STATE OF IOWA 1922

REPORT OF THE

State Fish and Game Warden

FOR THE

Biennial Period Ending June 30, 1922

W. E. ALBERT, Warden Des Moines

> Published by THE STATE OF IOWA Des Moines

LETTER OF TRANSMITTAL

HONOBABLE N. E. KENDALL, Governor of Iowa.

Sir: In accordance with the provisions of the law, I herewith submit the twenty-fifth report of the Fish and Game Department, covering the biennial period ending June 30, 1922.

Respectfully submitted,

W. E. Albert, State Fish and Game Warden.

BIENNIAL REPORT OF THE FISH AND GAME DEPARTMENT

July 1, 1920, to June 30, 1922

A student of the general trend of everyday affairs and the many movements that are lining up with interest in the out-of-doors cannot but be impressed with the fact that the situation today, pertaining to the rural sections of our country, has taken on an importance and significance that mean that never again will the dwellers of our land stand indifferently by while individuals, under the impulse of an ulterior purpose, are permitted to work havoc among our hills and waters, the trees and plants that flourish on mountain and plain, and the living creatures that people these areas and live among the brush and in the stream.

The voices that have been striving for recognition have at last been heard, and the old feeling prevailing, that as far as natural resources were concerned, we had enough and to spare, has given place to the unsettling realization that unless we go in immediately for a drastic system of protection and conserving, we shall quickly find ourselves in circumstances dire and disturbing to a degree.

An impassionate and logical view of existing conditions clearly indicates the present generation to be getting busy in the matter of wild life protection, in the interest not only of the present, but also of the future. The people of today hold in trust a world for the people of tomorrow, not only to be safe and satisfactory to live in from the standpoint of an intelligent and progressive civilization, but a world that shall, as far as possible, maintain its natural and out-of-door beauty.

In both these respects men and women of today have a great responsibility resting on their shoulders.

For many years the United States has been witness to the fact, that in the development of the country from a commercial standpoint, little or no attention has been paid to the mischief that has been caused by interfering with natural conditions, without any thought of damaging results that might follow. The one aim has been to

carry the commercial enterprise through, and let nature take care of herself, notwithstanding the additional handicaps thus placed in her way.

This procedure has not all been due to a selfish determination to carry out a project whatever the consequences to someone else, Ignorance of underlying conditions and the laws that govern them have, in the past, been largely responsible for many an unfortunate course that has been taken. On the one hand, where forest areas have been leveled without discrimination, and waters have been rapidly drained in order to accomplish certain results, there has been the thought in the mind that both wood and water were so plentiful there was no fear of exhausting them. On the other hand, there was never the ghost of a conception that in the areas of wood and water, mountain and plain around us, there was an attitude and relationship one to the other, in the highest degree scientific, and that called for the closest investigation and study, and particularly when any enterprise was projected of a character that would modify and interfere with the environment as man found it.

And again, this has been especially emphasized from the fact that the great army of wild creatures, mammals and birds, as well as the myriads of smaller creatures, have much to do with this. They are intimately associated with the world's welfare, which means that these living things are intimately associated with the welfare of the men and women living in the world.

Nothing can be more evident than that a subject such as this opens up an avenue that is both fascinating and vital in its appeal, and particularly does such an appeal come straight home to the thought and heart of the dwellers of such a state as our own. Iowa has comparatively little of what is known as rough land. Very largely, every acre can be brought under the plow, and be made to yield a crop of cereals or vegetables. And here a great danger lies, as moved by a desire to make every foot of ground yield something that will sell, the farmer cultivates too much, and cuts down too much and drains too much. This drastic interference with the course of nature deprives the wild birds of a home, and the wild birds are a necessity in policing the farmer's crops, especially in the spring of the year.

And thus the State Fish and Game Department, whether it wishes or not, must of necessity investigate along lines such as we have been considering. Compliance with the responsibility placed upon it means that, at all times, it must direct its attention to the life and environment of the whole out-of-doors, as this cannot be separated from the welfare of the living creatures, which are so closely identified with the out-of-doors.

In the future, in an intelligent endeavor to promote the largest possible increase in the number of game birds and species of fish that will be desired by the residents of Iowa, we feel that the closest and most friendly co-operation is necessary among all, not only those animated by the same ideas, but persons who, while deeply interested in the conservation of wild life, yet work from different motives.

There are those who, enthusiasts all the time for wild life protection, never wish to take a toll of that life, while others, such as sportsmen, equally enthused in the same direction, reserve to themselves the right, under the laws of the state, to engage in a day's shooting now and then.

In the past, these two classes have not co-operated as they might for the general good, not through any basic cause of unapproachable divergence, but through really not understanding each other. The man so much in love with the wild creatures that he cannot understand why any person could wish to shoot them, may find it difficult to gauge the attitude of him who is not built that way, but he is duty bound to respect the sportsman's right to what the law concedes to him, particularly when that sportsman, as is so often the case, does his best to protect and propagate that life during the seasons of the year when no shooting can be done.

For the welfare of all concerned, this co-operation on both sides of the fence is most desirable and necessary. No true sportsman wishes to see the number of the game creatures lessened; he would much rather witness their increase, but in view of the changing conditions unfavorable to such increase, which must come with growth of population, etc. (unless something unusually drastic can be accomplished to antagonize these conditions), a policy must be evolved, resulting from such co-operation, which will result in permanent benefit all round. No true sportsman will wish to advocate a course that means striking at the source of the supply of that he seeks to multiply. Rather will he be ready to counsel with those, who by long experience and investigation, are best fitted to plan and advocate the course for the state to pursue in the matter of remedial legislation and enlightened supervision.

In the support that this department can obtain through the sympathetic and hearty action of the farmers of the state, and which they are doubtless ready and willing to give, very much is expected and it will certainly be duly appreciated. The farmer is the custodian of Iowa's broad and fertile acres, and in such connection, is supervisor of the state's trees, streams and water areas. All this has a vital and intimate connection and association with the well-being of the living creatures that are found on the farms, and many of which are so necessary to the welfare of those farms. For instance, how far would the crops get that start with spring-tide, were not the busy, insectivorous birds at work, keeping down the myriad forms of life coming into activity with the warm days?

Not very far, we are all ready to concede, and thus it becomes of vital interest to the farmer that adequate provision be made for these splendid little bird policemen, who come up from the south, so ready to do their part in caring for the growing crops. These birds want more and better nesting sites, as too much brush and undergrowth has been cut away, leaving no proper place where the little mother can locate her home and rear her family. Brush and undergrowth are to the birdlings what the architect's last creation is to the human. Hence the wise farmer will, wherever he can, cultivate patches of trees, preserve swar o areas and foster underbrush; the last named might be done per ... 28 by planting something that would be of commercial value to the farm, while at the same time providing cover for the bird.

A great responsibility rests upon the agriculturist along the foregoing lines, and, judging from the magnificent strides the Iowa farmer has made in scientific and economic procedure in the recent years, it may be reasonably assumed that equally efficient service will be rendered, under conditions such as herein outlined and where the call is so clear and consistent.

The waters of Iowa, particularly when it is remembered that the eastern and western boundaries of the state are sections of the two most important rivers of the country, at once indicate important fishing interests. This division of the department's area of operation naturally demands special administration, a constant and detailed supervision, which cannot be unduly emphasized. And this is a reminder that it is a matter of lively satisfaction to the department that an interest in fish and fishing, from the standpoint of the amateur angler, seems to be springing up in various parts of the state. We believe this to be a healthy sign of an attitude towards a recreative pursuit, which cannot be but of economic and moral value to many a community, and any information or aid that the department can render will be cheerfully given.

SUGGESTIONS FOR IMPROVING THE FISH SUPPLY IN CLEAR LAKE, IOWA, WITH SPECIAL CONSIDERATION TO THE INCREASE OF GAME FISHES

(By H. L. Canfield, Fish Culturalist, U. S. Biological Station, Fairport, Iowa)

An examination of Clear Lake, lowa, was made by the writer September 25, 24 and 25, 1921, relative to conditions affecting the fish supply of the lake, with a view to determining possible ways of bringing about an increased game fish production.

General characteristics of the lake

Clear Lake is about 5 miles long and 2 miles wide at its greatest width. Its greatest depth is about 25 feet, the shores sloping very gradually to the deeper water. The general source of water supply is in all probability bottom springs, rainfall contributing directly and indirectly to the supply. The Iowa Lake Bed Survey report of 1917 gives the area of Clear Lake as about 3,643 acres, with a drainage area of about 8,400 acres of farm land. The shores of the eastern part of the lake are occupied by the town of Clear Lake, Iowa, and numerous summer coltages which extend around the end of the lake from the western outskirts of the town of Clear Lake to Dodge's Point on the opposite shore. This part of the lake is widest and deepest. The shores of the western part of the lake are for the most part unoccupied, and the lake becomes shallow, the shores nearly meeting at a point about 5,000 feet from the bridge and roadway at the extreme western end of the lake, forming a shallow little bay which is not navigable to any but the smaller boats. The bottom of this little bay is covered with a large variety of submerged aquatic plants. Beyond the bridge and roadway a shallow slough of some proportions extends, which contains a still greater variety of aquatic plants, including cattails, rushes, sedges, pond lilies, wild rice, etc. The bay with the adjoining slough provides spawning and feeding grounds for many of the fishes and comprises the most favorable "nursery" for young fishes to be found about the lake. It is regrettable that like conditions are not more abundant, as the lake is too free of shallow, marshy sections. The lake bottem throughout is quite well stocked with a variety of submerged aquatic plants and skirting the entire lake, except in very restricted sandy areas, a growth of bulrushes prevails off abore and just beyond the line of greatest wave action. These bulrushes grow from three to five feet above the water surface at a depth from three to ten feet, and while troublesome to boats and launches, they do not hinder their passage. These bultushes provide useful protection to fishes in escaping their natural enemies.

The lake bottom

The shores of the lake are firm, clean and very gradual, practically all being sandy with some gravel for a distance of about 25 to 100 feet into the lake. These conditions are due no doubt to the wash of the waves. Beyond these shores, which constitute the inner growth line of bulrushes, mud bottom prevails except for occasional patches of blue clay and the several sandy bars. The mud is composed of a slick, slity gray soil, samples of which are odorless and at the time of examination were quite free of the small animal organisms which inhabit favorable lake bottoms. This slity mud lodges on the aquatic plants in the lake and was noticed repeatedly on the mushroom anchors of the boats in use on the lake. A pole thrust into the bottom often went some distance through this mud before sand or clay was touched. Patches of the blue clay were in evidence now and then and occasionally a fine, sandy, loose soil with fibrous plant growth was located, but the greater portion of the bottom is composed of the slity mud described, which cannot be said to be generally favorable to the propagation of small aquatic organisms, the slit interfering with their locomotion, breathing and general welfare.

Aquatic plants

Conditions here favor the growth of aquatic plants and the lake is provided with an abundance of submerged varieties. It is said that previous to the "coming of the carp" they were so numerous as to be objectionable, having about taken possession of the lake, but since carp were introduced some years ago this vegetation has been reduced materially and held well within bounds. Present-day conditions seem to bear up this assertion. The growth of aquatic plants is, of course, a source of great food supply for game and other fishes indirectly and to some extent directly. Indirectly as a producer of microscopic and other small food and directly as contributing food for fishes on which game fishes feed. The following aquatic plants were gathered from Clear Lake and represent only a small part of the flora of the lake. For their identification I am indebted to Prof. H. Walton Clark, of the U. S. Biological Station, Fairport, Iowa: Scirpus validus, Potomogeton pectinatus, Potomageton, Chara, Cladophora, Myriophyllum venticillatum, and Natas flexilis.

The available food supply for game fishes

Examinations of bottom soil and aquatic plants do not show quantities of organisms available as fish food except in restricted areas, and while this condition is to be expected to a greater or less degree at this time of the year, the fishes of the lake having harvested a great part of the population, still a greater amount of animal organisms should be in evidence if the lake is amply stocked with them. Doubtless there are myriads of these small organisms to be found in the lake, but that the lake is shorter in its supply due to the silty condition of the mud bottom seems to be a fact in evidence. This, of course, limits the food of fishes accordingly, but it is a condition not easily overcome. The abundant growth of aquatics, however, helps materially to cover the loss caused by the unfavorable bottom.

Dealers in live bait find it necessary to collect practically all minnows to supply the demands of summer pole and line fishermen from near-by creeks, although it is reported that two varieties of minnows are quite plentiful in the lake previous to and after the close of the summer season. Large schools of shiner and other minnows are said to come into the clean, sandy shores (wave washed area) to spawn in the apring, and revisit these waters to a lesser degree in the fall to obtain food in the shoal

warm areas. What is known locally as the "sun minnow" or "greaser" is sometimes caught in limited numbers during the summer months, but the supply of minnows cannot be especially abundant or they would be available to some extent in aummer.

