#### Volume 8

Limit

**NOVEMBER 15, 1949** 

Number 11

## WILDLIFE'S 15 YEARS AT COLLEGE

## PITTMAN - ROBERTSON COOPERATIVE WILDLIFE RESEARCH UNIT PAYS PYRAMIDING DIVIDENDS

## TO DATE IN IOWA

By Lester F. Faber Superintendent, Federal Aid Section

In 1937 the Congress of the United States passed the law known as the Federal Aid in Wildlife Restoration Act. This Act put a 10 per cent excise tax on sporting arms and ammunitions. The money is collected in and returned to the 48 states, Alaska, Puerto Rico, Hawaii, and the Virgin Islands. These funds are administered by the Federal Aid Branch of the U.S. Fish and Wildlife Service. Distribution to the states is based on area of the land



By Edward L. Kozicky

Leader, Iowa Cooperative Wildlife **Research Unit** 

On July 1, 1949, the Iowa Cooperative Wildlife Research Unit started on its fifteenth year of wildlife research, education and extension work under the sponsorship of the Iowa State Conservation Commission, the Iowa State College, the U. S. Fish and Wildlife Service, and the Wildlife Management Institute. Unit findings have contributed to better management of wildlife in Iowa through the improvement of game census techniques, the revision of

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braska, n figur.

> surface and number of hunting licenses sold each year.

Under the provisions of this Act, the state adds 25 cents to each 75 cents of federal funds. The total becomes the annual Pittman-Robertson operating budget.

The money gathered is distributed to the states each year, usually on July 1. It must be used for wildlife restoration work where game species receive primary benefit.

The regulations allow P. R. (Pittman-Robertson) funds to be used along five major lines: 1) Coordination-Provides for state personnel and equipment; 2) Acquisition-Allows for purchase of submarginal land, marsh areas, or other land suitable for development of wildlife; 3) Habitat development-On state-owned land, on areas purchased for the purpose, or on private lands; 4) Maintenance of areas; 5) Wildlife surveys and investigations.

#### Coordination

From 1939 until 1948, responsibility for administering the P. R. program in Iowa was not centralized. July 1 of that year a separate section was set up in the Division of Fish and Game of the State Conservation Commission. It is

(Continued on page 184)

The muskrat in Iowa is a million-dollar fur animal. Continuous and intensive investigation by the lowa Cooperative Research Unit has provided us with a vast store of knowledge of the fluctuation of wild mammal populations. Jim Sherman Photo.

#### PRESERVATION OF PREHISTORIC INDIAN MOUNDS PURPOSE OF NEW NATIONAL MONUMENT

#### President Signs Proclamation Establishing Iowa's **First National Monument**

#### By James R. Harlan Assistant Director

tion of this land, containing more than a hundred Indian mounds, described as among the "very fin-

Hopes and dreams of conservation leaders for more than 35 years were realized with the President's bered that since the beginning of signature October 25 on the proclamation establishing the Yellow River Mound Area in Clayton and Allamakee counties as a national monument. By authority of an til only a pitiful remnant of their enabling act of the 49th General original thousands remains intact. Assembly, the 1,000-acre tract has been deeded by the Conservation er a tract of non-agricultural land Commission to the National Park Service to be administered as a national monument-Iowa's first.

est on this continent," cannot be over-emphasized when it is rememwhite man's occupancy, these most important evidences of the mound builders have been vandalized and destroyed in most of the state un-The accumulated purchases covapproximately three miles north and south and a half mile east and west situated at the mouth of the (Continued on page 183)

game laws, and the establishment of game management practices. In addition, students have been trained and are now employed in Iowa and 30 other states, Alaska and Canada as biologists, teachers and administrators.

Iowa can be proud that the idea of the Cooperative Wildlife Research Program was initiated by one of its foremost conservationists, J. N. "Ding" Darling.

In 1932 "Ding" had the foresight to see the need for scientific facts upon which to formulate a game management program for the state of Iowa. With this in mind he contributed personal funds and gained the support of the State Conservation Commission and Iowa State College for cooperative wildlife research work. Upon being appointed Chief of the U.S. Biological Survey (now U. S. Fish and Wildlife Service) in 1935, he supervised the establishment of the Cooperative Wildlife Research Units. The success of this venture in Iowa is reflected in the 13 additional units that are now in existence at land grant colleges in Alabama, Colorado, Idaho, Maine, Massachusetts, Missouri, Ohio, Oklahoma, Oregon, Pennsylvania, Texas, Utah and Virginia.

