6.3	3	0.4
TOTAL GEESE	206	99.9	725	99.9

during the first few days of the raised in neighboring states and any species.

Fewer mallards were taken this major sport is to continue. year. Probably lack of good duck weather enables the old greenheads to outsmart the hunters. It took the average duck hunter 3.2 losses.

Iowa season than any other spe- Canada contribute immensely to cies. It is desirable to crop the the bag of the Iowa hunter. We surplus of blue-wings but, of must help hold the line against course, undesirable to overharvest those who advocate unnecessary drainage if duck shooting as a

> In addition to being companions of the hunt, bird dogs help to conserve our game by reducing crippling



Fewer mallards were killed in Iowa this year, partly because of "bluebird" weather during most of the open season. Jim Sherman Photo.

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Echoes From The Past

(Editor's Note: This is the third of a series relative to wildlife in early Iowa. Additional excerpts from pioneer books, newspapers, and diaries will be printed in future issues.)

(The following are excerpts from Gal-land's *Iowa Emigrant*, published in 1840 and reprinted by the State Historical population. Quails are also nu-Society in 1949.)

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BIRDS

The groves in all this vast region of country, are enlivened with the morning matins and evening vespers of a great variety of singing birds.

The wild turkey, which was so population.

merous, but the pheasant is rarely seen. Swans, geese, brants, and an almost endless variety of ducks are in the greatest abundance along the rivers, upon the lakes, and not unfrequently upon the prairies.

Pelicans. These singular fowls, in the early part of autumn, often whiten the sand bars of the rivers and lakes-hundreds of them, on their passage to a southern latitude, alight together on a sand bar or island, and give it the appearance of a bank of snow.

The crow and the black bird are sufficiently numerous to be at times troublesome to the farmers. Bald eagles are quite common, while the grey eagle is scarcely ever seen. Buzzards and ravens are also frequently seen.

Doves and pigeons, a great variety of woodpeckers, and a few of the real woodcock genus, of a large size, are found in the country.

The little humming-bird is likewise often seen, examining the flowers for his food.

The honey bee is doubtless a native of this region: they are found in the greatest abundance, as we advance beyond the white

bottoms, which are of a sandy soil. This fruit is of an excellent flavor, and in some seasons can be obtained in almost any quantity.

Blackberries grow plentifully, in those places where the timber has been either cut down by the hand of man, or where it has been prostrated by hurricanes; these are also a very pleasant berry, but not so delicious as the strawberry.

Raspberries are not as plentiful as the foregoing, but they are very common in the country.

Gooseberries are in many places in the greatest abundance, and of the best quality; they are large and smooth and of an excellent taste.

Plums abound in a great variety of size, color and flavor, and grow on trees or bushes in a variety of soils, some of them are of an excellent flavor.

Crab apples are found plentifully about the head of water courses in the edges of the prairies, they are very large and make excellent preserves, having a fragrant smell and a fine golden color. Several varieties of hickory nuts, the black walnut, the butter nut, the hazel nut and the pecan, are plenty in many places.

Grapes. Both summer and winter grapes, and of several varieties, both in size and flavor are found in the country. Wild cherries, the black haw, the red haw and the paw-paw, are also found here.

Cranberries grow in the greatest abundance in the northern parts of this territory, and are obtained from the Indians by the traders in large quantities.



Young animals are almost never abandoned by their parents. Here a baby 'possum in the language of all infants cries, "Here I am, Ma!"

ANIMAL 'KIDNAPPERS' ARE SUBJECT TO PROSECUTION

In spite of widespread publicity and education, animals and birds are being subjected to an unprecedented wave of kidnapping by Iowans, says the Iowa Conservation Commission. Possession of protected young birds and animals is prohibited by law and each offense of animal- or bird-napping is punishable by a maximum penalty of \$100 or 30 days in jail. Conservation officials estimate that last year as many as 2,000 balj raccoons were held illegally in Iowa, many in an unsanitary and starving condition. Young animals that have been taken from the wild and held in captivity, even for a few weeks, when again released seldom are able to readapt themselves to the wild and soon fall prey to their natural enemies. Young animals found in the wild are almost never abandoned by their parents. Usually the youngsters have been left in hiding by the mother, or wandered away like mischievous children, and will be readily found by their parents unless kidnapped. It is not that we do not want youngsters to have animals as pets, but they should or unprotected species like the

Page 27

abundant on the Ohio in early times, is but rarely found in Iowa: I have, however, seen large flocks of them on the river Des Moines, more frequently than in any other part of the country.

greatest abundance, and more es- in prairies, and often on the second

WILD FRUITS

The earliest fruit, which ripens in the last of May or first of June, is the strawberry. It grows in bar-The prairie hen obtains in the ren land, or adjoining the timber



Galland found "swans, geese, brant, and almost an endless variety of ducks in the greatest abundance along the rivers, upon the lakes, and not unfrequently upon the prairies." Jim Sherman Photo.

NEW DINGELL BILL INTRODUCED

Congressman John D. Dingell of Michigan has reintroduced a revised version of his Federal Aid to State Fisheries Bill, which unanimously passed both houses of Congress last spring but which was vetoed by President Truman, the Wildlife Management Institute reports.