That carp are quite abundant in this lake is general information, and the writer had easy opportunity to substantiate this fact. The exact date of their introduction into these waters is not a hand, but it is likely that the buffalofish preceded the carp, the buffalofish being an inhabitant at this time and an American native fish. That the carp outnumber the buffalofish 500 to 1 is probably not underestimating the buffalofish popuistion of the lake. This condition seems to bear up the statement that there are not the numbers of animal organisms in the lake bottom that are found in the cleaner-bottomed lakes, for buffalofish compete successfully with carp where bottom conditions are favorable to the growth of small animal organisms. Like the carp the buffalo fish consume quantities of aquatic plants, but of the two fishes carp are the greater vegetarians. Knowing the lake with its mudy bottom and abundance of aquatic plants it will be easily understood that the lake is favorable to carp production. That carp are very beneficial to the game fishes of this lake in furnishing them a supply of young carp as food cannot be successfully contradicted. Without them the game fishes would reduce their own numbers materially through cannibalism as a result of shortage in "minnow" food.

Carp as forage fishes

Local estimates are that one ton of game fish a day is removed from the lake during the summer season by pole and line fishermen. That estimate is perhaps large, but it is certain that large quantities of game ash are removed daily throughout the entire summer, and these fishes, with the exception of the pike perch, pickerel and yellow perch, are fishes which produce very small broods and all are preyed upon during their incubation and before attaining fingerling size by aquatic enemies other than fishes too numerous to mention, as well as by fishes of all kinds, including their own species and even by the parent fishes. All of the game fishes are predactous and will have live bait and plenty of it, and the quantities of young fish required to satisfy their requirements is simply enormous. This means that there must be forage fishes available or the game fishes for the most part will reduce their species through cannibalism. The true minnows, the young of carp, buffalofish and other like fishes provide this food in greatest quantities and are therefore indispensible to the game fishes. The minnows have very small broods, often not more than 25 to 50 eggs being deposited by one female, while a female carp weighing 5 pounds will average about 500,000 eggs. It will be easily understood that carp are the big game fish live bait food producers in this lake.

Carp, when allowed to increase without restraint, grow large, become obnoxious, and finally defeat the purpose for which they are so valuable. Is a lake so favorable to the carp as Clear Lake an increase in the numbers of large carp is to be expected and they should be kept "fished down" or eventually they will injure the game fish production through

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competition in the pursuit of food. Not directly, but indirectly, by destroying the plants on which small aquatic organisms subsist and bringing about by bottom feeding conditions unfavorable to small food organisms and fish life.

That carp and other like fishes, and not just the game fishes, should he removed from waters in the interest of maintaining a proper balance. is obvious, but to exterminate these valuable forage fishes would be foolish indeed, even if it were practicable to do so. Fortunately the commercial fishes can be kept within bounds in most instances at no expense; in fact, often at a profit, by commercial fishing, and this should be done whenever needed. Clear Lake with its present supply needs commercial fishing for carp, bullheads and catfish.

Bullheads and catfishes

These fishes are bottom feeders and, while contributing very little as food to game fishes, devour eggs of pike and other fishes that deposit their eggs on the bottom; therefore, they should be "fished down" for the benefit of the game fishes. In Clear Lake great quantities of builheads are to be found, and as this fish is not fished for by pole and line fishermen to any extent, its numbers are becoming a menace to the game fishes.

Commercial fishing

The writer accompanied Mr. Z. Magoon, local commercial fisherman operating in partnership with Mr. Frank Vernon, and had opportunity to examine the equipment, inspect the fish and see the method being pursned in their capture. These fishermen operate five tyke nets with long leads in each "outfit" and are said to fish two such outfits, although fishing only one while the writer was at Clear Lake. The outfit observed was about 3,500 feet long and 10 feet deep, with wall leads of 21/2-inch mesh into which were woven 5 six-hoop nets of usual tunnel construction. spaced at about equal distances apart. The outer hoops were about 5 feet in diameter, the outfit being simply a series of fyke nets with long leads.

The method of fishing is to stake one end of the net, then lay it out from shore around the outer edge of the bulrushes and back to shore at a distant point, thereby completely encircling, by means of the net and shore, an area in which carp has been previously observed working. After one to three days the carp finding themselves entrapped attempt. to pass the net barrier and enter the hoop funnels of the fyke net, from which they are removed twice daily by the fishermen, who take them to their fish market at Clear Lake to ship or retail, or to their fish retaining pens near Venturia to be held until needed.

The pen in use consists of two sections, each about 25x25 feet, constructed of board fencing driven into the lake bottom, in water 3 to 4 feet deep. Near the pens on the shore a little shack has been built as quarters for the fishermen and storage for their equipment.

The method of capture in practice by commercial fishermen on Clear Lake, nets being attended regularly, injures as few fishes as could reasonably be asked, the loss being practically nothing, but to operate seines of large mesh under supervision after the close of the summer season and before the weather is severe enough to chill the game fishes that would be caught and returned, would perhaps be more agreeable to the summer visitors, as the space now taken on the lake by set nets during the summer would be avoided. This method should not be objectionable even in midsummer and if handled properly might be an attractive feature. The plan would be as satisfactory for removing the rough fish as the method in practice now and possibly it would be a better business proposition to the state and to the commercial fishermen as well. The present method of fishing, however, is not harmful to the game fishes.

Fishes captured

The following varieties of fish were seen in the nets of the commercial fishermen, all of which were returned to the waters except carp and buffalofish; carp, buliheads, striped bass (local name silver bass), crappie, bluegill, pike perch (wall eye), yellow perch, channel catfish, buffalofish (I. cuprinello). The great quantity of fishes captured by commercial fishermen are carp and bullheads, while the pole and line fishermen catch mainly silver bass and yellow perch.

Quantities of the various species of fishes to be found in the lake are here listed in the order of their approximate numbers: Carp, sliver bass, yellow perch, bullheads, sunfish, crapple, black bass, pickerel, pike, sauger, buffalofish and catfish.

The pickerel are highly estcemed here by pole and line fishermen, it is said, and with the pike are favorites, although striped bass and yellow perch are considered choice fish and are much more generally taken. Yellow perch, bluegills and crapple are plentiful in the lake, and large mouth black bass are said to be increasing. The writer had occasion to see many young bass in the western shoal waters of the lake, and as conditions in Clear Lake are quite favorable to black bass, a gradual increase should occur. The lake is said to be free of gar and has but very few dogfish.

Mussels

While having no particular bearing to the game fish supply of the lake, it will perhaps be well to record that the only commercial mussel observed was the L. luteols, grass mucket, about 50 examples of which were raked from where they were lodged in the side of a sand bar on the north bank of the "neck" at the western end of the lake. These were quite thin and therefore of inferior commercial value. The distribution of commercial and other mussels within the lake is quite limited and commercial clamming has never been done on this lake.

Suggestions for improving the game fish production of Clear Lake

The larger carp should be removed by commercial fishing in the manner now being pursued, or by seining, or both, restricting the capture of carp to individuals weighing over 5 pounds.

The capture of builheads and catfish should be pursued in like manner, restricting their capture to individuals weighing over 11/2 pounds or without restriction as to size

In addition to controlling the lake and its fishes to maintain the desired balance, artificial propagation will be of benefit to increase more quickly any species of fish which the conditions of the lake favor.

The bulrushes should be retained about the lake where practicable.

The refuge provided by the western bay and adjoining slough is very valuable to the welfare of fishes and wild life and this area should be retained in a natural state, and if practicable similar areas should be encouraged in other shallow parts of the lake.

It is understood that the slough beyond the bridge is private property; this should be the property of the state and retained as a part of the lake for the benefit of the fishes in the lake and for the good of wild life in general.

Fairport, Iowa, Oct. 21, 1921.

FINANCIAL STATEMENT FISH AND GAME PROTECTION FUND

FOR THE YEAR ENDING JUNE 20, 1921	
Balance, July 1, 1920	\$ 44,689.96
Receipts: \$105.512.00 Resident hunting licenses. 2.590.00 Non-resident hunting licenses. 2.590.00 Game breeder's licenses. 222.00 Scientifie collection permits. 222.00 Sale of rough fish from lakes under contract. 4.02.80 Sale of produce from game farm. 46.92 Sale of conflacated nets. 56.04 Miscellancous sales and refunds. 54.04	
Total receipts for year ending June 30, 1921	\$114,293,76
Total funds available during the year	\$158,983.72
Disbursements \$ 8,500.00 Salaries, officials \$ 8,500.00 Salaries, officials \$ 35,542.23 Salaries, deputy fish and game wardens \$ 35,542.23 Salaries, deputy fish and game wardens \$ 35,542.23 Traveling expenses \$ 15,553.80 Pish hatchery expenses \$ 13,200.21 Pish distribution \$ 6,743.11 Game farm \$ 7,443.11 Confect of the part of the	
Total disbursements for year ending June 30,	\$105,908.74
Balance, June 20, 1921	\$ 53,074.98
FOR THE YEAR ENDING JUNE 30, 1922	
Receipts:	\$ 53,074.98
Resident hunting licenses \$11,724.00	
Total receipts for year ending June 20, 1922	\$119,321.44
Total funds available during the year	\$172,396.42

Disbursements: Salaries, officials Salaries, deputy fish and game wardens Salaries, deputy fish and game salaries Fish distribution Salaries, deputy fish and game salaries Salaries, deputy fish and game salaries Salaries, deputy fish and game salaries Property bought Cars of game birs wild rice plantings Fish and game salaries Fish and game salaries Salaries, deputy fish and game wardens Salaries, de	
Total disbursements for year ending June 20,	\$140,205.99
Balance, June 30, 1922	\$ 22,190.43
FINANCIAL STATEMENT BOUNDARY WATER LICENS	E FUND
FOR THE YEAR ENDING JUNE 30, 1921	
Balance, July 1, 1920	\$ 7,810.80
Receipts: Boundary water net and seine licenses	
Total receipts for year ending June 30, 1921	\$10,728.41
Total funds available during year	\$18,539.21
Disbursements: Labor, fish rescue work	\$ 2,167.50
Balance, June 20, 1921	\$16,371.71
FOR THE YEAR ENDING JUNE 30, 1922	
Balance, July 1, 1921	\$16,371.71
Receipts: Boundary water net and seine licenses	0
Total receipts for year ending June 30, 1922	\$16,978.50
Total funds available during year	\$33,350.21
Disbursements: \$4,509.2 Labor, fish rescue work. \$8.00.2 License record book. 18.0	2 0
Total disbursements for year ending June 30, 1922	\$ 4,527.23
Balance, June 30, 1932	\$28,822.98
COLLECTIONS CREDITED TO THE STATE GENE REVENUE FUND	
The law provides that fees collected by deputy game warden in which convictions have been secured, and fees received france of licenses permitting the taking of mussel shells shall be the General Revenue Fund of the State of Iowa.	om the issu-
FOR THE YEAR ENDING JUNE 30, 1921	
Fees collected by deputy game wardens in cases prosecuted. Receipts from mussel licenses issued	861.00
Total amount credited to the State General Revenue Fund. FOR THE YEAR ENDING JUNE 30, 1922	
Pees collected by deputy game wardens in cases prosecuted.	Control and the Control of the Contr
Total amount credited to the State General Revenue Fund	\$1,282.15