Since the inception of the program at Iowa State College, about

(Continued on page 182)

The importance of the acquisi-

#### Page 178

#### Iowa Conservationist

Published Monthly By THE IOWA STATE CONSERVATION COMMISSION 914 Grand Avenue-Des Moines, Iowa (No Rights Reserved) WM. S. BEARDSLEY, Governor of Iowa BRUCE F. STILES, Director JAMES R. HARLAN, Editor LOIS RECKNOR, Associate Editor

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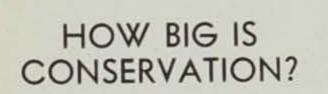
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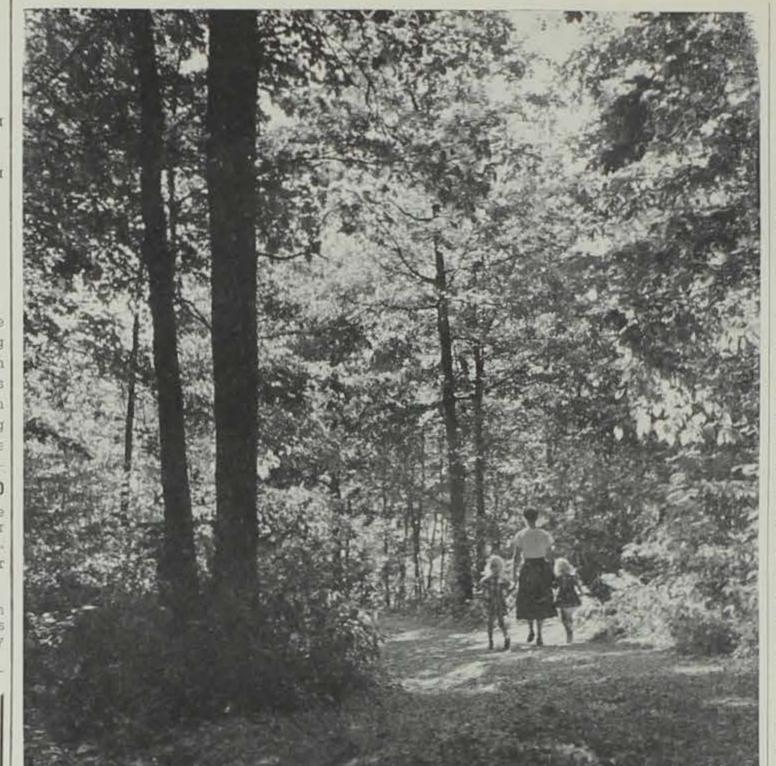


#### By George W. Worley **Education Assistant**

Conservation is so big it deals with all the world, its soil, water, green plants, minerals, wildlife, and people.

The best way to do a big job is to break it up into small parts. That's the way we must do the big job of conservation, but let's not become so tied up in our small jobs that we forget the big one, our real goal-total conservation.

#### IOWA CONSERVATIONIST



In mid-October Mother Nature puts on a big show, making the days extra nice and bringing beautiful colors to the trees. Jim Sherman Photo.

### A MAJOR PART OF FISHING

#### By J. Curtis Grigg

In mid-October we took a trip up along the Mississippi, and we exploring trips. Of course we were fishing and still we noted the bright red and yellow forests. Seems like Mother Nature puts on a big show because she is sorry that summer is leaving. So she makes the days extra nice and brings beautiful colors to the trees and even the common weeds are dressed up so you wouldn't know them. Mother Nature is extravagant; when she puts on her farewell party for the departing summer, it's something mere man cannot duplicate for color. The harmonizing shades of brown, red and yellow-why, I even forgot about fishing when I looked over some of that country. Wonder if the fellow who said "Thar's gold in them thar hills" wasn't looking at the sugar maples in October? Couldn't help but think what a shame all this beauty was going to waste and most people too busy to even give it a second look or maybe never see it.

fallen snow, but we often only see the cold side of the picture. Like man, all nature has to sleep part of the time.

The world is a beautiful place and God will send us a new day Tomorrow, and spring will come again. It has always been so. I think it the time of year ideal for always thought when the going was tough, as it is for all of us, that it was a wonderful thing that we had to live only one day at a time and, if we managed to get through that day, we would get a new, unspoiled day, Tomorrow. Brother, I apply this thought to my fishing-if they don't bite today, maybe they will tomorrow, so I go and see. Nothing like faith, you know. Can't catch fish without it. Just as necessary as the she doesn't do things by halves and bait, only more so.-Hopkinton Leader.

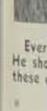
#### NESTING BOX CAMPAIGN HELPS WOOD DUCKS

Nesting boxes set out by state conservation officers and sportsmen throughout the Northeast have been occupied heavily by wood ducks during the past breeding season.

Fully 90 per cent of all nesting boxes put out in Massachusetts, New Hampshire, Pennsylvania, Vermont, Ohio and other states were occupied by nesting birds this summer. The Massachusetts Department of Conservation started the ball rolling when it developed the idea of purchasing war surplus ammunition boxes with Pittman-Robertson funds, converting them to nesting boxes, and distributing them to suitable breeding grounds throughout the state. Other states began similar projects to alleviate the housing shortage for the wood duck.

Massachusetts studies showed that boxes placed on posts set in the water received far more response than those situated in trees. Squirrels, mice and raccoons usually invaded tree nesting boxes before the woodies had a chance to use them, and only 16 per cent of those not placed on poles in water were used by ducks.

Under natural conditions wood ducks nest in hollow trees, but intensive lumbering throughout the breeding range has reduced suitable nesting sites to a minimum. The success of the present program indicates that the wood duck, once seriously threatened with extermination, is here to stay .-- Wildlife Management Institute.