The new bill, H. R. 6533, would make the act effective on July 1, 1950, whereas the former would have been retroactive to July 1, 1947. It was this feature to which the Treasury Department and the President objected so strenuously. The present bill carries an authorized appropriation of \$2,000,000 for the first year's operations to permit administration to begin at once stick to white mice, guinea pigs, instead of waiting for a full year to pass so that revenue from the 10 crow.-Keota Eagle. per cent excise tax on fishing rods, creels, reels, and artificial lures could be determined. With these exceptions the new bill is substantially the same as the one vetoed at the close of the last session of Congress.

squirrels regularly have two litters per year in Iowa, one in spring and one in summer. Yearling females of structed so that they can close behind the same species normally have but a single litter their first year.

The tail of the beaver has many uses, but it is not used as a trowel or to carry materials. It is used both as a rudder and as a powerful propellor when the beaver is swimming. It is also used as a prop when a tree is being cut. Perhaps its most spectacular use is as a signaling device; it makes a slapping splash as a warn-Adult females of fox and gray ing to other members of the colony.

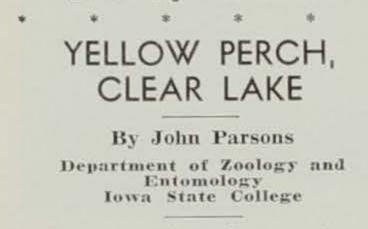
> The lips of the beaver are conthe incisor teeth, permitting the beaver to gnaw under water.

IOWA CONSERVATIONIST

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A few years ago large yellow perch were abundant in Clear Lake, often making up the total bag of ice fishermen.



Years ago the yellow perch was a frequent and desirable addition to most fishermen's catch at Clear Lake. Today there is a different story. During the past several years it has been all too evident to the fishermen that the perch are not only scarce in Clear Lake, but are also small in size.

A study of the yellow perch and other fishes of Clear Lake has been carried on since 1941 by the Iowa Cooperative Fisheries Research Unit. An analysis of the data collected has shown some marked changes in the perch population.

Why the perch in Clear Lake are small is, of course, an important

Clear Lake has not been suitable for the older and larger perch. A study of the 1949 Clear Lake perch indicated a comparative freedom from serious diseases and parasites.

The size of the perch has also been affected by a decrease in growth rate since 1941. This can be better explained by showing the size of the perch for each age group during the years of collection.

Total Length at Capture in Inches

	Age in Years			
	1	2	3	4
1941		8.0		
1947	4.1	7.2	9.1	
1948		6.0	7.8	10.
1949	4.7	5.6	6.2	

Of the fish taken 21 per cent were one year old, 66 per cent two years old, 12.6 per cent three years old, and .03 per cent four years old.

Apparently the perch have decreased in growth rate due to a change of habitat and feeding conditions. A study of the stomach contents of the perch has shown that their food consists mostly of insect larvae which live on vegetation. The submerged vegetation in Clear Lake has greatly decreased in abundance since 1946, and this decrease may be an important factor affecting the perch's growth. It might be mentioned here that although perch frequently bite on minnows in Clear Lake, fish were seldom found in their stomachs as natural food during the summer months.

That the Clear Lake perch have



The Weimaraner, according to its supporters, is changing all previous ideas of a dog's capabilities. Wichelman Photo. THE NEW DOG

By Gib Knudson, Jr.

Along in late March or early April the first Weimaraner will move to Emmetsburg. If you don't know what a Weimaraner (pronounced vymar-honor) is, it is a dog and, according to many accounts, the wonder dog of all time. Ted Girard is getting one of these "grey ghosts," as they are called, and he had to put in his order in December for a pup whelped the other day. He is

buying it from Wichelman's kennels at Gibbon, Minnesota, and his Weimaraner will be one of fewer than 2,000 in the United States.

up one of these pups as you would a dog of other breeds. Besides Then during the war a few were putting in an order long in advance and paying a hefty sum for the extermination. That was when

The dog works on all kinds of game, trailing fur bearers and pointing birds, and it is an excellent retriever. It is credited with a "vacuum cleaner" nose which can scent a pheasant or quail 100 yards away.

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It is almost beyond belief, the things these dogs can do, according to True. They have found pheasants where other gun dogs have found none and with a few hours' training have worked cattle and sheep better than old cattle and sheep dogs.

No breed has yet matched them in the perfection with which they pass obedience tests or the young age at which they do it. They have trailed men and found them. after bloodhounds have failed, and they are equally good trailing lions and other big cats.

They also praise these super dogs for doing such tricks as this: putting kennel mates away for the night in their pens and latching the gates. True said one even unhooked the receiver from a telephone when the bell rang in the owner's absence. The Weimar had learned it from observation and the person on the other end of the line could hear the sound of the dog breathing in the mouthpiece.

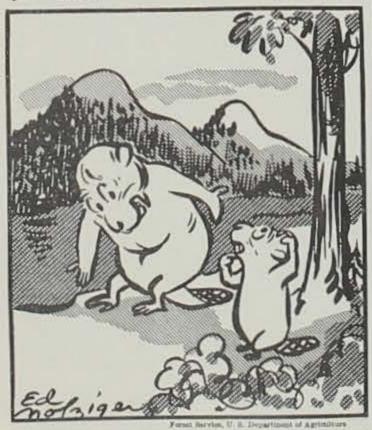
The Weimar is proof of what careful and restricted breeding can do. For 135 years it was found only in the castles of the lords of the Court of Weimar in Germany. You don't just go out and pick They saved and bred only the best dogs and jealously guarded them. sent to America to save the breed's

question. Biologists cannot always explain such phenomena, but part of the answer in Clear Lake appears to be that the perch simply do not live long enough to grow to a desirable size (over eight inches). Under normal conditions, fish tend to grow as long as they live. Of the 738 perch examined from Clear Lake since 1941, only two lived beyond three years of age. This is of significance since perch in other lakes often live five to six years and even longer.