HUNTING LICENSES ISSUED DURING THE YEARS ENDING JUNE 30, 1921, and JUNE 30, 1922

Resident License Fee-\$1.00; Non-Resident License Fee-\$10.00

doir	Resident 240,00 175,00 452,90 2,107,00 426,70 1,227,00 1,227,00 1,277,00 1,277,00 1,277,00 1,277,00 1,277,00 1,277,00 1,277,00 1,277,00 2,100,00 458,00 922,00 458,00 922,00 1,247,00 1,780,00	Non-Resident \$ 50,00 200.00 20.00 10.00 70.00 10.00 10.00 10.00 10.00 10.00 10.00	Resident 4 477.06 221.00 467.00 468.00 1,201.00 468.00 1,201.00 1,201.00 1,401.00 1,401.00 1,401.00 1,401.00 1,401.00 1,401.00 1,401.00 1,401.00 1,401.00 1,001.00 1,	Non-Remidents 8 50.00 330.00 10.00 20.00 30.00 30.00 10.00 10.00 10.00 10.00 10.00 10.00
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lack Hawk Oote Frener Frener Frener January January	2,107.90 426.00 1,227.00 3,702.00 1,474.00 1,474.00 1,052.00 936.00 578.00 578.00 578.00 488.00 922.00 422.00 929.00 1,770.00 888.00 1,770.00 888.00 1,770.00 888.00 1,770.00	20.00 10.00 20.00 10.00 20.00 10.00 10.00 10.00 40.00	2, 339, 00 489, 00 1, 263, 00 1, 267, 00 1, 189, 00 1, 189, 00 1, 189, 00 964, 00 701, 00 964, 00 973, 00 23, 383, 00 502, 00 23, 383, 00 502, 00 24, 249, 00 1, 439, 00 1, 634,	330.00 10.00 40.00 20.00 10.00 30.00
lack Hawk Oote Frener Frener Frener January January	426, 00. 1, 227, 00. 3, 702, 00. 3, 702, 00. 1, 474, 00. 1, 404, 00. 1, 659, 00. 656, 00. 874, 00. 488, 00. 902, 20. 00. 422, 200, 00. 1, 7700, 00. 688, 00. 1, 7700, 00. 688, 00. 1, 7700, 00. 688, 00. 1, 7700, 00. 688, 00. 1, 7700, 00. 688, 00. 1, 347, 00. 1	20.00 10.00 20.00 10.00 70.00 10.00 10.00 10.00 40.00	489.00 1.265.00 1.247.00 1.996.00 1.147.00 1.189.00 964.00 701.00 1.023.00 1.023.00 1.023.00 507.00 2.383.00 975.00 395.00 1.489.00 1.489.00 1.634.00	10.00 40.00 20.00 10.00 20.00
lack Hawk Oote Frener Frener Frener January January	1,227,00 3,702,00 1,474,00 1,001,00 1,059,00 890,00 658,60 874,00 578,00 661,09 2,100,00 422,00 969,00 1,177,00 688,00 969,00 1,177,00 1,177,00 688,00	20.00 10.00 20.00 10.00 70.00 10.00 10.00 90.00 40.00	1, 203, 00 3, 247, 00 1, 999, 00 1, 147, 00 1, 189, 00 964, 00 701, 00 1, 023, 00 697, 00 2, 383, 00 975, 00 395, 00 842, 00 1, 489, 60 1, 634, 60	40,0 20,0 10,0 20,0
GORDE TERRET GORDE	3,702.00 1,474.00 1,474.00 1,001.00 935.00 890.00 890.00 561.00 2,100.00 488.00 902.00 422.00 902.00 1,177.00 1,700.00 1,700.00 1,347.00	20.00 10.00 20.60 10.00 70.00 10.00 10.00 90.00 40.00	3, 247, 00 1, 599, 00 1, 147, 00 1, 180, 00 964, 00 701, 00 1, 004, 00 697, 00 2, 383, 00 975, 00 975, 00 975, 00 1, 489, 00 1, 489, 60 1, 489, 60	40,0 20,0 10,0 20,0
GORDE TERRET GORDE	1,474.00 1,001.00 1,059.00 936.00 890.00 874.00 378.00 661.00 2,100.00 488.00 992.00 422.00 999.00 1,177.00 1,790.00 888.00	20.00 10.00 20.60 10.00 70.00 10.00 10.00 90.00 40.00	1, 699,00 1, 147,00 1, 186,00 889,00 964,00 701,03 1, 033,00 697,06 2, 383,00 975,00 395,00 842,00 1, 489,00 1, 634,00	40,0 20,0 10,0 20,0
resurer clusters control contr	1,059.00 936.00 890.00 874.00 578.00 661.00 2,100.00 488.00 902.00 422.00 422.00 1,770.00 688.00 1,347.00	10.00 20.00 10.00 70.00 10.00 10.00 90.00 40.00	1, 189,00 889,00 964,00 701,00 1,023,00 1,004,00 697,00 2,383,00 502,00 975,00 295,00 842,00 1,489,00 1,489,00	20.00 10.00 20.00 30.00
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	936.00 890.00 658.00 874.00 578.00 661.00 2,100.00 488.00 992.00 422.00 909.00 1,177.00 1,770.00 688.00 1,347.00	20.00 10.00 70.00 10.00 10.00 90.00 40.00	889.00 964.00 701.00 1,023.00 1,004.00 977.00 2,383.00 975.00 975.00 395.00 842.00 1,489.00 1,489.00	10.00 20.00 20.00
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	890.00 658.00 874.00 578.00 661.00 2,100.00 488.00 902.00 909.00 1,177.00 1,700.00 888.00 1,347.00	20.00 10.00 70.00 10.00 10.00 90.00 40.00	964.00 701.00 1,023.00 1,004.00 697.06 2,383.00 502.00 975.00 295.00 842.00 1,489.00 1,634.00	20.0 30.0
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	658.00 874.00 578.00 661.00 2,100.00 488.00 992.00 422.00 909.00 1,177.00 688.00 1,347.00	79.00 10.00 10.00 90.00 40.00	701.00 1.023.00 1.004.00 697.00 2,383.00 502.00 975.00 295.00 1,489.00 1,634.00	20.0 30.0
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	874.00 578.00 661.00 2,100.00 488.00 902.00 422.00 909.00 1,177.00 688.00 1,347.00	70.00 10.00 10.00 90.00 40.00	1,023,00 1,004,00 697,00 2,383,00 502,00 975,00 395,00 842,00 1,489,00 1,634,00	10.0
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	661,00 2,100,00 488,00 902,00 422,00 422,00 1,177,00 1,700,00 688,00 1,347,00	70.00 10.00 10.00 90.00 40.00	1,004.00 697.00 2,383.00 502.00 975.00 295.00 842.00 1,459.00 1,634.00	10.0
COME (COME) STATE COME STATE STATE COME STATE COME STATE COME STATE COME STATE COME S	2,100.00 488.09 992.00 422.00 969.00 1,177.00 1,760.00 688.00 1,347.00	10.00 10.00 90.00 40.00	2,383.00 502.00 975.00 295.00 842.00 1,489.00 1,634.00	30.0
Aprelians Abrikanse larks lay laytus laytus lation -swindel	488.09 992.00 422.00 969.00 1,177.00 1,760.00 688.00 1,347.00	10.00 10.00 90.00 40.00	502.00 975.00 395.00 842.00 1,489.00 1,634.00	10.0
Sinton Payefued	902.00 422.00 909.00 1,177.00 1,700.00 688.00 1,347.00	10.00 90.00 40.00	975.00 295.00 842.00 1,489.00 1,634.00	10.0
Sinton Payefued	422.00 909.00 1,177.00 1,760.00 688.00 1,347.00	10.00 90.00 40.00	295.00 842.00 1,489.00 1,634.00	10.0
Sinton Payefued	1,177.00 1,760.00 688.00 1,347.00	90.00 40.00	842,00 1,489.00 1,634.00	
Sinton Payefued	1,700.00 888.00 1,347.00	40.00	1,634.00	
Pawtord	1,347,00		1,634.00	
Zuline	1,347.00	700.00		40.0
			680.00 1,318.00	
		100,00	431.00	89.0
Decatur	316.00		603.60	
Delaware	776.00		992.00	20.0
	1,759.00	40.00	1,627.00	60.0
HERITAGE	865.00	**************************************	.993.00	
Temped	2,201.00	10.00	2,843.00	70.0
Bekinsus Pelvique Samet Spetis Spetis Spetis Spetis	1,431.00	20.00	919.00	10.0
loyd	1,268.00		1,161.00	
ranklin	629.00	10.00	596.00	10.0
	461.00	70.00	951.00	120.0
rundy	686.00		724.00	
Guinte Amilian Amilian Amilian Amilian Amilian Amilian Amilian	480.00 840.00		531,00 849,00	
amilton	894.00		939.00	
atseoek	685.00		650.00	
Ardin.	1.152.00		1,260.00	
anty.	797.00		824.00	
(PWant)	406.00 809.00		376.00	
	Martin Parks	-	833.00	
WA.	353.00		333.00	******
acknon.	733.00	50.00	920,00 926,00	80.6
articos asper diferens.	1,552,00	20.00	1,599.00	10.0
Terent	492.00	20.00	465,00	20,0
	1,431,00	* CONTRACTOR	1,535.06	
ecksk	712.00	10.00	911.00	10.0
	757.00 895.00	*********	975.00	
M	1:384.00	10.00	1,718.00	20.1
CONTRACTOR OF THE PROPERTY OF	4, 272, 00	20.00	4, 373.00	20.0
The second secon	378.00		416.00	10.0
	545.00	60.00	897.00	.60.0
adison	342.00		407,00	17777444
alyark a	1,276.00	********	1,196.00	20.6
Arion	1,179.00	10.00	1,170.00	70.1
Inrehall	1,905.00	T-1-1-1-1-1	2,006.00	10.1
itchell	638.00	CARRIADION	859.00	100.4
obona	821.00	40.00	864.00	40:4 70.4
title. (titchell. onona. onrue. ontreumery. saestise. Pieres.	1,461.00	180,00	1,591.00	70.0
ontgomery	501.00	20,00	968.00	10.1
Titrien	1,759.00		1,714.00	

Count.	Year 1	900-21	Year 19	121-22
	Resident	Non- Resident	Resident	Non- Resident
brends . Page	\$ 300.00 or 07.59 or	10.80 270.00 489.00 110.00 20.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 20.00 10.00 20.00 10.00 20.	\$ 367.00 1,015.60 791.00 574.00 7,256.00 1,256.00 1,256.00 1,256.00 1,270.0	\$ 30.00 18

NON-RESIDENT FISHING LICENSES ISSUED FOR THE YEARS END-ING DECEMBER 31, 1920, AND DECEMBER 31, 1921

LIVERSE FEE-52.00.

To Condo TO CON	2.00 2.00 108.00 2.00 82.00 82.00 6.00 2.00 6.00 22.00 6.00 82.00 8.00	\$ 4 8 8 2 900 4 4 54 54 2 6.
Ek Hawk more come come come come come come come com	2.00 2.00 108.00 2.00 82.00 82.00 6.00 2.00 6.00 22.00 6.00	1 2 90 4 4 54 54 2 7 6. 842 10.
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ma Vista forma	2.00 82.00 82.00 6.00 2.00 6.00 22.00 6.00 22.00 752.00 8.00	90 4 4 54 2 6 8 842 10
toman an Godde or Godde order ord	2.00 82.00 2.00 6.00 2.00 6.00 22.00 752.00 8.00	4 54 2 6. 2 842 10.
Section of Control of	2.00 82.00 2.00 6.00 2.00 6.00 22.00 752.00 8.00	4 54 2 6 8 842 10
Internation	82.00 2.00 6.00 2.00 6.00 22.00 752.00 8.00	4 54 2 6 8 842 10
res Garde reference	82.00 2.00 6.00 2.00 6.00 22.00 752.00 8.00	54 2 4. 842, 10.
rocked. (rksaaw rksaaw rks	2.00 6.00 2.00 6.00 22.00 752.00 8.00	2. 6. 2. 842. 10.
Change Ch	2.00 6.00 2.00 6.00 22.00 752.00 8.00	2 8 842 10.
From From From From From From From From	2.00 6.00 22.00 752.00 8.00	2 8 842, 10.
verlands verses Verlands Verlands most verle verle mont verle mont mo	6.00 22.00 752.00 8.00	2 8 842, 10.
Warmer Street St	22.00 752.00 8.00	2 8 842, 10.
Moines triums met vivite munt mone mone man mone man mone man mone man man man man man man man m	22.00 752.00 8.00	842, 10.
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met vivite	8.00	10.
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munt orock orock oracle		- 5
norek Parin Jaman Buth	9.00	
	3.00	6.
mb	142.00	155
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The state of the s	******	- 7
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Management (1977)	8.00	2
B	8.00	8.
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BODA	30.00	26.
STOR	2.00	
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Control of the contro	127.22	2.
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	30.00	70.
	2.00	500
	2.100	2.1
	VANLES	2
		4.0
diury	16:00	
Total SI.3	16.00	0.4