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There is no such thing as soil conservation by itself. There is no such thing as forest conservation, or water conservation, or wildlife conservation by itself. Each is a small part of one big jobtotal conservation.

In total conservation each resource must be managed according to its relation to all others. Thus, wildlife conservation advances through wise use of soil, water, and green plants. Natural resources are tied together in a common relationship. We cannot afford to ignore those ties, for they make our job easier. By conserving one resource, we aid in the conservation of others. By conserving all, we conserve each one.

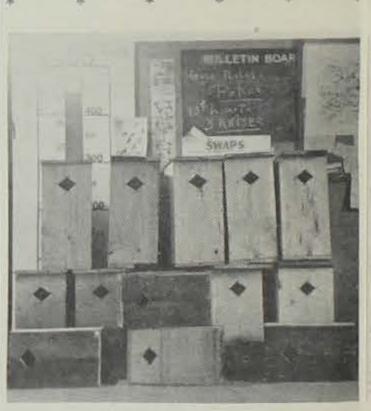
Conservation is so big it encompasses all soil, water, plants, minerals, wildlife, and people. Conservation is so small that it deals with planting a single tree, or stopping a single gully.

Yes, friend, soon the last leaves will fall and the cold winds will blow. Winter will come and the leaves will fade and blow away, so take a look while they are here.

While we dread the coming of winter, there is much beauty in the woods, fields, hills and streams when they are covered with new soil itself.

We don't suppose that the Indians will ever return to Iowa, but the wildlife of the state seems to be on the increase in recent years. In some instances the growth of game populations is proving to be a real nuisance to farmers. Last year the Iowa State Conservation Commission took steps to control the beaver population and now the Commission has set up 20 schools to give trappers and farmers specific direction in trapping to control fox and coyote. If we get enough beaver, fox and coyote, with a few deer and buffalo thrown in for good measure-who knows, we may find the Indians returning. -Osage Press.

Much more research is needed to determine the effects of D.D.T. and other poisons on wildlife and on the

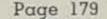


Part of several hundred wood duck nesting boxes built by the Des Moines Chapter of the Izaak Walton League and placed along the streams in Polk County.

#### What A Mistake!

Last deer season, a fellow in Wisconsin hit the dirt when a high-powered slug whined over his head. He lay tight until a redcoated female rushed up and asked breathlessly if he was hurt.

"Really, I'm awfully sorry," she admitted. "I thought you were my husband!"





Every boy should be taught how to carry his gun and never to point it at anyone. He should know that it is a dangerous instrument, and Dad should be the teacher of these essentials. Jim Sherman Photo.

#### SHOULD SONNY HAVE A GUN?

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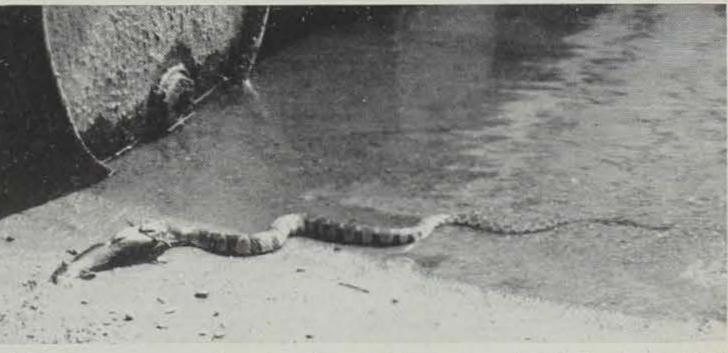
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#### What is the answer? Say those who have studied the problem, "A boy can be too young for a gun and hunting with other Among the certain signs of the boys." How old must he be? They coming of fall are the small groups say that this depends upon the of boys who tramp the roads to the boy-and his father-whether the

CHRISTMAS GIFT SUBSCRIPTION Do you enjoy your IOWA CONSERVATIONIST? Do you have a friend who would enjoy reading it? Do you send Christmas gifts? Do you wonder what to send? Would you be remembered 36 successive months as well as Christmas morning? If the answers are "yes," fill in the blank below, enclose in an envelope with a dollar bill, and mail to the State Conservation Commission. We will send a Christmas greeting for you and begin the gift subscription in January. State Conservation Commission 914 Grand Avenue Des Moines 9, Iowa Date ..... Enclosed is \$1.00 for a 36-month gift subscription to the IOWA CONSERVATIONIST for (Name) to provide and a real and an end of a state of the state of the state of the state IN ANY ADDRESS ADD (Address) This gift subscription is sent by A PRINT PARAMANA A PRINT PARAMANA A PARAMANA A PARAMANA (Address) PLEASE PRINT PLAINLY 



woods, each armed with a gun. Sometimes it's a small rifle, sometimes a light shotgun. Occasionally a favored dog or two is with them, chasing here and there, sniffing at the trail of some big or little beast, letting out a yelp now and then, announcing what he believes to be a discovery of something that the boys should hunt out.