There was no direct evidence as to why the perch were so shortlived, but apparently the habitat in

By Ed Nofziger

"JOE BEAVER"



In order to conserve water you must that so hard to understand?

decreased in abundance in recent years seems evident from the figures given below, which are based upon the average number of perch taken per hour for each gill net:

> 2.59 perch 1947 .31 perch 1948 .03 perch 1949

The future of the yellow perch in Clear Lake is a matter of speculation, but it appears that the perch will contribute little to the fisherman's catch in the next few years.

RACCOON OFF PROTECTED LIST IN LOUISIANA

A few years ago a valuable fur bearer, the raccoon now is classified as a predator in Louisiana.

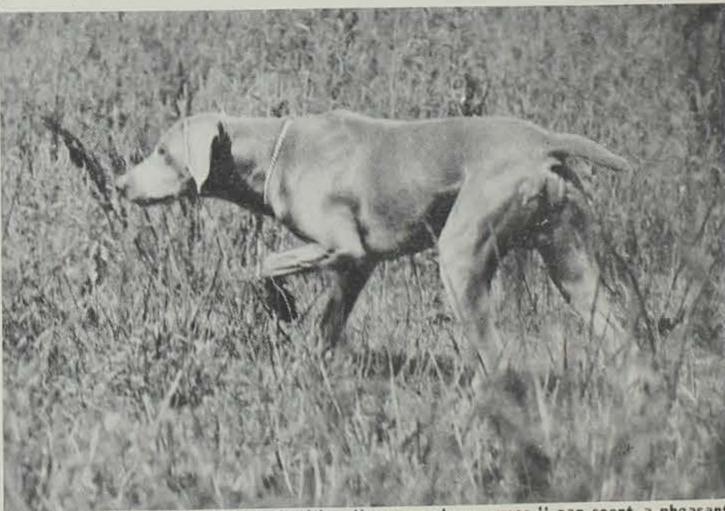
The pelts of the thin-furred marsh raccoons of the Gulf Coast marshes now bring such low prices that few trappers consider them worth skinning, even when they are caught accidentally, and none trap them deliberately. As a result, their numbers have increased steadily, and they are reported to be preying upon muskrats and nutria and to be robbing the nests of shorebirds and waterfowl. They are credited with robbing traps and even with invading muskrat houses. As a result of the dictates of fashion, raccoons everywhere have had an easy time of it during the past few years.

dog when you get it, you have to Hitler was ordering dogs killed join the Weimaraner Club of for food.

America by paying a membership restrictions.

like when hunting or solving prob- gives it the name "grey ghost." lems around the house.

The Weimaraner Club in this fee and agreeing to abide by its country is trying to keep the breed at its high standard. Members The Weimaraner has received must agree to breed their dogs much publicity recently in all only to other Weimaraners and kinds of magazines. A recent is- to destroy inferior specimens. The sue of True says the breed "is Weimar looks something like a changing all previous ideas of a German short-hair pointer, has the dog's capabilities." It is rated with short-hair's bobbed tail. But it an unheard of intelligence among is a solid grey and the color, along dogs, which makes it seem human- with its easy and powerful gait, -Emmetsburg Democrat.



Weimaraner, which is credited with a "vacuum cleaner nose," can scent a pheasant or a quail a hundred yards away. Wichelman Photo.

THE ORIGIN AND PROGRESS OF ANGLING

(Editor's Note: From An Encyclopaedia of Rural Sports, by Delabere P. Blaine, published in London in 1852.)

The practice of taking fish with a rod, line, and baited hook, is called angling, and although now more frequently pursued for amusement than for profit, was without doubt in early times an indispensable occupation, and was to our purpose, "Canst thou draw forced on man to obtain food.

Whether fish were first ensnared by line and baited hook, or whether other means preceded them, we have no opportunity of ascertaining. If conjecture be allowed to stand in the place of certainty, we should think it not unreasonable to conclude, that the fishes first obtained by man were such as he abstracted from the in the sands by the receding tide; these he would chase, and might either knock on the head, or transfix with a wooden spear.

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Observations made on the contents of the stomachs of such as were thus taken, would lead to a knowledge of the proper matters to use as baits for the enticement of others. His judgment would teach him to attach these around some small pointed and curved in the arts in the days of Moses; instrument, capable of fixing itself within the mouth or throat of the fish taking the bait, while he retained a communication with himself by means of some filamentary poon. vegetable or animal matter forming a line.

The adaptation of the line and hook to a pole or rod, was consequent on the necessity which soon became apparent, of casting and maintaining the line and hook at a proper distance. Such probably was the origin of angling. The Progress of Angling. The exact period when this art assumed the character of a regular and systematic practice is unknown: we have, however, sufficient proofs of its antiquity. Figures connected with it as an art, are among the earliest sculptured relics; and the classic reader cannot fail to trace notices of its existence throughout many of the only did the benighted individuals ment presents features of great works of the ancients. numerous proofs, that the use of hook and line in the taking of fish, was coeval with the early periods down to them. of the Jewish history; and also art, separate and distinct from any

other less artificial methods in use for obtaining fish.