GAME BREEDERS' LICENSES ISSUED FOR THE YEAR ENDING JUNE 30, 1921

No.	Name	Address	Yes
70	Title Rail	Semingham	. :
79	Ellis Rail Albert J. Graves. W. W. Hollister.	Orbeyedan Clear Lake	
51	W. W. Hollister	Clear Lake	
22		Stirin Lake	
83	E. F. Wilcos Harlis Merritt F. C. Gallaber John L. Cole J. A. Whitman Harry F. Wheston	Storm Labe	3
14	Harlis Merritt	Seymont	
55	F. C. Gallaher	Alta	3
55	John L. Cole	Nersds	1
87	I.A. Whitmar	Curlew	1
88	Harry F. Wheston	Des Moines	3
50		Green Island	1
90		Service Instance Dones Groot Indané Davenquet	1
110	Merile Lingle Haymond Rohlfs. Frod Schmell E. L. Breitenbach G. C. Sanborn	Green Island	1
92:	Haymond Robits	Davenport	
63	Fred Schmell	Ruthven	1
94	E. L. Brettenbach	Meuta	
95:	G, C, Saabora	Moville	1
96:	R. L. Evans F. A. Rummel	North English	
100	F. A. Hummel	Dows.	1
18		Photo and the state of the stat	1
10	W. A. Slawiny	Shore Piers	-
00	W. A. Hawley Traheim Patrick E. E. Morgan	Perry Dark Sions City Sions City	
H.	the fit storgan	Iowa Falls	
10	R. C. Jewell Chae, E. Dunavan, Jr	Sious City	
H:	Const. E. Lemayan, or	Pomerone	
12	L. H. Ladd. Glen Degaar	Pomerny Bellevus	
43	House Contabases	Dalla	
11	Harry Swinburne	Rackinham	-
45	Ivan Robinson	Desirus Desirus Rockishan Waterloo Politicas Politicas Politicas	
40.	John Klein Walter Peterson	Poment	
17	W D Austin	Dickers	
49	F. F. Austin Elsie Graham	Printeton	
50	Fred Borton, Jr.	Council Bl. #.	1
51	E E Harrest	Jolley Bancroft Le Claire Ruthven Davenpers Oulewin Grand Junction	
52	E. E. Harvey E. K. Hulterstrum	Bancroft	
53	Frank Morrand Joe Nolan Henry Kruhn Andrew Johnson Geo, C. Fikes	Le Claire	- 9
54	Tax Molan	Pethoen	1
55	Henrie Kroho	Disconnet	1
56.	Andrew Johnson	Oelwein	
57	Geo. C. Fileur	Grand Junction	
58	A. R. Rixby		
59	Geo. Fitagerald	Ruthven	
60	Henry H. Hoerr	Fortiervise Pt. Martinen Root ingham Christie Districte	
61	Chas, J. Jens	Rockingham	
62	John Kierscht	Logan	
63	Henry A. Koch	Eldridge	
64	Goo, C. Pikes A. R. Bitzby Goo, Fitagerahl Henry H. Honer Chan, J. Jenn John Kierscht Henry A. Kooh P. F. McCurthy Beef Fry	Davenport	
65	Bert Fry	Plainfield	
56	Bert Fry E. H. Luedtke Frank Kobbert	Lone Rock	
87	Frank Kobbert	Pacific Junction	3
68.	J. S. Craig Clara E. Keller	Plainfield Love Rock Pacific Junction Mt. Pleasant Calt	
60	Cura E. Keller	-Gall-	1
70	L. W. Glate	Ames Packwood	
71	T. W. Glass Packwood Poultry & Game Farm	Parkwood	
72	E. H. Christy. Gerald Eldridge F. L. Reinhard & Son.	Clinton Ruthven	
78	Geraid Eldridge	Kuthven	
74	F. L. Reinhard & Son	Minnes, constant of the second	
75 76	Gerald Duncan Clarence Runft	Committee Profession	
77	Courence Runft	Mentales and the state of the s	
78	Harry Wilson	Charles and the state of the st	
79	Harry Wilson C. E. Bell	Numeron Obtaines Paretion Beinlowk Okoloji	
80		Edridge	
SE.		Management	
N2		Annales	
53	Fairchild Bros. Osmr Schaefer Carl K. Bixler.	EMPringer EMPringer Monree Aurelia Duvreport Corsing	
54	Cod V Biolin	Coming	
85	A.O. W. Diller	Consume	
86	As O. Welzien. Perry Hornell.		
702 167	9 X 9-44	Ocheyedan. Parkendorg	
NS.	R. A. Reid	Ch Bank	
30	James Neil L. T. Clark Dr. W. W. Pearson.	Gladbrook Arnolds Park	
		Des Moines	

FOR THE YEAR ENDING JUNE 30, 1921-Continued

Ga.	Name	Address	Fre
91	James H. Bailey	Cincinnati	
92	J. W. Borts		2.
NI.	Alfred Rohr		2.
14	L. E. Barnes		2.
15	L A. Wood		2 2
M	T. P. Roberta		2
17:	Warren Handschin		2
ia	Roy H. King		2
30	E. E. Weller		2
10	O. D. Collis	Clinton	2
02	E. C. Hinshaw	Spirit Lake	. 2
13	Karl S. Taylor	Independence	2
14	Henry Schmidt	Davenport	2
06	Joe Ritrel	Ruthven.	2
00	Russell H. Jones		2
07	Boyagain Farms		2
08	Goodrich Anderson		2
10	Mrs. O. E. Faruham		2
ii	F. R. Gottfried		2
12	R. A. Watron	Davenport	2
13	I. W. Stewart	Fonds	2
14	Mrs. J. A. Spurrell		2
15	N. C. Hargis	Cincinnati	2
16	T. W. Huisman	Parkersburg	2 2
17	F. A. Whitted	Mouroe Council Bluffs	- 2
18 19	Brandt Crocker		2
20	L. V. Miller. Howard Stavens.		1 2
21	Helmert Getting		2
22	C. P. Becket		2
23	J. J. Coagrova		2
24	C. B. Bailey	Dickens.	2
25	Jas. H. Miller	Clear Lake	2
26	Albert H. Huher	Clear Lake	2
27	R. W. Elwood	Centerville	2
28	L Hass	Bettendorf	2
29 30	P. V. Keith.	Delhi Sar City	2 2

FOR THE YEAR ENDING JUNE 30, 1922

	1 40 Mar W. (1971)	The same of the sa
6231	C. W Brotherton	Remsen
6282	P. J. Friedmann	Gilbertville
6233	F. J. Smith	Ruthven 2.60
6234	H. R. Theds	Eldridge 2.00
6255	Roseos Greenwood	Emerson
6336	P. P. McCarthy	Davenport 2.00
6227	Louis Morey	Le Claire
6238	E. A. Ringheim	Radeliffe 2.00
6239	Glenn O. Gilham	
6240	Floor Distriction	
9540	Lloyd Pitta	
5241	Chas. Hudson	
5252	Warren H. Sackutt	Independence 2.00
6213	W. F. Hant	Des Moines 2.00
10244	J. B. Padgham	Ocheyedan 2.00
6245	R. B. Ferguson	Rippey 2.00
6246	A. V. Lawver	Rippey 2.00
6247	R. W. Winkler	Auburn
6348	Fred Gehrig	Dyersville 2.00
6249	Jesse Lindebak	Las Verne
6250	Yerne Tenney	Onage 2.00
6251	Frank Shoemaker	Sioux City 2.00
6002	C. J. Haver	Duvesport 2.00
6250	Fred Einspahr	
0254	Larry Pelase	
6255	A. M. Buhr	
6226	Name of Change	
6257	Norman Ouanne	
800V	W. W. Harvey	
9009	C. R. Burrell	Creston 2.00
9409	N. E. Dahl	Alta
6260	H. E. Thayer	Storm Lake 2.00

100			
	Geo. F. Wood	Cedar Palle	
11 02	C E Hurton	Reitt	E :
13	J. Corson	Britt. Waferioo. Mason City	1
H	C. E. Harton J. Corson M. S. Barron	Mason City	1
15		Hayfield	
18	L. G. Steyer D. S. Seaman M. C. Stark C. C. Bennett	Waterion Mason City Hayfield Hayfield Livenov Livenov Soun City Mason City Britt Britt	-
7	D. S. Seaman	Clinton	2
8	M. C. Stark C. C. Bennett	Livermore.	
9	A P Reskul	Mason City	2
0	C. W. Miller H. H. Harvey John Breibols Haken Christman	Relati	2
	H. H. Harvey	Oskalooss	2
5	John Breibols	Pomeroy	2
4	Hakon Christensen C. N. Krogh F. W. Rex Joe J. Holub	Eagle Grove	- 9
5	C. N. Krogh	Sargeant Bluffs	2
0	F. W. Rex	Odebolt	2
7	Joe J. Holub	Mason City	2
8	Joe J. Hould Sam Daniels. O. C. Stevens. Harry Wheaton. C. E. Johnson. W. E. Brown. J. R. Payton.	Des Moines	. 2
9	U. C. Stevens	Des Moines	52
	C F Tohenon	Sions City	2
	W E Brown	Mason City	2
	J. R. Payton	Mason City Britt Oskaloosa Prunercy Eagle (Gevee Sarpeant Blads Des Moiose Bose City Mason City Des Moines Britt Britt Britt Britt	2 2
ш	Geo. E. Rezabek	Britt	2
5	J. R. Payton. Geo. E. Rezabek H. W. Hawlett	Des Monnes Britt Britt Algens Climans Climans Climans Climans Climans Climans Climans Climans Climans	- 2
5	M. Hawlett Will Walker A. G. Lattimer Geo. Reeley Ernie Bauermeister Geo. H. Raun	Algona	2
181	A. G. Lattimer	Algona	2
33	Geo. Reeley	Clear Lake	- 2
	Can H Property	Clinton	9
2		Williams Storn Lake. Mason City Rock Palls Dritt	2
	Chas. Inks	Steen Lake	2
	David Dioreka	Manon City	2
3	Ray Edgar	Rock Falls	2.7
	Chas. E. Wood David Diereks Ray Edgar Andrew Goodrich	Osceola	2
	Milton Madison Geo. Faktor Alex Meurs Harile Merritt Ray Meyer	Oscotta Mason City Mason City Seymour Mason City Seymour Schleent	2
	Geo, Faktor	Mason City	2
3	Alex Meurs	Mason City	2
)	Harlie Merritt	Seymour	- 2
0	Ray Meyer L 8. Robinson E. J. Stoltenberg Paul Bucklen Will Dabl	Mason City	2
91	L. S. Hobinson	Davenport	2
	Dayl Bankley	World Day	2
ы	Will Dahl	Storm Take	2
5	S. C. Price	Council Bluffs	2
	S. C. Price A. C. Olmstead H. J. Kauth	Grand Junetion	2
101	H. J. Kauth	Washburn	- 1
861	Geo. C. Rae Handy & Ainsworth S. H. Paulson E. W. Kellogg	Waterloo	
201	Geo, C. Rae	Storm Lake	- 2
	Bandy & Ainsworth	Postville	2
91	S. H. Paulson	Brist.	- 9
	E T Hallogg	Posts	- 1
81	R. W. Kellogg F. J. Halberg W. B. Wilson Albert Walters G. L. Le Plant	The Moines	20
	Albert Walters	Odebolt	
	G. L. La Plant	Marble Rock Storm Lake Council Bluffs Crawd Junction Waterloo Waterloo Waterloo Born Lake Postville Britt Stoux City Fouch Colebot Odebot Odebot Dawenport	1
18	N. L. Mason Frank Holliday H. J. Mackennie Frank Would	Des Moines	- 3
50	Frank Holliday	Davenport	2
	H. J. Mackensie	Davenport	2
20	Prauk Foulk Geo. F. Dickey R. L. Evans C. A. Elfrink	Des Moines	2
	Geo. F. Dickey	Des Moines North English Cherokee	2
8	C A Photob	Charles Charles	2
	J H Pell	Lactula	2
	L. O. Bidwell	Calumet	2
181	Merl Stine	Monroe	- 2
8	L. O. Bidwell L. O. Bidwell Meri Stine Albert J. Graves D. G. Graves	Cheroine Lavinia Calquiet Mooroe Ochoywdan Rock Falls	- 1
	D. G. Greenler	Rock Falls	- 2
9	H. W. Schlenker	Grimes	2
	Ernet McWilliams	Des Moines	. 2
	L. H. Hooker	Des Molnes	2
8	C W W	Water and the second	2
3	Large Character Contract	Class City	2
9	Abs Comer	Cincinnati	2
а	Albert J. Graves D. G. Greenler H. W. Schlenker Ernest McWilliams L. H. Hooker L. Roy Trout G. W. Warner Lestand Glosson Abs Comer J. A. Bummel	Corines Des Molines Des Molines Baster Waterbox Spart City Chetinast Webster City Webster City Released	- 2
	O. A. Barnett S. F. Baidridge	The state of the s	- 3