It's good for the boys to be on a tramp into the woods. It might be just as good without the gun, but boys do not always agree with that idea. "Aw!" they protest, "tain't enough fun without a gun."

and Dad also with an ever recurring problem: Should the boy be allowed to have a gun and go on a gun. these so-called hunting jaunts from which the boys rarely bring take a gun to play with or hunt back any game of value, although the tramp has been good for them?

Parents, alarmed by news stories from many communities in the state, telling of a shocking accident to some boy with a gun, are stirred to refuse to buy the boy a Billy, his pal, has a gun and isn't goes.

father knows enough about a gun and takes the time to teach his boy how to use it. General opinion is that a boy should be well along in his teens.

In a recent talk to a 4-H boys' club in Williamsburg, Iowa County, Wes Ashby, conservation officer, told the boys some worthwhile things, reported by the Marengo Pioneer Republican. Among them were these:

Danger in handling guns lies in two things-not knowing how to handle them properly and plain foolhardy carelessness.

Foolhardiness can usually be And that presents Mother, first, blamed on the boy himself, but it is parents who are to blame when the boy doesn't know how to handle

> Parents should not let their son with when he is too young for such responsibility. What is worse, they—and that "they" is usually his dad-fail to give him proper safety instructions.

Every boy should be cautioned not to carry his gun loaded around gun. It's a dangerous thing, they the premises, never to point a gun object; it costs too much, but son at anyone, never to pick it up withbravely says he'll earn the money out checking to be sure it is not himself, protesting that wouldn't loaded, how to carry it without enhappen to him. He's too young dangering his companions. Then but the answer to that is that one would not read so often where a lad had killed a little sister, his much older. And so the argument mother or other person because he of these essentials. - Knoxville "thought it wasn't loaded."

A harmless, common water-snake, after capturing a seven-inch bullhead, brought it ashore to make the process of swallowing less complicated. P. C. Walker Photo.

"Iowa Conservationist" 914 Grand Des Moines, Iowa

Gentlemen:

for it.

From time to time I have seen unusual pictures in my conservation magazine which, by the way I always enjoy. The enclosed picture is my first contribution. It was taken on August 16 on a fishing trip. My son called to me to come quick and see a snake swallowing a fish. The picture shows what I saw. This snake was between three and four feet long, and

A gun is not something to play

with. It is very much a business

instrument. When the hunting is

over, the gun should be emptied of

its cartridges and put up, not to be

taken down until there is again use

the bullhead was seven inches in length. As can be seen in the picture, the snake was doing well with his meal until he encountered the horns, but in time I presume he would have forced them back and completed his meal. He was disturbed by our presence, dropped the fish and swam off in the water.

These common water-snakes are non-poisonous but to some people, including some men, they have a very frightening effect.

> P. C. Walker Cedar Rapids, Iowa

#### FOR SALE

Wild ducks are in good supply at Muscatine retail markets and are selling for 15 cents each, dressed. -Muscatine Journal, October 24, 1874.

And Dad should be the teacher Journal.

#### The largest living mammal is the blue black whale with a total length of 103 feet and weighing 147 tons.



The new 400-acre artificial lake being constructed on Honey Creek has been named Lake Darling in honor of Jay N. "Ding" Darling, one of the nation's outstanding conservationists. Construction is steadily progressing. Jim Sherman Photo.

#### "LAKE DARLING" IS NAME OF NEW LAKE

Naming the Washington-Jefferson-Keokuk county lake the "'Ding' Darling Lake" we think will meet the approval of everyone in the three counties, for two reasons: (1) "Ding" Darling is, beyond a doubt, one of the nation's greatest conservationists; (2) his cartoons have found their way into every home in the nation. As a result he has become the best and most favorably known picture writer in the nation.

lake. One of our group did, however, propose the name "Wakeje' (pronounced Wah-ka-gee) — the first syllable for Washington County, the second for Keokuk County, and the third for Jefferson County 'Wah-ka'-gee'' is the native New Zealand word for safe canoeing. Ralph Shannon immediately stated in his Washington Journal that he thought our name was very appropriate.

The State Conservation Commis-

Wardens Jales Shop Talk From the Field

Conservation Officer Walt Harvey, in charge of Grundy and Marshall counties, writes:

the scene of an unusual wildlife heaped up and made into gardenkill. During a recent windstorm covered hills much like the hanga highline carrying 2,300 volts of electricity was blown over. The made lake was 3,700 cubits long, wires did not go to the ground, but about two or three inches above. The line runs through a field to a cabin owned by Fred Harding knew how to get things done withabout three miles northwest of Marshalltown. As soon as the down line was discovered, it was reported to the power company here at Marshalltown and was promptly repaired.