In the book of Job (supposed by some to have been written by Moses), we find a portion of the forty-first chapter, which commences in the sublimest style of eastern poetry, peculiarly apposite out leviathan with a hook, or his tongue with a cord which thou lettest down?" In the next verse we read, "Canst thou put a hook into his nose?" etc. These interrogatories, it is evident, allude to the practice of angling with hook and line. In the seventh verse of the same chapter we also find the question, "Canst thou fill his (leviathan's) skin with 'barbed shallow pools, or from hollows left irons', or his head with 'fish spears'?" which has likewise been thought to allude to the use of the angling hook.

> But this opinion, notwithstanding the authority on which it rests, we conceive to be erroneous; on the contrary, we consider this verse as intended to characterise a mode of taking fish altogether distinct from angling. The Egyptians, we know, had made great progress and we have no hesitation in concluding that, by "filling the skin with barbed irons," was meant transfixing the fish with the har-

The traces of the art during the progress. dark ages are necessarily faint;



Angling in England a hundred years ago was a "top hat and tails" recreation, as shown in this old English print.

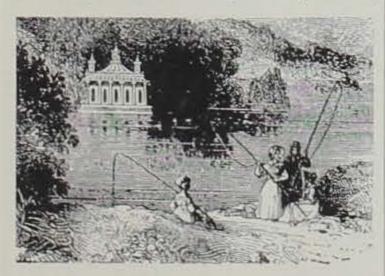
with numerous eulogists and com- one among the field sports that mentators, as may be seen in our takes so permanent a hold on the bibliographical notices, to which passions as this.

we would refer the reader who wishes more minutely to trace its variety it offers, for, like Proteus,

The Character of Angling as an

it presents itself under many forms, some of which are suited to the taste of every age, of every rank, and every variety of character and habit. The sedentary, the thoughtful, and the advanced in life, may watch the float as it slowly moves with the stream, without disturbance to their train of thought, or without any fatiguing exertion to their person. The active and volatile may throw afar the leaded bait for the pike, or may engage in the graceful evolutions of the fly rod. Its seductions therefore prove universal, and it owns votaries of every age and station. The little urchin catches the early impulse, and seeks the brook, where, with a length of twine, encircling by one In the sacred writings we have mitting any records of their own ous or expensive, but on the con- end a crooked stick, and by the on the subject, but also destroyed trary is productive of interest and other a bent pin, he toils in all the what had already been handed amusement without any great ecstacy of hope to ensnare the tiny banstickle, heedless of the The early history of angling in Its apparent simplicity allures terrors of a truant's punishment. Each year increases his passion, suit, and has consequently met believe with truth, that there is not the accomplished fly-fisher.

It is no less remarkable for the



"His late Majesty George IV created a sumptuous fishing house and thus added himself to the list of royal anglers."

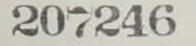


The seduction of angling proves universal. "The little urchin catches an early impulse and is heedless of the terrors of the truant's punishment."

who then lived refrain from trans- attraction: it is far from danger-

that angling was practiced as an Britain is confined within a very many into the practice; and as a small compass. The parent art triffing success elates the tyro and and now the spliced hazel twig and indeed may be traced in the vari- leads him on by its fascinations, horsehair links, the type of "things ous enactments made for its pro- so he pursues it, although he soon to come," assist his efforts; and suctection; but of that interesting discovers that extreme nicety and cess giving a new spur to his enerbranch which forms the subject of precision, great patience, caution, gies, behold him at length armed our discourse, even the industry of and perseverence, are essential with a rod of ampler dimensions Mr. Strutt in The Sports and Pas- requisites to the attainment of pro- and workmanlike manufacture, times of the People of England has ficiency in the art. Nevertheless, with the accompaniments of well failed to inform us. The first pub- he still continues the pursuit: wrought line, buoyant float, and lic notice which bears any claim difficulty after difficulty is over- tempered hook. Trolling now ento a systematic form among us, come; each succeeding year adds gages his attention, and emulation appears in the writings of the Lady to the interest of the practice, giving a continual stimulus to his Juliana Barnes or Berners: from which he continues with undimin- efforts, he rests not contented until that time to the present the prac- ished ardour to the latest period he has mounted the very feather in tice of it has been a favorite pur- of his life. It TASE ted Band we the cap of angling, and has we dome

and it may be remarked, that not Amusement. Angling as an amusepecuniary sacrifice.



DES MOINES, IOWA 50319

Page 30



The earliest spring singers are the tree frogs. These can be distinguished from all others because their toe tips are equipped with suction cups so efficient that they can climb a vertical windowpane. Iowa State College Photo.

SINGERS . . .

(Continued from page 25)

vocal sacs are just under the throat and may be swelled like bubble gum until they are much larger than the frog's head. Only the males have the vocal sacs, and they are the ones that do the singing in the spring. The calling is part of courting and apparently helps draw the females and other males to the ponds where the eggs may be laid.