FOR THE YEAR ENDING JUNE 30, 1922—Continued

No.	Name	Address	Fee
1339	Oakley Payne	Washington Rock Rapide Princetto Davenport Des Moisses Praire City Macon City Pt. Dodge Stone City Life Ci	8 1
(340)	Oskley Payne Verle Jones. Barney Parrish Chas. Rowland T. C. Chaney	Rock Rapida	2
1041	Barney Parrish	Payenget	2
1342	Chas Rowland T. C. Chasey R. J. French W. E. Wesslell Arthur Abbott W. H. Matzke	Des Moines	3
1344	R J French	Prairie City	
1345	W. E. Wendell	Mason City	3
1345	Arthur Abbott	Ft. Dedge	3
1347	W. H. Matzka	Sioux City	3
1048	Milo Walthall	Chelsen	- 5
1349	Milo Watthall Clyde Wilkenson Wright and Teeples Ralph Phillips W. W. Trusell Bernard Collect	Choless	3
1350	Dalah Phillips	Mason City	3
1157	W. W. Trusell	Grinsell	- 2
5353	Bernard Colhert	Menlo	3
1354	F. E. Hill J. H. McGorrisk B. H. Hendershott	De Maine	3
\$355	J. H. McGorrisk	Des Moines	- 6
0500	B. H. Handershott	Grinnell	3
1357 1358	C.F. Connelly B. C. Jewell	Inwa Falls	3
6350	R. C. Jawell. John Lachner Sons Chas. E. Densvan, Jr.	Spender	3
6565	Chas. E. Donavan, Jr	Sioux City	3
1002	Raus Roek	Duvenport	1
63/62	G. C. Fisher	Davesport.	3
6363	Chan, E. Dronwan, IT Rants Roek G. C. Fiellar Hart Hamblin Wm. Malthy Ed. Elmergreen	Lown Nalla Spender Sinux City Davengort Davengort Codar Regists Eldridge Davengort West fend Davengort West fend Davengort West fend De Moines Washbern Restriven	-
5364	Vin. Mailley	Eldridge	3
6365	Ed. Eliporgreeh. Louis Krouper. John Dorweiler Felix Thode. Harry Vrousax Chan Derben. Jon Manning B. L. Bagley John Solftier, Je. Loy M. Porter. Geo. T. Carbon. Bayden and Calbrell Bayden and Calbrell	Davenport	
6367	John Dorweller	West Bend	1 3
2385	Felix Thods	Des Moines.	1 3
6389	Harry Vroman	Hawkeye	3
6370	Chas. Derkes.	Washburn.	1
1371	Jon Manning	Rathwan Rithwan Rithwan Rithwan Movile Movile Moulton	
1372	E. L. Bugley	Diameters	1 3
1971	John Phittier, Jr.	Moville	1 3
6374	Con T. Carron	Moulton	3
6375	Harden and Callwell	Ruthven	1
5377	Laurence Hansen	Davesport	1 3
652%	Laurence Hansen G. E. Shorien E. F. Ransford Harry Swinturne	Ruthren Danssport Prairie City Eagle Geore	3
6279	E. F. Ransford	Eagle Grove	
6380	Harry Swintzerne	Dellak	1 4
4381		Delhi Davenport Anamoss Anamoss	1 3
6387 6387	Snyder Bros. Tyler and Downing.	Anamosa	1 3
1354	W. W. Hollister	Clear Lake	1 3
1285	W. W. Hollister Mrs. H. C. Mefford	Woodbins	1 3
BAAA'	S. A. Bemu F. A. Bonebright E. E. Harvey	Mason City	3
1397	F. A. Bousbright	Webster City	3
5588	E. E. Harvey	Jolley	1
389	Harry Adams	Bonnette	1 3
1393	Mud Bridge Cup Club	Ananoma Clear Lake Mason City Webster City Joliey Centerville Fomeroy Conterville	1 14
1392	J. B. Johnson	Galt	
1292	Harry Adams Dr. Chus, Taylor Mud Bridge Gun Club, J. B. Johnson Lexning Howell Frank Kobbert Earl Bess	Centerville Cold: Petreum Profesion Lawler Look Rock Proportion Allian Salem Salem Davemport	1 3
1394	Frank Kobbert	Pacific Junction	1
395	Earl Benz E. H. Lumitke Harvey Kronger Adelbert Daland	Lawley	1 0
1396	E. H. Lunitke	Lone Rock	
307	Harvey Kroeger	Property	1
395	W. I. Marone	Albin	1 2
400	Class Toront	Rolem	1 6
400 401	Chas I Jens	Davenport	1
402	Henry H. Hoerr	Davenport Pt. Madiana Logan Estherville	1 3
103	John Kierscht.	Loger	
404	A. R. Bixhy	Estherville	1 5
405	Harvey Krouger Adelbert Dohand V. L. Mercer Gen. Tymer Chas. J. Jenn Hassey H. Haser John Kirracht A. R. Baby Edgar Statler Clint Garachte	Nevada	3
406	Clint Giscoutte W. T. Campbell G. Watson Franch John Stewart	Normalis See City Kingsley Dawngord Maynard	100 6
407	G. Watson French	Daymoort	5
400	John Stewart	Maynard	
410			
MIL	Chris Schnockloth	Bennett	1 3
412	Chris Schnockloth Hotchinson Wyandotte Yards.	Arlington	1 3
433	F. W. Coaton.	Dabaque	1 3
414		Bennett Arlington Duboppe Sac City	1 3
415	C. E. O'Connon Mila Shifflett Philip Dupis Put Akery	Moville Sigourney.	1
1416 1417	Mulo Bhifflett	Signumey Brooklyn	3

Name	Address	-
Louis Hurska.	Ordar Rapide	
Day Government		
Geo. Spoerty	Marengo	
Geo. Spoerry Fred Barton, Jr.	Council Bluffs	
Jasob W. Zorgier	Marsano Counci Bluffs Varins Waverly	
Robert Sager	Waverly	
G. C. Myers. Geo. Folcka	Auburn	
Geo. Folcka	Auturn Cromwell	
Roy H. Burling		
Clura E. Keller	Gall.	
Clara E. Keller Robert Royce H. W. Schrader	Oult. Security	
H. W. Schrader		
Fay Linn	Spirit Lake.	
Fred Yoeum	Logan	
M. L. Durrah F. L. Leslie W. D. Holrtman, Jr	Myutic MyClelland	
T. D. Helstman le	McClelland Adel	
H. Tiesu	B. d.	
H. Tirsu N. P. Kramer	Rendlyn Hayfield	
F. R. Lackore	Harfield	
Author Chandles	Waterle	
Was Cabust	Waverly	
Wm. Scherf Perry Hormel	Cont Lake	
Perry Hormel	Ososola. Dubaque.	
M. A. Munsinger	Mason City	
Willard Chapman	Mason City.	
Arlington Pheasantry	Waverly Arlington	
C. C. Runyard	Waverly	
L. A. Woods W. J. Borts & Son	Chariton Fonds Creston	
W. J. Boets & Son	Creston	
	CHEMORITORIUS CONTRACTORIUS CO	
Jaz. H. Bailey W. E. Dunn Neil Finn	Cincinnati	
W. E. Dunn	Clarion Clarion Walcott Davenord	
Neil Finn.	Charine	
Claus Honor	Walcott	
Geo. W. Sita	Daveneget	
Claus Heuer Geo. W. Sita Harry F. Myers	Davenport Dike	
	Wangoms	
J. M. Smittle C. P. Rutledge Ed. Sohle R. L. Chapman	Des Moines	
Ed. Soble		
R. L. Chapman	Waverly Dertor	
	Dertry Walcott	
C. F. Miller	Live Mothes	
C. F Miller Mrs. J. L. Sadler Handy & Ainsworth	Lioudia	
Handy & Ainsworth	Postville	
Guy Hitchings	Independence	
A. L. Gostiell. N. C. Hargis	Codar Rapids Coteinnati Waterloo	
N. C. Hargis	Cincinnati	
Burr C. Towne Mrs. C. C. Storek	Waterloo.	
Mrs. C. C. Storek	She Seld	
Wm. Potter	Ottumwa	
Wm. Potter Wm. Kelly	n sarion Sas-Seld Primma Othines Othines Othines	
Company Compan	Ottumwa	
Oco Ottoca	Ottumwa	
Helmet Gettine J. M. Campbell	Parkorsburg Aunes Des Moines	
J. St. Campbell	Address of the same of the sam	
I. V. Miller	Des Moines	
Howard Stevens L. A. Cobb.	March Company Comments of the	
Chas Frank	Waterloo.	
Chas. Eneck	Star City Waterlio Waterlio Waterlio Clarkeville	
Knipp Bros. L. W. Parno. Mollie Kennelly	Physically	
Mollie Kannelly	Clarkerille Stuart Cedar Palle	
A Sornsen	Codes P.R.	
A Sornseu. J.J. Congrove.	There is a second secon	
Jim Pett.	Titonka	
Max Amelia Smith	Water	
Rarry Vostor	Waterloo. Waterloo. Waterloo	
Harry Foster Frank Ferry Beandt Crooker	Waterloo La Porte City Council Blaffs. Creaton	
Brandt Crocker	Council Blade	
T. P. Roberto	Desertion	
T. P. Roberta P. E. Keith C B. Balley	Parks	
C B. Bailey		
C B Bailey Joe Averell	Dickens Waterioo	
Jean Sibool	Janearile	
James Niel	Gladbrook	
T. Warm	Gladbrock Bettendorf	
J Hass. otal for the year ending June 30,		

CERTIFICATES ISSUED FOR THE COLLECTION OF BIRDS, EGGS AND NESTS FOR SCIENTIFIC PURPOSES

FOR THE YEAR ENDING JUNE 30, 1921

61	Name	Address	Fer.
e	W. I. Hnittle	Council Bluffs	1 1.
91	Kathleen M Hempel	Elkader	:40
個	Walter J. Himmel	Dadeliffa	1.
М	Eva Lewers	Lamont	3.
	H Willard Son & Co.	Marshalltown	(3)
Ш	Mes. J. H. Stechdon.	Dakaloosa	1.
а	Harry Swindsurne	Delbi,	- I
я	Conract Milles	Dabaque	Cancel
а	L. W. Dean	Iowa City	1.
я	Le Roy Titus Weeks	Emmetablist	1
6	Wen. F Coultas	Iows City	1
3	Kathleen Hempel	Ellender	1
ч	Wesley Kubichek	Lowa City	1
ā.	Samuel Foft	Wanker	1
ñ.	Walter Henckspridge	Hencel ben	3
ŧ	E. J. Willis	Riggwille	1
ž.	Walter D. Baker	Christian	1
š	H. Willard, Son & Co	Marshalltown	- 1
1	A. J. Anderson	Short City	1 9
ŭ.	John L. Cols	Nevada	- 4
й	F. L. Fitspatrick	I town City	
17	T. C. Stephene	1 Shory City	1
ik.	Mes. J. H. Steddon	Dekalones.	1 1
ű.	Walter J. Himmel.	Radeliffe	1
iō.	J. H. Craig.	Mr. Pienest	1
ü.	Raleh Handsaker	Com	1
ö.	Frof, Joseph Steppan	Des Moines	1
85	R. Walton Clark	Fairport	1 8
84	B. R. Thomas	Mason City	1 1
65	J. R. Burnt		1 1
88.	G. A. Larsen		1 3
RT.	Em Leven		1
88.	Chos. H. Anway		
65	Edwin C Anderson	Dell Rapide, South Dakota	1

FOR THE YEAR ENDING JUNE 30, 1922

170	Paul Paul	Corning	1.00
171	R. J. Renihan	Des Motnes	1.00
172	Paul Page	Corning.	1.00
174	Kathleen Hempsl	Elkader	1.00
175	Le Roy Titus Weeks	Emmetaborg	1.00
176	Dr. I. W. Dean	Iowa City	1.00
177	H. Willard Son & Co	Marshalltown	1.00
128	Chaz Greenwood	Emerson	1.00
179	Samuel Foft	Wanker	1.00
130	G. A. Larson	Jewell	1.00
181	Wesley Kubirhek	Iowa City	1.00
192	A. J. Anderson	Iowa City	1.00
182	W. F. Coultsa	Nevada.	1.00
185	John L. Cole Ralph Hambaker	Colt	1.00
194	Mrs. J. H. Steddon	Oskalossa.	1.00
187	Harry Swinetsurne	Delhi, . Y	1.00
144	Walter Brechenridge	Brookiya	1.00
199	W. J. Himmel	Iowa City	1.00
190	Martin C. Paulson	Nevada	1.00
191	J. R. Burna	Des Moines	1.00
102	W. D. Baker.	Clarinda	1.00
193	F. L. Pitspatrick	Iowa City	1.00
294	R. J. Remban	Davesport	1.00
106	E. J. Willis.	Ricerife	1.00
196	David H. Scott	Items City	1.00
197	Withur B. Knowles		
199	Harold Moon	lows City	
200	Ed. C. Anderson	Dell Rapids, South Dakota	1:00
200	T. C. Stephens		1.00
5.1	Wendell Krall		1:00
			32.00

NET AND SEINE LICENSES ISSUED FOR BOUNDARY WATERS MARCH 1, 1920, TO MARCH 1, 1921

Kind	Number	Fee	Collected
Seinet Transmit set. Transmit	262 8 527 2,498 688 13	8 10.10 5.10 4.10 1.10 .90 .60 .60	8 989 80 1,236.20 32.80 579.70 1,495.80 412.80 7.80 174.60
Total number issued Total amount collected			\$ 5,002.50

MARCH 1, 1921, TO MARCH 1, 1922

	Knd	Number	Fre	Collected
Transmel net. Pound net—over 1 Pound net—under floop net. Fylic net. Dip net.	(0) 1; fead (10) 1; fead	3,326 197 26	\$ 10.10 5.10 4.10 1.10 .60 .60 .60	\$ 1,010.00 1,331.10 12.30 583.00 1,965.60 118.20 15.60 67.20
	ismed			8 5,133.00

FISH RESCUE WORK

FOR THE YEAR ENDING JUNE 30, 1921

Fish rescued	from land-locked ponds and bayous of the Missis-	100
sippi River	and returned to the live waters of the river 13,000,000	9
Fish rescued	from land-locked ponds and bayous of the Missis-	
sippl River	r and transported to inland streams and lakes for	
stocking p	urposes 246,00	9.
Fish rescued	from land-locked ponds of inland streams by dep-	
uty game	wardens, which were returned to live waters 143,49	9.