"The accident to the wildlife was reported to me by Jim Cooper, a farmer living close by. Here is what I found: 10 dead raccoon, ranging from about 25 pounds down to this year's coon; two opossum; one half-breed coon dog; and one black cat. Some of the animals were burned very badly. The area surrounding the scene contains excellent wildlife cover, with a large pond off to the left of the picture. Apparently the pond was a favorite fishing place for the raccoon in the neighborhood, as well as a meeting place for other nocturnal wildlife. We believe that the line was down only two nights."

in Wright and Hancock counties, duck hunting you might find this a writes:

#### WE KNOW ABOUT SILT

If we had the knowledge to build lakes as they did about 3,400 years ago, Geode Lake could be built in a fortnight. In 1400 B. C., King Amenotep III decided to build a lake as a gift to his charming wife Tiy. In 14 days the lake was com-"I am mailing pictures taken at plete and the excavated dirt was ing gardens of Babylon. This manwhich is more than a mile, and larger than Geode Lake will be. Those boys in the good old days out much red tape.-New London Journal.

> a string around his neck, almost hidden by his coat.

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"I introduced myself, checked his license, and he volunteered that he wasn't hunting ducks-never hunted ducks in his life, just rabbits. I told him I was glad of that, because it was long after duck shooting hours. He explained to me that he was a good conservationist and that if everyone obeyed the game laws as well as he did all the game wardens could be fired.

"About this point in the conversation I asked him to blow the rabbit call he had around his neck. He grew quite pinkish about the neck and ears, but he obliged by giving it a blow. I might add that it was rather a feeble toot.

"I suggested, 'You're in a darned poor spot to hunt rabbits, but if W. E. Ayers, conservation officer you ever decide to try your luck at pretty good flyway.'

(1) Being a great conservationist and an Iowa citizen, he is entitled to every recognition in Iowa. We move that a huge granite boulder be placed on the center of the dam carrying a plaque that will tell future generations why the lake was so named.

(2) The name "'Ding' Darling Lake," or "Lake Darling," will advertise this body of water and the surrounding parks to the four corners of the nation. As said suggested and immediately acceptabove, everyone old enough to read has become acquainted with "Ding" through his cartoons. When the nation learns that the largest man-made lake in Iowa has been named in his honor, every mother's son and daughter in the country will want to see it. The Conservation Commission is to be congratulated for selecting the name it did.

Those who have had a part in getting a lake on Honey Creek have had not a little fun trying to select a name for the enterprise. It appears that the fine and hardworking group of men over in Washington leaned toward the word Chauquaqua-an Indian word meaning skunk. Early maps of Iowa call the Skunk River the "Chauquaqua River." "Lake Chauquaqua" would have been a musically sounding name.

did not care much what the lake 1944, 36; 1945, 39; 1946, 43; 1947, was named, so long as we got a 34; 1948, 32.

sion very sensibly concluded that both the names "Chauquaqua" and "Wakeje" were too difficult to spell and remember. It asked the Izaak Walton League clubs of Jefferson and Washington counties what they thought of the name "Lake Honey Creek." The two clubs replied the name was perfectly satisfactory.

The name "Darling" was later ed by the State Conservation Commission. No better name could have been selected-the name of a great man and a great conservationist.

We are glad that this honor is being paid to "Ding" Darling while he is still living. The human being has a habit of paying little attention to our great men and women while they are still aliveafter the great have passed away we then build monuments in their honor.—Fairfield Ledger.

Deaths by accidental gunshot wounds in Iowa last year totaled 32, according to figures compiled by the Division of Vital Statistics of the Iowa State Department of Health. The number of accidental fatal shootings occurring in Iowa each year since 1940 follow: 1940, We people in Jefferson County 42; 1941, 32; 1942, 43; 1943, 35;

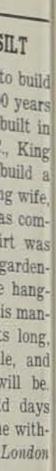
"I was checking a duck hunting area in Benton County when I noticed a gentleman walking along gazing skyward. As I came up I he insisted on showing me the new noticed that he had a duck call on duck stamp he had purchased."

"Evidently the gentleman decided to take my suggestion, because when I met him on the street later



Ten raccoon, two opossum, one dog and one cat were electrocuted by a highline wire in two nights in Marshall County. Cy Berg Photo.

#### Page 181



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"It is only when these amusements are followed so unceasingly as to rob us of that time, wealth and energy which were given us for other purposes that the pursuit of them can be censured.

#### THE PHILOSOPHY OF FIELD SPORTS

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

Because the beasts of the field being put under the especial control of man, it became his duty as well as his interest to make use of them. In the exercise of this duty originated field sports, which thus sanctioned are moral in principle and philosophic in effect. The ani-

sional diversions as an indispensable condition of their healthy exercise.

In this enlightened age it would appear almost scandalous to assert that fanaticism still influences are beneficial except in isolated the mind of some persons to a conviction that there is even great moral turpitude in the pursuit of field sports. If these be not great in number, there are many who think every hour thus spent is an entire waste of time. By a candid examination of the matter we should not despair of convincing both parties that they are in error. That the practice of field sporting is both innocent and useful we presume may be made evident And it is only when these rural amusements are followed so unceasingly as to rob us of that time. wealth and energy which were given us for other purposes, that the pursuit of them can be censured. It is also an abuse of the principles of humanity when the sensibilities are so morbidly directed as to blame all field sports because they tend to the destruction of animal life. These mistaken philanthropists would spare the fox, although he nightly preys on the innocent poultry of the industrious farmer. With such the hare and the rabbit might ravish the crop and the winged game be spared until their super-abundance endangered us and destroyed themselves. Field sports have been objected to as unfitting the mind for the study and practice of religion. But let the well meaning though mistaken fellow assure himself that a moderate pursuit of rural amusement would dim none of the ardor