Chorus Frogs

Chorus frogs, Pseudacus nigrita triseriata, are usually the first to welcome spring in Iowa. An individual call is a somewhat musical vibrating chirp or trill. It is high pitched (E above middle C to high C), but not shrill. The trill usually rises in pitch and increases in emphasis before stopping abruptly. Although the call is surprisingly loud for such a small frog (adults long as the rest of the body, but changed unless it turns foul. Some are less than one and one-half in other Iowa tree frogs the legs algae and other aquatic plants inches long), a single voice does are shorter. The cricket frogs are should be kept in the jar or aquarnot carry very far. The chorus the most active of the tree frogs jum to provide food. After they from the hundreds or thousands of and will usually depend more upon hatch only a few tadpoles should frogs in a small pond may be heard their ability to leap and swim than be kept for each quart of water over a half mile, however. The chorus frog can be distinguished from the other small Iowa frogs by the three dark stripes frogs feed mostly during the day, down the back. The general coloration may be from light tan to al- other species are mostly nocturnal. most black and may change somewhat depending upon temperature, the coloration of the habitat where the edges of permanent ponds, the frog was found, and its health. lakes, streams, and marshes. In the very dark individuals the three stripes may be difficult to frog family, chorus and cricket see. The toe discs are rather small, frogs seldom climb trees and the less than twice the width of the suction cups on their toes are toe, and the webs between the toes poorly developed compared to the and restoration of American game are but poorly developed. The last other two Iowa species, which are fishes. two to four joints of the toes are truly arboreal, or tree dwelling free of the webbing. The throats frogs. of the males are yellow in contrast to the white throats of the females. Since the chorus frogs frequent damp woods or marshy meadows, they are often known as swamp they are found only in the eastern tree toads. They are also some- fourth of the state, being known times called "harvest frogs" when from moist woodland areas in Allathey are uncovered during having makee, Clayton, Davis, Jackson, operations in moist pastures. They Jefferson, Lee, Linn, Van Buren

proaches a pond, but if you will forested areas in midsummer. remain quiet one or two males will soon start calling at a far end of rather short-legged frog with wellin until the chorus is almost deaf- the width of the toes. The back ening. By looking and listening is tan or brown with a darker closely, you should be able to lo- brown crossed mark, like an "X" cate a tiny frog near shore with on the back. just the head and vocal sac above water. Often you will be able to turn a flashlight on the frog withobserve the inflated vocal sac.

pond. Each cluster has from 10 into tiny tadpoles. In 40 to 90 days, the tadpoles grow legs and frogs five- to seven-sixteenths of an inch long. Most of the ponds in temporary and therefore the tadthe pond dries up.

Cricket Frogs

itans, breed later than chorus ally not calling until May or June. frogs and usually are not heard Permanent ponds are usually seuntil the latter part of April. The lected, preferably woodland ponds call resembles that of a cricket and with plenty of brush and other may sometimes be heard as late as shelter. August. A cricket frog is about the same size as a chorus frog but easily reared from the eggs, which may be distinguished by the fully can be collected as gelatinous webbed toes. The back and legs clumps from ponds in the spring. usually have many small warts. The water in which the eggs are In cricket frogs the hind legs, not kept should not be permitted to get counting the feet, are about as very warm and should not be will the other species which depend because they will not grow and upon their secretive habits and coloration for protection. The cricket jumping for flies, etc., whereas the Cricket frogs rarely are found far from water and usually live along Although they belong to the tree

are found in all parts of the state and Winneshiek Counties. The call and may be located in the spring is a shrill, high, clear, single, whistby anyone who will try to find tled note, usually repeated at one them in the evening as they trill. second intervals. It has a piercing At this time they appear in un- quality which may cause ringing believable numbers, almost out of in the ears when several peepers nowhere, to join in chorus in are calling together. The males shallow temporary ponds. Usually may even call during the daytime they will stop calling when one ap- and may sometimes be heard in

The spring peeper is a small, the pond. Soon others will chime developed discs on the toes, twice

Tree Frog

The common tree frog, Hyla v. versicolor, is the largest of the out startling him and then you can four species of Hylidae in Iowa, sometimes reaching a body length Soon after the courting starts in of almost two and one-half inches. the spring, clusters of eggs appear The skin is granular and the colattached to grass or twigs in the oration is extremely varied and may change from green to gray to to 300 eggs in a gelatinous mass. brown within a short time. The Within a few days the eggs hatch surfaces of the thigh region which are hidden when the frog is at rest are always bright orange-yellow, lose their tails, transforming into however. Tree frogs are most common in the eastern and southern part of the state but also found which the chorus frogs grow are in the larger wooded valleys in other parts of the state. The call poles must change to frogs before is a high-pitched, full-throated, birdlike trill lasting about fourfifths of a second. Common tree Cricket frogs, Acris gryllus crep- frogs are fairly late breeders, usu-All of the tree frogs can be quite ually lose their tails may be a very fascinating experience.

transform into frogs if they are crowded. Watching the tadpoles grow, develop tiny legs, and grad-

Wardens Jales Shop Talk From the Field

Maurice Jensen, conservation officer in charge of Clinton and Jackson Counties, writes:

"I have heard many stories about beaver, but this one, I think, tops them all. A farmer in western Clinton County had a creek through his farm, and he thought it might make a good farm pond if he put in a dam. After considerable investigation he decided to hire an engineer to survey the property and give specifications for installation of the dam. After the survey was made, but before construction started, a colony of beaver moved in from the Wapsipinicon River and the farmer didn't have time to do the work. The beaver built a dam across the creek exactly where the engineer advised its construction."

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Conservation Officer Vern Shaffer, in charge of Clarke and Decatur Counties, writes:

"While assisting Bill Ayers during the last pheasant season, we saw a car driving slowly along the grass roads and decided we had better see what was going on. We found a man, a dog of uncertain breeding, and a loaded and assembled rifle. The man's license was all in order, and I asked him, 'Don't you know that it's against the law to carry a loaded and assembled gun in an automobile on a public highway?'