Total number rescued during year ending June 30, 1921..... 15,389,496 FOR THE YEAR EXPLISE JUNE 30, 1922

A NOTE AND A SHARE SHARE SHARE SHARE SHARE SHARE
Pish rescued from land-locked ponds and bayous of the Missis- sippi River and returned to the live waters of the river
slppi River and transported to inland streams and lakes for stocking nurposes 506,000
Fish rescued from land-locked ponds of inland streams by dep- uty game wardens, which were returned to live waters 415,618

Total number rescued during year ending June 30, 1922....17,521,618

FISH DISTRIBUTION

Deliveries of fish, rescued from land-locked ponds, sloughs and bayous of the Mississippi River, made by the fish car from the Lansing and Sabula stations. Consignments consisted of both fingerling and adult bass, pike, crapples, sunfash, pickerel, catfish, etc.

FALL OF 1920

Delivered At	Waters Placed In	Amount
(No.		11,00
Nu Moines. Vaterios	Cedar River	12,00
Vehiter City	Twin Lakes	10,00
ermont	Turkey River	8,00
t. Angar fontierko	Red Cedar River Magutkets River	8,00 15,00
edar Fulls	Cefar River	10,0
fasen City	Lime Creek	10.0
Bia	Waperpinicon River	15,0
larkaville	Shell Rock Piver. Des Mointe River.	10,0
L Atkinson.	Lake Cornelia	10,0
oome,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Des Moines River	10,0
urlington	Crystal Lake	8.0
Intliven		10,00
Total distributed in fall of 1920		246.6

FALL OF 1921

Delivered At	Water Placed In	Amount
Altás	Albia Reservoir	12.000
Mason City	Lime Creck	10,000
Clear Lake	Cleur Lake	15,000
Independence	Wagaipinicon River	15,000
Cedar Falle	Ceriar Hiver	10,000
Des Moines	Dos Moines River	19,000
Nora Springs	Des Moines River Shell Rock River	15,000
Charitan	Reservoir	10,000
Omage	Red Codar River.	10,000
Grinnell	[-City Laken	8,000
Des Moines	Des Moints River	10,000
Okoboji	Lake Okoboji	25,000
Waterloo	Cedar River	10,000
Cresco Rockwell City	Turkey River	8,000
Great Control of the		15,000
oder Rapids	Grand River Cedar River	17,000
Naverly	Shell Rock	R 000
LESSONS.	Wapsipinson River	20,000
Verry	Raccoom Hiver	15,600
Attied Junesia	Wazuininienn River	20,000
Wantedma.	Turkey Siver	20,000
New Hampton	Waqoipinicon River	10,000
hereia coterville	Reservice.	11,000
OWN PADE	City Reservoir Iowa Erver	10,000
SHOW LIMES	Spirit Lake	25,000
ROLL CITY	Brown's Lake	15,000
lorydon.	Reservoir	10,000

ed In Amount	Delivered At
12,00 10,00 15,00 15,00 16,00 10,00 10,00 10,00 10,00 12,00 12,00 12,00	anno siker timore minerios min
	real Conden. Total distributed in fall of 1921

REPORT OF FISH HATCHERIES

DISTRIBUTION OF PIKE FRY HATCHED AT SPIRIT LAKE HATCHERY

SPRING OF 1921

Delivered At	Waters Placed In	Amount
		1,500,00
sirit Lake	Spirit Lake	1,500,00
ast Okoboji Lake	East Okoboji Lake	750.00
est Okoboji Laks	West Okoboji Lake	700,00
harles City	Cedar River	400.00
MET	Red Cedar River	300,00
Ansgar	Red Cedar River	400.00
ashus	Cedar River	200,0
dia	Wapsipinicon River	400.0
lermont	Turkey River	
ockwell City	Twin Lakes	500,0
Dodge	Des Moines River	400,0
abster City	Bonne River	300,0
larlesville	Shell Rock River	200,0
edar Falls	Cedar River	300,0
mton		300,0
edar Rapids		400,0
		400,0
umboldt		400,0
oem Lake		400,0
awarden		400,0
dix		200,0
DAWN		200,6
(all Lake		1,600,0
lear Lake		200.0
authoren		500.0
Lawon City		400.0
les Moines.		400:0
hariton		400.1
urry		300,0
answha	Twin Lakes	
edar Rapids (For Wagole River)		
adependence		
Htomws	Des Moines River	
Rtumwa		
Selle Plaine	. Iows River	20000
Emmetaburg	Madinon Lake	100000
Senter Lake	Center Lake	200,
	rit Lake Hatchery, 1921	The same

SPRING OF 1922

Delivered At	Waters Placed In	Amount
Spirit Lake Last Oktobe i Jake Last Oktobe i Jake Were Oktobej Jake Lake Park FF I Dudg Rosit Alier Rosit Alier Rothwen Center Lake Adel Das Meitres Total tike few distributed from Rein	East Onebui Lake West Onbois Lake Silver Lake Des Molone River Foren Lake City Lake Los Island Lake Conter Lake	2,000,000 3,000,000 9,000,000 300,000 300,000 300,000 300,000 300,000 300,000

DISTRIBUTION OF PIKE FRY FROM CLEAR LAKE HATCHERY

SPRING OF 1922

Delivered At	Waters Placed In	Amount
Charles City Nors Springs Nors Springs Kanacha Crystal Lake Ones Si Annacs Si Annacs Si Annacs Contal Lake Constal Charles Subra Charles Charl	Shall Rock Rover Trin Lakes Crystal Jain. Shall Rock River Codar River Crystal River Torkry River Codar River Codar River Codar River Codar River Codar River Lona River	300,00 300,00 120,00 240,00 120,00 120,00 120,00 180,00 240,00 180,00 275,00 275,00 22

DISTRIBUTION OF TROUT FROM LANSING HATCHERY SPRING OF 1921

Delivered To Bainbow Trout Lake Trout 6,000 7,500 6,000 20,000 5,000 2,500 2,500 2,000 2,000

Total troot distributed from Lansing Hatribury during spring of 1921......

42,000

42,000

SPRING OF 1922

Delivered To		Brook Trout	Lake Trout	
Nest Okoboji. Debagot. Odinari. Debagot. Odinari. Berler Creek. Clear Creek. Clear Creek. Descrack. Clear Creek. Descrack. Wasterlos. Wasterlos. Wasterlos. Wasterlos. Wasterlos. Wasterlos. Wasterlos. Berler Creek. Descrack. Descrack. Descrack. Descrack. Wasterlos. Wasterlos. Berler Postriik. Patriik. Berler Postriik. Patriik. Dozine. Descrack. Descrack	73, 900 15, 900 27, 900 20, 900 20, 900 20, 900 20, 900 3, 900 3, 900 2, 500 3, 900 3, 900 5,	5,000 7,500 5,000	40,000	
Total trout distributed from Lans ag Hatchery, 1922	307,650	85,000	40,000	

fish taken and amount received by the state in the removal of rough fish from the prorough fish, the state AB to the propagation of game fish. seining of detrimental granted ROUGH FISH REPORT sed to such an extent as to be permits the Code, 1913, Supplement to the sale thereof had increas which they 2546 of the lakes in perce receiving vided by

異な異数素は異数素を 184 185 to 185 t 10 BERRESSARRES SUSSUS S 8173 E 12 25 F- E-W EDSERBEESES 1922 日日代の祖子日田 ままりょ 1 30. 30 JUNE JUNE ENDING ESDING YEAR YEAR THE FOR

BIENNIAL REPORT OF THE

MUSSELS

Because of the rapid decrease of mussels in the streams of Iowa, the Thirty-eighth General Assembly passed an act placing the regulation of mussel capture under this department by providing for a license for those taking mussels, prescribing the manner in which mussels should be taken, and for the opening and closing of certain streams to the taking of mussels.

Under this authority the following sections of streams in Iowa were closed to the taking of mussels for a period of five years, extending from January 1, 1921, to January 1, 1926:

DES MOINES RIVER-Closed from mouth to Eddyville and from Des Moines to Ft. Dodge.

Iowa River-Closed from mouth to Marengo and from Marshalltown to Iowa Falls.

CEDAR RIVER-Closed from Cedar Rapids to its source.

SHELL ROCK RIVER-Entire river closed.

SMITH CREEK-Entire Smith Creek in Muscatine county closed.

MUSSEL LICENSES ISSUED

					1920	1931
Resident (Fee	WR DES			en de la constante	561	200
Resident (Fee	32.00)		*****		18	1
						1
Dredge (Fee \$	28.00 in add	ntion to	regular te	(B)	*****	

PRODUCTION OF MUSSEL SHELLS-1920 AND 1921

	1920		1921	
	Pounds	Value	Pounds	Value
Mississippi River Codar River Shell Rode River Des Moines River Waşospinion River Skunk River Jown River Little Sloux	446, 105 145, 100 67, 210 31, 430 8, 600	\$ 54,294.71 19,770.19 15,747.95 3,849.55 1,746.23 620.05 208.00	89,500 None 149,005 157,210 6,000 15,660 12,713	103.00 116.00
Total	3,261,282	\$ 96,436.68	1,473,982	821,001.60

The issuance of mussel licenses did not commence until in August, 1919. From August to December 31, 1919, there were 173 mussel licenses issued. During the year ending December 31, 1929, the first year the mussel law was in complete operation, 562 resident licenses, 10 non-resident and 3 dredge licenses were issued. For the year ending December 31, 1921, the license issuance decreased, and only 300 resident licenses, 1 non-resident and I dredge license were issued. This decrease was due to the order which closed large areas of the Des Moines, Iowa, Cedar and Shell Rock Rivers to the taking of mussels for a five-year period commencing January 1, 1921.

The enormous decrease in production during the year ending December 31, 1921, the first year the closed areas were in effect, serves to emphasize the value of theze closed areas. For example, over 446,000 pounds of mussel shells were taken from the Shell Rock River during 1920, while none were removed in 1921. The several thousand pounds, which it is certain would have been removed during 1921 had not the Shell Rock River been closed to claiming, now have an opportunity to propagate, and at the expiration of the five-year period, when the river will be opened to claiming, it will be restocked through self-propagation to such an extent that shells may be taken without danger of extinction.

The total production and value of shells taken, as shown by the production table, is not complete, but merely gives an idea as to the amount taken and the value thereofs. This table was compiled from reports required of each license holder at the end of each year. It is, however, impossible to secure reports from each licensee, due to the wandering nature of commercial clammers in general. During 1920 the license issuance amounted to 576 licenses, while in 1921 it amounted to 302, but for 1920 only 455 reports were received and in 1921 only 230 reports were received. The totals of the production table are made up from the reports actually received since no estimate was made of the production of clammers not

The U. S. Bureau of Fisheries maintains a Fisheries Biological Station at Fairport, Iowa, which has accomplished wonderful results in propagation of mussels, the survey of mussel resources, the investigation of mussel problems and the promotion of mussel protection. During 1920 approximately 183 million glochidia were released from this station.