of his reverence for his maker or was a divine command and they do his search after heaven. On the no more. The sportsman usually contrary, he might learn in the treats his horse and dog with a woods and field to contemplate God fondness not common among other in His works as effectively as he persons. studies Him at home in His word. Should he doubt this assertion, we would strongly recommend Walton's "Angler," in which unfeigned piety, benevolence, and all the Christian virtues shine ambiguous throughout. The writings of Walton and the habits of his life were of the same stamp. The piety he paints and the virtues he commends he practiced in an eminent degree.

engage in them are said to begat torture. He is first fairly sought a habit of cruelty and tend to harden the mind against the suffering of animals. But such a supposition can only be formed by superficial observers. We fearlessly assert that sportsmen are not in much less suffering than the prothe habit of practicing any wilful tracted miseries which age and cruelty. To "take, kill, and eat" decrepitude would inflict upon him.

Pursuit of all noxious animals is imposed upon us by necessity and is, therefore, neither wanton nor cruel. The fox is one which it is imperatively necessary to pursue to his destruction. His habits are marked with rapine and shedding of blood. In his destruction the pursuer, however, does not aggravate the fate of the plunderer by wanton infliction of pain. He does not strew poison in his path and Field sports by some who do not thus heighten his sufferings by for and when found is afforded a reasonable chance of escape. Should he be overtaken, his life pays the forfeit, but death is instantaneous and marked with

#### EXPERTS SAY BOUNTIES ARE WASTE OF MONEY

After more than 200 years of blood-letting and scalp-collecting, most conservation experts agree that it's a waste of money to set a price on the heads of foxes, coyotes, wolves, crows, mountain lions, weasels, certain hawks and such assorted villains. In fact, there is increasing evidence that most of these are not villains at all, but cases.

Nevertheless, the bounty system continues-principally because of

system doesn't seem to be the right method.

States are now trying to educate their citizens to accept the logical solution-intense local war where needed on predators by professional trappers.

The answer adds up the same: Bounties apparently do not control predators. However, predators must be controlled at times, and if the bounty system doesn't work, what will?

No one in conservation denies

1 decid because et later the new ed.

mals we follow, even to their destruction, become thereby objects of our attention. We examine their forms; we inquire into their habits; and an accumulation of useful knowledge is the consequence.

Although toil and sorrow have been entailed upon the bulk of mankind as a considerable portion of their inheritance, we read not of any canon that prohibits a temporary alleviation of these by means of sports, pastimes and amusements. These, indeed, may be said to form a necessary portion of our nature. The constitution of the human mind and body unfits them for incessant occupation, and imperatively dictates occa-



"The constitution of the human mind and body unfits them for incessant occupation and imperatively dictates occasional diversions as an indispensable condition of their healthy exercise."

two powerful factors: pronounced the necessity of controlling predapublic opinion, especially among hunters, in favor of bounties; and but all students of the problem an unhappy knowledge possessed by conservation officials that some predators sometimes must be controlled somehow, even if the bounty

tors occasionally in certain areas, are coming to the conclusion that such control should be the work of men trained to do the job.—Hampton Times.



Experts agree that it is a waste of money to set a price on the heads of predators. In fact, there is increasing evidence that most of them are not villains at all, but are beneficial except in isolated cases.



Bob-white quail studies have shown that surplus bob-white quail cannot survive the critical winter period. This surplus that otherwise would winter-kill is cropped by hunters during the brief open season. Jim Sherman Photo.

#### Wildlife's . . .

#### (Continued from page 177)

have been written by the Unit staff. Many birds and mammals ception of the types of essential have been studied, but emphasis has been placed on the game species.

As for the present program, there are active projects on the ring-necked pheasant, bob-white since 1935 on the 7,713-acre study quail, blue-winged teal, muskrat, tract in Decatur County have recottontail rabbit, parasites and dis- vealed a correlation between spring eases of wildlife, and plant ecol- and fall populations; consequently, ogy in waterfowl breeding areas.

These changes in cover and farming practices will be evaluated with pheasant production and 350 scientific and popular articles winter survival. This information will provide us with a better concover and the tolerance of pheasants to cover changes in northern Iowa.

#### **Bob-White Quail**

Quail population data gathered the fall and winter losses of this game bird will be closely scrutinized by student biologists. Recently, a rather complete study was terminated on the ecology and management of the bob-white on a state-owned experimental area in Davis County. Management effort resulted in increased utilization of upland habitat by quail during the winter months. In addition it was demonstrated that limited grazing by cattle helped to provide suitable quail nesting cover.

is a knowledge of the agents de- squirrel and raccoon. Numerous termining the presence or absence notes have been made on wildlife of beneficial aquatic plants. Basic species other than game and have information on this subject has contributed to our general knowlbeen collected and reported upon.