IOWA CONSERVATIONIST

Spring Peepers

Spring peepers, Hyla crucifer, usually start calling about as early in the year as chorus frogs, but

WE WHO LOVE ANGLING

We who love angling, in order that it may enjoy practice and reward in the later generations, expert, was plug casting for smallmutually move together towards mouth. I hooked a nice bass and a common goal-the conservation after unhooking it handed my rod

our creel limits shall always be couple of casts, had a hard strike, less than the legal restrictions and and hooked the fish. I rushed always well within the bounty of back up the bank to give him some Nature herself.

morally charged in our time with I had ever seen. Instead of long, the responsibility of handing it fast runs and leaps, this fish fought down unspoiled to tomorrow's in- deep, hard and moved slowly. It (Continued on page 32)

"He said, 'No, sir, I didn't.'

"I opened the hunting law leaflet, and I said, 'read this,' pointing to the section.

"He studied the section carefully and said, 'Officer, I don't see that fine print so good.'

"When we took him into court it developed that he could neither read nor write."

Tom Berkley, area game manager, formerly conservation officer in charge of Chickasaw, Winneshiek and Fayette Counties, writes:

"Last summer my boy Don, age ten, and I were fishing below the lower dam in the Upper Iowa River at Decorah. I thought that carp were about all that a small boy might catch, so Don was fishing with doughball while I, the to Don while I walked down the bank a little way to put the fish Towards this end we pledge that on the stringer. Don made a expert help, then thought differ-Enjoying, as we do, only a life ently and let him go. The fish estate in the out-of-doors, and fought differently from any bass

(Continued on page 32)



western lowa's numerous deer herds break from cover, startled by the photographer's airplane. Fekun-Robbins Photo.

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(Continued from page 25) to have no deer at all, the same number reported to have no deer in 1948 (Table 1). In 1950 Franklin, Henry, Jackson, and Page is very close to the 1947 and 1948 counties were reported to be without deer, while in 1948 no deer a herd was considered as two or were known to be present in Audubon, Cass, Wright and Grundy average herd size may be too high, Counties. There are very few deer in the latter four counties in 1950. Occasional sight records were reported in five counties in 1950, as compared to eight counties in 1948. Scattered individuals were reported in only one county in

* *

In the 89 counties having herds present, 320 herds were reported. There were 3,507 deer reported in these herds, or an average of 10.9 deer per herd. The average size figure. During all three surveys more animals. This computed because small herds are more likely to to be overlooked than large herds and a few very large herds raise the average figure. These reported large herds may actually be two or more herds whose ranges are adjacent.

254

1950, as compared to nine counties By comparing distribution maps in 1948. Thus, 11 more counties for 1948 and 1950, it is at once aphave herds of deer in 1950 than in parent that the deer have extended 1948. This increase came from the their range in several places durcounties where scattered individ- ing the past two years. The spread uals or occasional sight records in range seems to be most apparwere reported in 1948, because the ent in northeastern Iowa, espesame number (four) of counties cially in Allamakee, Clayton, and were reported devoid of deer in Dubuque Counties; in central Iowa both 1948 and 1950. The present along the Des Moines and Raccoon distribution of the herds in Iowa is Rivers, especially in Dallas, Madshown by the accompanying map. ison, and Polk Counties; and along * * * * *

the Missouri River north of Council is a matter of prestige. He no long-Bluffs and Big Sioux River in er wants to be a bird-watcher but western Iowa. Perhaps the two- an ornithologist.

year increase is not as great as it appears to be on the map, because scattered deer may have been overlooked in the earlier surveys and in the past two years have increased enough so that they were noticed for the first time during this survey.

courses have a good population of deer, and it is no longer surprising to receive reports of deer from almost any location in the state. Probably every county in the state is visited by one or more deer sometime during the year. During times of floods, reports of herds of deer near the city limits of several of Iowa's cities are common.

ON RETAINING AMA-TEUR STATUS

By Thomas J. Feeney

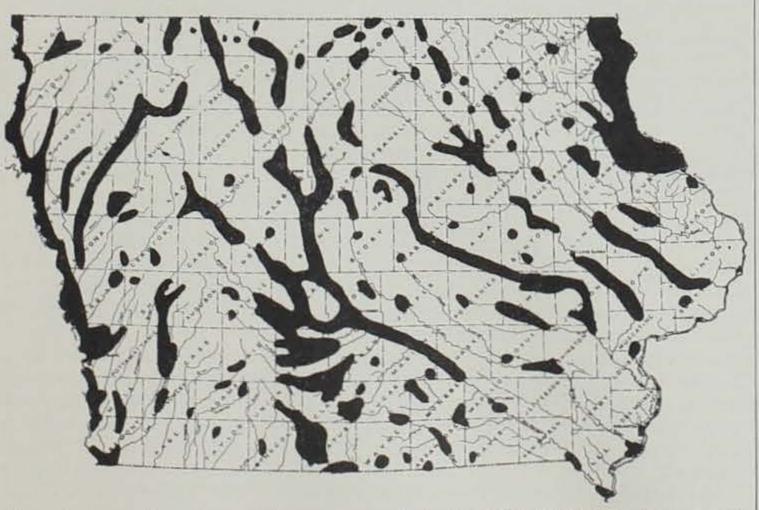
When Pancho Gonzales reached the peak in amateur tennis a few months ago, he went professional. When Doctor Middlecoff hit the apex on the golf links, he turned pro. The same temptation beckons to every bird-watcher when his life list hits 100 or more species. The reason is not to make money friends. out of his sport as the others. It

Now the chief glory of birdwatching is that it is a hobby, a pastime, and not a science. It is practically unique in its uselessness. Entomologists, or bugchasers, can so easily get involved in control of corn borers or the study of the disease-bearing in-Nearly all the major water sects. Rock-hounds have always the hope of a bonanza in a brilliant amethyst of great price or, particularly nowadays, equipped with a portable Geiger counter, of a precious and patriotic strike of pitchblende. Stamp collectors look toward a find worth a fortune. Only the bird-watcher remains as a complete amateur-the sole proponent of art for art's sake in the world of hobbies.