DISTRIBUTION OF EGGS AND BIRDS FROM THE STATE

EGGS DISTRIBUTED IN SPRING OF 1921

PHEASANT EGGS

Numbe	rof
Sent to-	20
	20
	20
	20
	20
	20
	40
	40
	20
	20
	20
	60
	20
The last the	40
	20
	20
	20
to be the format by the work of the state of	797
and the state of t	20
with making Woodhing	W. O.
	20
ar of the A Adalphi	N. W. T.
ar dedand Moffengar	(C)
marks of Consister Thomas	-
as a Charmon of Thomas	-
W. W. Charles Thomas	
T D William Dr Clark	
Tioner O'Heen Dalla Dining	-
to w the new Manual Alexandra	,
Man D Canala Canalay	
To the difference of analysis	
The Descript Territory	
F. A. Beamis, Mason City	49

DISTRIBUTION OF EGGS AND BIRDS-Continued

Numi	ber of
Sent to-	Egge
Fred Young, Clive	- 20
L. E. Hiefner, Des Moines	- 40
Mrs. M. Whitmore, Sheldon	- 20
Mrs. Mountiac, Valley Junction	- 40
W. L. Barrett, Council Bluffs	- 40
E. C. Litchfield, Waterloo.	20
E. E. Breniman, Brooklyn	20
Tom Viers, Valley Junction	. 46
Ed Cain, Grimes	. 20
Ed Cotshall Des Moines	. 20
Bay Moellerman, Lansing	- 25
Louis J. Alberding, Arcadia	20
Anton Public Elms	26
Geo S Angier Storm Lake	- 20
A. C. Karges, Storm Lake	., 20
Mrs. C. Henry, Earlham	. 20
W. D. Conn, Burchinal	20
James Novotny, Wassoma	20
Norman S. Ried, Lisbon	20
Mrs. H. S. Rash, New Providence. Menzel Heddens, Garner	20
Mrs. Milo Brown, Garner	20
W. H. Moore, Nora Springs	. 20
John H. Waller, Charles City	20
Exida Swift, Mason City	40
H. H. Williams, Galva	20
H. Jacobs, Thompson	20
Mrs. J. E. Adams. Woodblne	20
W. Schillinglaw, Jewell	. 20
Mrs. Walter McClurg, Jefferson	20
Raymond Wiley, Indianola	- 20
Donald E. Kean, Grimes	. 20
V. A. Fail, Reinbeck	
Fred Woody, Newton	20
G. W. Tyner, Salem	
Henry Hoerr, Ft. Madison	20
Euola M. Edgerton, Gibson	20
B. F. Emery, Thayer A	20
Henry Schultz, Oto	20
Fred Johnson, Montexuma	20
Theo Mantz, Des Moines	
Frank Rubik, Elma	20
H. L. Brown, Indianola	40
O. H. Hobbie, Mt. Union	
John Kierscht, Logan	
E. Fitch, Logan	
H. S. Blobler, Humeston	
A. Stell, Bondurant	
Ralph Haas, Center Point	
Mrs. W. J. Adams, Emerson	
Mrs. O. E. Farnham, Spencer	
P. R. Gottfried, Fonda	. 20
J. Casebeer, Waterloo.	20
C. C. Coates, Charles City	20
J. C. Bradbury, Oskaloosa	
R. J. Murphy, Nora Springs.	
J. R. Hamfiton, Nora Springs	20

Number 9	6
Egg.	
Sent to— 2 Alice Beck, Lenox 18	
Alice Beck, Lenox. 18	
E L Breitenbach, Keota E J. Mentzer, Marion	0
E. J. Mentzer, Marion 2 J. Shannon, Marquette 2	0
J. Shannon, Marquette.	0
J. Shannon, Marquette.	.0
G. Pederson, Waterville J. M. Ramsey, Clarksville.	
J. M. Ramsey, Clarksville W. C. Batdorf, Nora Springs.	
W. C. Batdorf, Nora Springs J. W. Collin, Yorkshire.	16
J. W. Collin, Yorkshire. Geo. Ringgenberg, Clear Lake.	0
Geo. Ringgenberg, Clear Lake H. A. Hedge, Oskaloosa	10
H. A. Hedge, Oskaloosa J. E. Fry, Missouri Valley	0
J. E. Fry, Missouri Valley Carl Small, Valley Junction.	0
	0.0
	10
	10
Rex Beam, Elkhart. Eimer Heifner, Des Moines	20
	10
	20
	69
	28
	20
	10
	20
	20
	40
	26
L. F. Cash, Fagie Grove	20
	20-
D. B. Belton, Correctionville.	20
M. Whitmore, Sheldon	20
	20
Ben Hanson, Nora Springs. J. Rubik, Elma.	20
J. Rubik, Elma.	20
O. A. Ontyes, Holland	40
J. Battgar, Ollie	50
H. L. Stutzman, Harlan	20
	20
W. Plows, Chariton	20
W. Plows, Chariton. R. D. Hull, Oskaloosa. H. L. Cappock, Nora Springs.	20
H. L. Cappock, Nora Springs.	20
H. L. Cappock, Nora Springs. B. M. Hansen, Nora Springs.	20
	20
	20
	20
	40
	20
	20
R. Davis, Polk City	-
	170
Total Pheasant eggs distributed in spring of 19214.	-
MALLARD DUCK EGGS-1921	15
J. E. Child, Toledo	15
	15
	15
	15
	15
Mrs. Clark Gray, Extra	12

DISTRIBUTION OF EGGS AND BIRDS-Continued.
Number of
Sent to- Reggs Alexander McBiain, Grimes
A. E. Wielland, Des Moines
G. A. Mountain, Valley Junction
J. E. Krouse, Davenport
A. R. Corey, Des Moines
Ethel Pegram, Norwalk
The second secon
Total Mallard eggs distributed in spring of 1921 252
ENGLISH CALL DUCK EGGS-1921
J. McGee, Mason City 30
L. E. Heifner, Des Moines
Mollie Kennelly, Stuart
Dr. Lee G. Dick, Oakland
L. E. Helfner, Des Moines
W. H. Fuller, Boone
W. F. Hunt, Des Moines
R. C. Pennington, Rippey
H. Wheaton, Des Moines 15
A. McClelland, Adelphic
Rex Beam, Elkhart 15
Total Call Duck eggs distributed in spring of 1921 180
BIRDS DISTRIBUTED DURING THE YEAR ENDING JUNE 30, 1921
PHEASANTS
A. P. Shira, Pairport
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge. 24
A. P. Shira, Pairport. 12 J. B. Black, Fort Dodge 22 D. D. McOtl, Perry 2
A. F. Shira, Pairport. 12 J. B. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Monlo 5 W. S. Hart, Waukon 24
A. F. Shira, Pairport. 12 J. B. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge. 24 D. D. McColl, Perry. 2 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12
A. F. Shira, Pairport. 12 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines 6
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines. 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 6
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 23 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines, 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 6 J. M. McDonald, Dubuque 4
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Wankon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 4
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 D. J. McOoll, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines 6 Sen. McCall, Cherokes 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 4 Dr. Williams, Oskaloosa 4
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 C. Harris, Des Moines 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 4 Dr. Williams, Oskaloosa 6 Dr. Williams, Oskaloosa 6 T. Jackson, Oskaloosa 6
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge. 24 D. J. McOoll, Perry. 2 H. J. Whitsfield, Cedar Rapids 12 H. J. Whitsfield, Cedar Rapids 24 J. A. Lang, Algona 24 W. E. G. Saunders, Emmetsburg 12 W. E. G. Saunders, Emmetsburg 12 R. Rayland, Oskaloosa 5 Sen. McCall, Cherokee. 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 4 D. Williams, Oskaloosa 4 T. Jackson, Oskaloosa 5 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jalgood, Tracy 4
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 23 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 25 H. J. Whitefield, Cedar Bapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 5 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetaburg 12 C. Harris, Des Moines. 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 6 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 Dr. Williams, Oskaloosa 6 Dr. Williams, Oskaloosa 6 J. Algood, Tracy 4 H. Gilliappie, Grinnell 2
A. P. Shira, Pairport. 12 J. B. Black, Fort Dodge 21 J. B. Black, Fort Dodge 22 D. D. McColl, Perry 22 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Menlo 64 W. S. Hart, Wankon 24 J. A. Lang, Algona 12 C. Harris, Des Moines 12 C. Harris, Des Moines 65 Sen McCall, Cherokee 12 R. Rayland, Oskaloosa 55 J. M. McDonald, Dubuque 4 J. Keynolds, oskaloosa 65 J. M. Williams, Oskaloosa 65 J. M. School 65 J. Algood, Tracy 64 H. Gillispie, Grinnell 25 E. E. Breaniman, Brooklyn 25 E. E. E. Erenniman, Brooklyn 25 E. E. Erenniman, Brooklyn 25 E. E. E. Erenniman, Brooklyn 25 E. E. E. Erenniman, Brooklyn 25 E. Erenniman, Bro
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 23 J. R. Black, Fort Dodge 24 D. D. McColl, Perry 22 H. J. Whitefield, Cedar Rapids 12 H. J. Whitefield, Cedar Rapids 12 W. E. G. Saunders, Emmetsburg 24 W. E. G. Saunders, Emmetsburg 12 W. E. G. Saunders, Emmetsburg 14 D. R. Rayland, Oskaloosa 5 D. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 5 J. Algood, Tracy 4 H. Gilliapie, Grinnell 2 E. E. Breaniman, Brooklyn 3 E. E. Breaniman, Brooklyn 3 E. E. Breaniman, Brooklyn 3 E. W. Williams, Machester 4
A. F. Shira, Fairport. 12 J. B. Black, Fort Dodge 24 J. B. Black, Fort Dodge 25 D. McColl, Ferry 22 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 C. Harris, Des Moines 5 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 6 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 4 Dr. Williams, Oskaloosa 6 J. Algood, Tracy 4 H. Gillispie, Grinnell 2 E. E. Brenniman, Brooklyn 3 E. W. Williams, Manchester 4 H. Newton, Dubuque 4 H. Newton, Dubuque 4 H. Newton, Dubuque 4
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 25 D. McColl, Perry. 22 H. J. Whitefield, Cedar Rapids 12 H. J. Whitefield, Cedar Rapids 12 W. E. G. Saunders, Emmetsburg 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines. 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 6 H. Jackson, Oskaloosa 6 H. Jackson, Dskaloosa 6 H. Gillispie, Grinnell 3 E. E. Brenniman, Brooklyn 3 E. E. Rrenniman, Brooklyn 3 E. E. W. Williams, Makadester 4 H. Newton, Dubuque 4 D. Stewart, LeMars 1
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 25 D. McColl, Perry. 2 H. J. Whitefield, Cedar Rapids 12 H. J. Whitefield, Cedar Rapids 25 H. J. Waint, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines. 6 Sen. McCall, Cherokes 12 R. Rayland, Oskaloosa 6 Sen. McCall, Cherokes 4 J. Reynolds, Oskaloosa 6 J. J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 7 D. Allyood 7 T. Jackson, Oskaloosa 7 D. Jackson 1 D. Allyood 7 D. Jackson 1 D.
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 25 D. McColl, Perry. 22 H. J. Whitefield, Cedar Rapids 12 H. J. Whitefield, Cedar Rapids 12 W. E. G. Saunders, Emmetsburg 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines. 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 6 H. Jackson, Oskaloosa 6 H. Jackson, Dskaloosa 6 H. Gillispie, Grinnell 3 E. E. Brenniman, Brooklyn 3 E. E. Rrenniman, Brooklyn 3 E. E. W. Williams, Makadester 4 H. Newton, Dubuque 4 D. Stewart, LeMars 1
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge. 24 D. J. McOoll, Perry. 22 H. J. Whitsfield, Cedar Rapids 12 H. J. Whitsfield, Cedar Rapids 12 W. E. G. Saunders, Emmetsburg 14 D. Harris, Des Moines, 6 Sen. McCall, Cherokes 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 E. B. Breaniman, Brooklyn 2 E. E. Breaniman, Brooklyn 2 E. E. Breaniman, Brooklyn 3 E. W. Williams, Manchester 4 N. Newton, Dubuque 1 D. Stewart, LeMars 1 R. P. Monplasure, Clear Lake 1 Total Pheasants distributed during year ending June 26, 1921 166
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 24 D. D. McColl, Perry. 22 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 46 W. S. Hart, Waukon 24 J. A. Lang, Algona 21 W. E. G. Saunders, Emmetsburg 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines 68 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 65 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 65 J. Algond, Tracy 67 H. Gilliapie, Grinnell 25 E. E. Breaniman, Brooklyn 25 E. E. Breaniman, Brooklyn 32 E. W. Williams, Oskaloosa 64 H. Newton, Dubuque 44 D. Stewart, LeMars 11 R. P. Monplasure, Clear Lake 1
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge. 24 J. R. Black, Fort Dodge. 25 D. McColl, Ferry. 22 H. J. Whitsfield, Cedar Rapids 12 T. Wright, Menlo 6 W. S. Hart, Waukon 24 J. A. Lang, Algona 12 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moinos. 12 C. Harris, Des Moinos. 12 R. Rayland, Oskaloosa 12 J. Reynolds, Oskaloosa 12 J. Reynolds, Oskaloosa 14 J. Reynolds, Oskaloosa 15 J. Algood. Tracy 16 H. Gillispie, Grinnell 17 L. E. Brenniman, Brooklyn 18 E. W. Williams, Manchester 19 H. Newton, Dubuque 19 L. Stewart, LeMars. 11 Total Pheasants distributed during year ending June 20, 1921 165 MALLARD DUCKS A. F. Shira, Fairport. 6
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 24 D. D. McColl, Perry 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 4 W. S. Hart, Waukon 24 J. A. Lang, Algona 24 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines, 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 6 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 T. Jackson, Oskaloosa 6 H. Gillispie, Grinnell 2 E. E. Brenniman, Brooklyn 2 E. E. Rrenniman, Brooklyn 3 E. W. Williams, Manchester 4 H. Newton, Dubuque 4 D. Stewart, LeMars 1 R. P. Monplasure, Clear Lake 1 Total Pheasants distributed during year ending June 30, 1921 165 MALLAND DUCKS A. F. Shira, Fairport. 6 W. E. G. Saunders, Emmetsburg 12
A. F. Shira, Fairport. 12 J. R. Black, Fort Dodge 24 J. R. Black, Fort Dodge 24 D. D. McColl, Perry 2 H. J. Whitefield, Cedar Rapids 12 T. Wright, Menlo 4 W. S. Hart, Waukon 24 J. A. Lang, Algona 24 W. E. G. Saunders, Emmetsburg 12 C. Harris, Des Moines 6 Sen. McCall, Cherokee 12 R. Rayland, Oskaloosa 5 J. M. McDonald, Dubuque 4 J. Reynolds, Oskaloosa 6 J. J. Reynolds, Oskaloosa 6 T. Jackson, Oskaloosa 7 R. Gillispie, Grinnell 3 E. E. Brenniman, Brooklyn 3 E. E. Rrenniman, Brooklyn 3 E. W. Williams, Manchester 4 Newton, Dubuque 4 D. Stewart, LeMars 1 R. P. Monplasure, Clear Lake 1 Total Pheasants distributed during year ending June 30, 1921 165 MALLARD DUCKS A. F. Shira, Fairport. 6 W. E. O. Saunders, Emmetsburg 12