#### Game and Fur Mammals

The most important fur-bearer in Iowa and North America is the muskrat. This mammal has been the subject of intensive investiga- game species bagged by the hunter. tion since 1935. This study has provided us with some of the most advanced knowledge on the fluctuation in numbers of wild mammalian populations. Phenomena such as game population densities, compensatory losses, predation, cyclic behavior, and thresholds of Science, 39; Master of Science, 30; security have been explored and and Doctor of Philosophy, 20. more fully evaluated as important biological factors that determine the abundance of game in your favorite fall covert.

game species in the United States, has been the subject of intensive research by the Iowa Unit staff. Life history data, census techniques, parasites and diseases, and population fluctuations on given birds, game mammals, techniques areas are a few of the phases of in wildlife management, wildlife research that have received attention. Currently, the work on the tion, bird study, and wildlife recottontail is centered on a study of search. production in relationship to cover on the Story County area throughout the year.

#### **Disease Studies**

A service project provides diagnosis of wildlife diseases and parasites in specimens submitted by the Iowa State Conservation Commission employees or by the Unit field staff. Such diseases as the muskrat disease, rabies, lead poisoning and tularemia have been detected, and in some cases experimental control measures have been initiated.

edge of the fauna of the Hawkeye State. Cooperative efforts with the Home Economics Department have resulted in the dissemination of knowledge on the handling and care of freshly killed game and the proper preparation for the table of

#### Training Wildlife Men

In the field of training students in wildlife management 89 degrees have been granted by Iowa State College as follows: Bachelor of

Students enrolled for fundamental and specialized training in the zoology and entomology curriculum supplement their work with The cottontail, most hunted courses in botany, forestry, soils, geology, bacteriology, statistics, etc. Specialized courses in wildlife management in the Department of Zoology and Entomology at Iowa State College are game administration, wildlife conserva-

> As a general training program, a wildlife extension specialist participates in providing wildlife training for youth groups and in the development of wildlife management as part of a land use policy.

In retrospect the Iowa Cooperative Wildlife Research Unit has

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#### **Ring-Necked Pheasant**

The ring-necked pheasant project is divided into two phases. One phase is concerned with the winter behavior and spring dispersal of this bird from two state-owned areas, Birge and Grass Lakes, Emmet County, in an effort to gather information on the daily and seasonal movements and annual population turnover of the ringneck.

In the winter of 1948-49, one of our students marked 398 pheasants on these two drained lake sites and found that the average distance of spring dispersal was less than two miles with an extreme range of seven miles. Such information is essential in the evaluation and management of these areas for the ringneck.

of the present cover conditions and tempt to duplicate them through pheasant production with those of 1939-41 on the Winnebago Pheasant Research Area, where the Unit has been active since 1935. In the last decade the utilization of land for agricultural purposes on though the nesting population of the Winnebago tract has increased, blue-winged teal has remained resulting in the drainage of slough about the same, data gathered on areas, the decrease of idle lands, 186 blue-winged teal nests have inthe elimination of many fencerows dicated a higher rate of nesting and small fields, and the adoption losses. Another important aspect

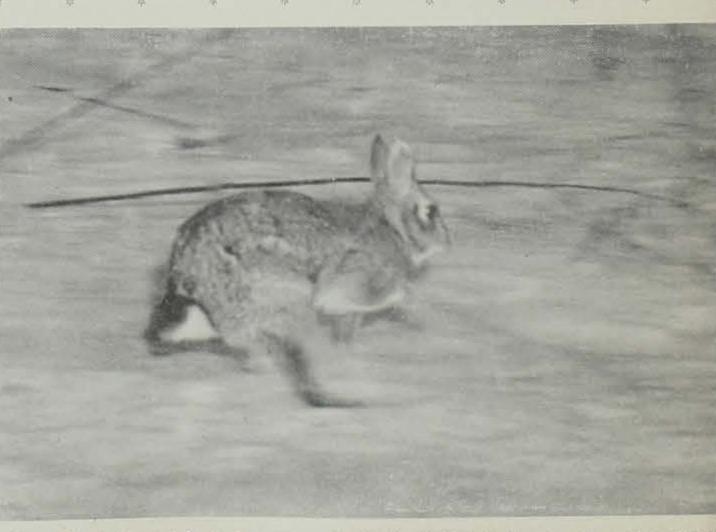
#### Waterfowl

Waterfowl studies have been conducted since 1932 in the Ruthven Area, especially on the bluewinged teal and redhead. In the spring and summer of 1949 statistical analyses were made of the nesting habits of the blue-winged teal to better understand their The other phase is a comparison nesting requirements and to atmanagement effort. Also, analyses of waterfowl production in 1949 are being compared with the results of similar studies conducted intermittently since 1932. Alof new farm cropping methods. of waterfowl management in Iowa