The bird-watcher seldom hunts with a gun for his table. And whereas they say it costs every hunter an average of over seven dollars for every duck he bags, if one similarly calculated equipment, especially binoculars, clothes, time, and gas, the bird-watcher may invest as much in each new species merely glimpsed and enjoyed by eye and ear, not by palate or pock-The bird-watcher may etbook. write up his notes for magazines, but he is happy in his payment not by check but in free copies for his The bird-watcher cer-(Continued on page 32)

TABLE 1-A comparison of the 1947, 1948, and 1950 deer surveys: 1948 1947 1950 8 counties 8 counties 5 counties Occasional sight records in

Scattered individuals in	22 counties	9 counties	1 county
Herds reported in	58 counties	78 counties	89 counties
No deer in		4 counties	4 counties
Number of herds	155	199	320
Number of deer reported	1,650	2,024	4,530

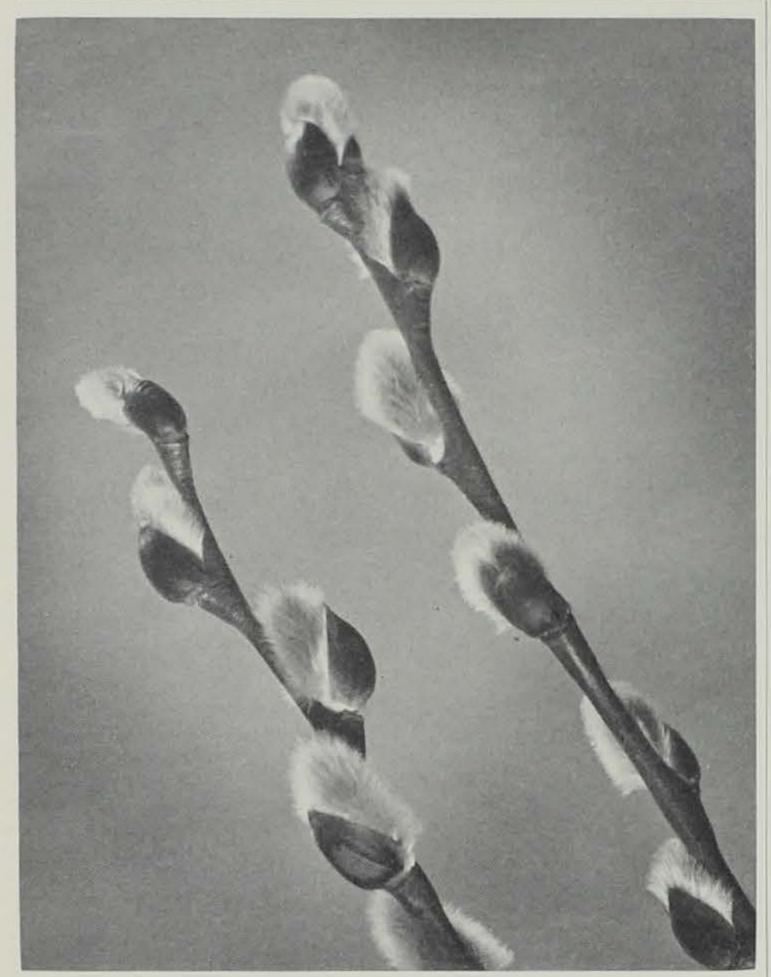


of 1949-50.



"The chief glory of bird watching is that it is a hobby, a pastime and not a science. Areas in lowa where deer herds were known to have ranged during the winter months Only the bird watcher remains as a complete amateur, the sole proponent of art for art's sake in the world of hobbies." Jim Sherman Photo.

IOWA CONSERVATIONIST



The male flowers of the willows are the pollen-producing "pussies." The female flowers, always on separate trees, pop open to release a cloud of cottony flying seeds. Jim Sherman Photo.

*

AMATEUR ...

(Continued from page 31) tainly makes no money from his sport and risks becoming a pariah to his family and regarded as queer by his neighbors.