	Number of
Sent to-	Eggs
H. Shropshire, Des Moines.	6
H. Shropshire, Des. Robert Huntington, Council Bluffs.	1
Robert Huntington. E W. Williams, Manchester A Simoness. Dubuque.	
w w Thombern Manchester	
re re-C-11 Woodward	Calcada &
A. Pisher, Dubuque	5
Total Mallards distributed during year ending June 36, 192	1 177
ENGLISH CALL DUCKS	
	0
H. Gooding, Des Moines	100000
H. Gooding. Jose and M. Hoffman, Muscatine. H. Kuepp, Dubuque	
H. Kuepp, Dubuque Chas. Hobson, Clarinda	000000
Dr. Donahue, Cherokee	
Dr. Donahue, Cherokee E. J. Willis, Riceville	6
M. Little, Des Moines	6
Bob Huntington, Council Bluffs	6
Vernon Seeburger, Des Moines	7
E. E. Weller, Des Moines	8
A Simonese Dubuque	* * * * * * * * * * * * * * * * * * *
G. B. Coon, Des Moines	8
r. C Kautz Muscatine	ARREST A
A C Bahenck Sabula	*****
B C Higgins, Mason City	esters 3
C W Alexander Boone	ACCES #
Claric Waite, Bristow	second 6
J. McGee, Mason City	2
Total Call Ducks distributed during year ending June 30, 1	921 92
EGGS DISTRIBUTED IN SPRING OF 1922	
PHEASANT EGGS	
Hayes Muhs, Davenport	15
Bud Thoonson Davannort	LUNCHES - AM
Herman A Swanson, Ottumwa.	ACCES AND
Edwin Rittle, Lishon.	LEXELES AN
Geo. Tangeman. Keystone	30
T. W. Huisman, Grundy Center.	LORDING AF
Mes Pennie Belelegon Bainback	resters AU
Irene Goodhue, Newton	course 10
J. L. Huelay Lanox	
Mahal Haff Waterley	19
W. A. Rentz Cresco	20
C. A. Wassoner Creston.	SERVICE AN
J. C. McClune, Oskaloosa	40
J. S. Hilliard, Manchester	
Tom Waters, Des Molnes	
Geo. King Des Moines	13

DISTRIBUTION OF EGGS AND BIRDS-Continued.

Sent to— Eggs	
Pennk Thorton, Altoons	
Dr. J. M. Vernon, Des Moines 15	
M V. Raird, Greenfield	
Tulius Taxy. Daysnport	
G. C. Mowry, Toronto	
W F McNew, Nevada 36	
T. J. Reddin, Cascade 12	
Geo. Rogers, Cascade	
I W Johnson Pt Dodge	
John Watters Grand Junction	
Gen Weist Ft Atkinson	
I C. Ritchie, Stratford	
Carl K Bixler, Corning	
Joe Wingert, Milford 12	
D. A. Beckwith, Tama	
Frud Yorum, Louan 12	
Jos Smith, Des Moines	
Harry F. Carlson, Oskaloosa	
R R Reid Lisbon	
Geo A. Turney, Lamoni	
J. J. Langenfeld, Earling 24	
F. F. Mayer, Humboldt 12	
Russel Lux, Hopkinton 12	
Wm. Kasischke, Buckeys	
Chas. Newberger, Ackley 12	
Martin Moe, St. Ansgar	
Will Springer, Grundy Center 12	
Chester Phillips, West Liberty 12	
Gray Gowans, Emmetsburg 14	
Alma Sweirin, Reinbeck	
Lewis J. Gaylord, Tabor 15	
Lewis J. Gaylord, Tabor	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 MALLAND DUCK EGGS Miss G. Peague, Weldon 15 H. I. McRoberts, Columbus Junction 15 M. A. De Shiell, Newton 15	
Lewis J. Gaylord, Tabor 15	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 W. A. De Shieli, Newton 15 Wm. Potter, Ottumwa 30 Ray McCulley, Oakland 15	
Lewis J. Gaylord, Tabor 15 W. Shea, Blakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 MALLAND DUCK EGGS Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 M. A. De Shiell, Newton 15 Wm. Potter, Ottumwa 39 Ray McCulley, Oakland 15 Joseph E. Child, Toledo 15	
Lewis J. Gaylord, Tabor 15 W. Shea, Blakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 M. A. De Shleil, Newton 15 Wm. Potter, Ottumwa 30 Ray McCulley, Oakland 15 Joseph E. Child, Tolede 15 J. A. Hanft, Columbus Junction 16	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 MALLAND DUCK Eggs Mias G. Peague, Weldon 15 H. I. McRoberts, Columbus Junction 15 W. A. De Shieli, Newton 15 Wm. Potter, Ottumwa 39 Ray McCulley, Oakland 15 Jaceph E. Child, Toledo 15 J. A. Hanft, Columbus Junction 15 Carl K. Bixler, Coroling 15	
Lewis J. Gaylord, Tabor 15 W. Shea, Blakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 M. A. De Shiell, Newton 15 May McCulley, Oakland 15 Hay McCulley, Oakland 15 J. A. Hantt, Columbus Junction 15 J. A. Hantt, Columbus Junction 15 Carl K. Bixler, Corning 15 Guy Hitchings, Independence 36	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Malland Duck Eggs Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 W. A. De Shiell, Newton 15 Wm. Potter, Ottumwa 30 Rsy McCulley, Oakland 15 Joseph E. Child, Toledo 15 J. A. Hanft, Columbus Junction 15 Carl K. Bixler, Coroling 15 Guy Hitchings, Independence 38 Jos Janeser, Des Moines 16	
Lewis J. Gaylord, Tabor 15 W. Shea, Blakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 M. A. De Shiell, Newton 15 May McCulley, Oakland 15 Hay McCulley, Oakland 15 J. A. Hantt, Columbus Junction 15 J. A. Hantt, Columbus Junction 15 Carl K. Bixler, Corning 15 Guy Hitchings, Independence 36	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Malland Duck Eggs Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 W. A. De Shiell, Newton 15 Wm. Potter, Ottumwa 30 Rsy McCulley, Oakland 15 Joseph E. Child, Toledo 15 J. A. Hanft, Columbus Junction 15 Carl K. Bixler, Coroling 15 Guy Hitchings, Independence 38 Jos Janeser, Des Moines 16	
Lewis J. Gaylord, Tabor 15 W. Shea, Biakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 MALLAND DUCK Eggs Mals G. Peague, Weldon 15 M. A. De Shieli, Newton 15 M. A. De Shieli, Newton 15 Wm. Potter, Otumwa 39 Ray McCulley, Oakland 15 Joseph B. Child, Toledo 15 J. A. Hanft, Columbus Junction 15 Carl K. Bixler, Coroling 15 Guy Hitchings, Independence 36 Joe Janeser, Des Moines 15 W. G. Ewinger, Burlington 30 Total Mallard Duck eggs distributed in spring of 1922 210	
Lewis J. Gaylord, Tabor 15 W. Shea, Blakesburg 15 Total Pheasant eggs distributed in spring of 1922 816 Miss G. Peague, Weldon 15 H. L. McRoberts, Columbus Junction 15 M. A. De Shiell, Newton 15 Wm. Potter, Ottumwa 30 Ray McCulley, Oakland 15 J. A. Hanft, Columbus Junction 15 2arl K. Bixler, Coroling 15 Guy Hitchings Independence 20 Jos Janeser, Des Moines 15 W. O. Ewinger, Burlington 30 Total Mallard Duck eggs distributed in spring of 1822 216 ENGLISH CALL DUCK Eggs	
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BIRDS DISTRIBUTED DURING THE YEAR ENDING JUNE 30, 1922 PHEASANTS

	Number of Eggs
Sent to-	
J. H. McGee, Mason City	
Dr. C. E. Cook, New London	2
W. E. G. Saunders, Emmetaburg	2
W. E. G. Saunders, Emmelsourg.	1
Geo. West, Marshalltown	1
Geo. West, Marshalltown Ed. Bensch, Lansing	1
Total Pheasants distributed during year ending June 30,	1922 95
MALLARD DUCKS	
J. E. Drake, Holland	
H. O. Weaver, Wapeno.	2

A. J. Sparks, Sully
P. L. Hartsough, Oelwein
Geo. Payton, Centerville
L. N. Balnard, Ames
H. H. Masteller, Lacey
F. Sullivan, Dubuque
H. B. Marshall, Sabula
Joe Kelso, Bellevue
Claude Harris, Des Moines
G. F. Wood, Cedar Falls
S. Jackson, Des Moines
C. H. Watthers, Des Moines
2
C. H. Watthers, Des Moines
2

DISTRIBUTION OF EGGS AND BIRDS-Continued.

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ards distributed during year anding June 30, 1922 114
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Total Call Ducks distributed during year ending June 20, 1922: . 59

SUMMARY OF DISTRIBUTION OF BIRDS AND EGGS FROM GAME FARM

	June 30, 1921 Jun	r Ending e 30, 1921
Pheasant eggs	4,170	816
Mallard Duck eggs	252	210
English Call Duck eggs	180	121
Pheasants	160	95
Mallard Ducks	177	114
English Call Ducks	9.0	59

PROSECUTIONS FOR VIOLATIONS OF THE FISH AND GAME LAWS

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PROSECUTIONS FOR VIOLATIONS OF THE FISH AND GAME LAWS

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PROSECUTIONS FOR VIOLATIONS OF THE FISH AND GAME LAWS-Continued

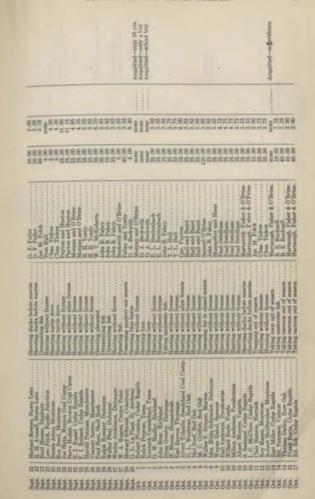
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PROSECUTIONS FOR VIOLATIONS OF THE FISH AND GAME LAWS-Continued

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