We resent, therefore, current attempts, constantly growing, to make professionals out of us, ornithologists rather than bird-watchers, pseudo-scientists instead of nature lovers. The attempts are chiefly on the part of our own writers. Almost without exception they are professionals-men who are now earning their keep from what was once their hobby. They are employed by museums, universities, the Fish and Wildlife Service, the National Audubon Society, state conservation commissions, etc. This is as it should be. Professional ornithologists are necessary, but their number is limited. The rest of us should not pretend to be scientists and should not be encouraged by our writers and editors to consider ourselves as such.

whom I am forced to allude to as Bird Life. amateurs, thanks to the defects of the English language, merely because they do not spend their entire time at it, and are not paid for ornithological research." (Modern Bird Study, p. 10). Then he proceeds to show how unreliable are medium-sized white Lazy Ike-and the findings of the amateurs. Practically every recent book by a family." recognized expert has its little digs, perhaps unconscious, at us-the amateur will not be able to decide | cer in charge of Louisa and Musthe species in the field; very con- catine Counties, writes; fusing to the amateur, etc. This sort of thing goads the bird-watcher into pretending he is an ornithologist. In desperation he makes notations about Pheucticus ludovicianus perched on a branch of taxus canadensis, with date, wind velocity, temperature, and the middle names of his companions, instead of enjoying the glad sight of a rose-breasted grosbeak eating ground hemlock berries. The second way the writers made the headlines!" foster the increase of ornithologists and the decline of birdwatchers is by positive encouragement. For instance, Joseph Hickey, in his very inspirational book for the amateur, "A Guide to Bird Watching", tries to get us into a dither about contributing to science by studying life histories, exact counting of birds, reports to journals. No one can deny that the part-time student and hobbyist in any field does frequently contribute to the common mass of knowledge. But it is questionable how much contribution amateurs make to the science of ornithology compared to the mass of irrelevant material that is poured into our journals.

simple facts couched in stilted terms; with articles concerning the longevity of robins (pardon me, Turdus migratorius migratorius) expressed in algebraic formulae: with tables and charts that make the simple lay of the song sparrow as complicated as atomic fission. As yet, "Iowa Bird Life" has not succumbed to the disease. May it ever remain healthy."

As I write these lines in the fall enjoying the myrtle warblers, hermit thrushes, sapsucker and whitethroated sparrows as they pass through the yard, I await the arrival of the golden-eye and merganser and bald eagle. Yet, on what day the bald eagle appears and what species (or better yet, sub-species) of fish he may eat during his stay, though I observe it ever so closely, chart it ever so minutely, and report it ever so obscurely, will not, I think, contribute anything to the general knowledge of mankind or change the course of history in any way. Nevertheless, I shall make many Yet they do, in two different trips to the river and watch with ways. First, by slighting and snide eyes watering from the wind, tryremarks at the amateur. Ludlow ing to be the first in the vicinity Griscom, who is perhaps as kind to report the bald eagle. With pride as any of the pros toward us, de- I am content to be a bird-watcher fines the amateurs as "people and not an ornithologist.-Iowa

TALES

(Continued from page 30) was fully ten minutes before Don finally beached his catch. He had two 14-inch bass hooked on the I am the expert fisherman of our

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WILLOWS

(Continued from page 25) the white willow, which become the tallest and most valuable of our willows, were also introduced from Europe.

In spite of the fact that the fastgrowing, fine-grained soft wood of the willow has little value for lumber, fuel or durability, it has many other uses. It does make a fine grade of charcoal for medical or chemical uses-especially gunpowder. Large quantities, three inches or more in diameter, are cut to make paper pulp. The tough wood of the larger logs is used for crates and boxes. Artificial legs are often made of it. Further, willows grow readily from cuttings and are often planted as windbreaks, as living fences, and to control eroding banks or gullies with their dense mats of reddish-orange roots.

Among the many shrubby species, some have special uses. The basket willow and others called osiers are cultivated for the manufacture of wickerware and wicker furniture. The tough bark of some kinds is used as string or twisted into rope. The bitter inner bark is used in tanning hides, and formerly for medicinal purposes, for poultices, and as a substitute for quinine. The common sandbar willow stream banks and newly construc- without apparent harm.

ted earth dams and levees where they quickly take root to form a living protection against erosion. Willows, with their masses of water-loving roots, often do dam-

age by clogging tile drains and drainage ditches on farms. In cities, as street trees, they do similar damage to drains and sewers. The male flowers are the "pussies" which produce the pollen. The mature female flowers, always on separate willows, pop open to release a cloud of cottony flying seeds. In spring, honey bees swarm about the flowers for early pollen and nectar. Willows are a favorite winter food for rabbits, beaver, deer, elk, moose, and also many birds which feed on their buds.

Willow switches are sometimes used to tan boys' hides.

One of the most interesting groups of aquatic insects are the caddis flies. The larvae of many species build their own portable houses that they carry around on their backs. Small sticks, pieces of vegetation and grains of sand are used. These portable houses are often so uniform in pattern and material that many larvae are known by the houses they drag about.

The common eel will leave the water and make overland forages into swamps and wet meadows to feed on frogs, etc. They have been is woven into large mats placed on kept out of water over 24 hours

As a result of such encouragement our magazines are becoming repulsive by overloading with is ours and theirs .- Anonymous.

Dan Nichols, conservation offi-

"When I got home for dinner a while back the family was discussing an article in the paper in which it was reported that a local hunter had received a 30-day jail sentence for threatening me with his shotgun when I arrested him for hunting without a license. My fourteen-year-old daughter exclaimed without thinking, 'Gee, pop, it's too bad he didn't shoot you! Then you would really have

"After she thought what she had said and started explaining, she became more and more flustered and then almost on the verge of tears said, 'Well, dad, you know what I meant, anyway.' "

ALL WHO LOVE ANGLING . . .

(Continued from page 30) heritors, we individually undertake annually to take at least one boy a-fishing, instructing him, as best we know, in the responsibilities that are soon to be wholly his.

Holding that moral law transcends the legal statutes, always beyond the needs of any one man, and holding that example alone is the one certain teacher, we pledge always to conduct ourselves in such fashion on the stream as to make safe for others the heritage which