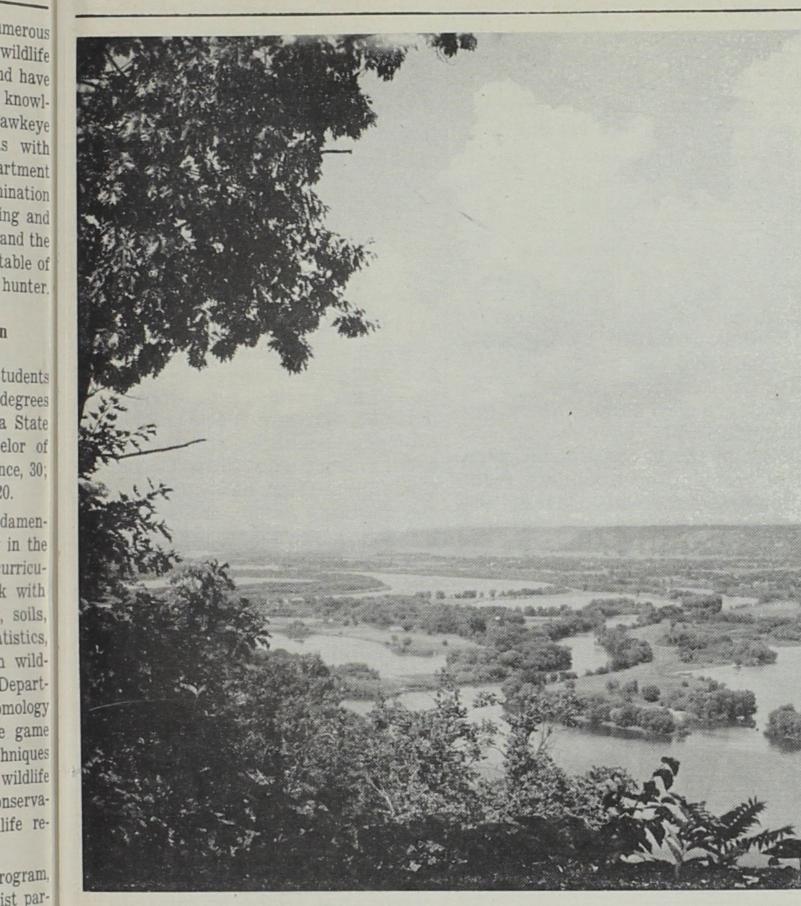
Other species of wildlife that have received attention are the coot, mourning dove, ruffed grouse, great-horned owl, red fox, striped and spotted skunks, mink, fox ing islands.

not only served to contribute to and better game management and the training of game biologists, but has also centralized the research effort of the agencies concerned with the wise use of one of our most valuable natural resources.

In the past 200 years, 70 forms of animals have become extinct, of which 11 species have disappeared from North America and neighbor-



The cottontail, most hunted game species in the United States, has been the subject of intensive research by the Iowa Cooperative Wildlife Research Unit.



Some of the most magnificent scenery in the entire state may be seen from the Mississippi overlooks in the new Yellow River Mound national monument.

#### Preservation . . .

(Continued from page 177) Yellow River north of Marquette, and include some of the roughest

structed to represent the animals lying on their right sides, and in most instances the heads are pointed downstream.

the graves are located in the head and in the heart region. Where skeletons are found in other parts of the mound, it is possible that the mound was made use of as a burial site by historic Indians who lived in the vicinity after the disappearance of the mound builders.

vandalized by souvenir seekers. However, these ancient graves, generally speaking, are not rich in artifacts. The human remains are always in advanced stages of disintegration and arrowheads, axes, pipes and the like are not abundant. The most important relics found, and rather commonly found, are the remains of "burial pottery." These, however, for the most part, also are fragments.

Although it is primarily to preserve and make accessible to the public the prehistoric mounds, the Yellow River Mound Area is without peer in the Middle West from a scenic standpoint. The valley of the Wisconsin River, where in May, 1673, white man first saw Iowa, may be seen from any one of the new park's numerous overlooks. The broad historic blufflined valley of the Mississippi may be seen upstream and downstream for many miles, with its constant and romantic river traffic slowly changing the panorama of the nine-foot river channel. The historic town of Prairie du Chien, Wisconsin, is easily discernible from the park, as well as the milelong bridge into Marquette.

Through part of the park area their original condition. the old military road from Fort

#### HOW TRUE, HOW TRUE

We would live longer if we emulated our canine companions: "A burst of energy, a deep drink of water, and a nap . . . and repeat." In many circles there is a perversion of this. Instead of a deep drink of water it is a deep drink . . .. and repeat. And in emulating Some of the mounds have been the canine it is only in abode—we live in the doghouse. — Bellevue Leader.



Although Indian artifacts are not abundant in the mounds, in those that have been opened burial pottery, axes and arrowpoints have been discovered. This flint fishhook is one of the most unique specimens.

for the development of the national monument, and in all probability the mounds on the area which have been vandalized will be returned to

Regardless of what immediate

Page 183

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terrain in Iowa's "Little Switzerland" district. The massive limestone bluffs are heavily timbered at some points and are barren rock at others. The whole east edge of the park towers like an amphitheatre before which the pageant of the Mississippi parades 400 feet below.

It is high above the Father of Waters on the top of Iowa's "mountains" that the mound builders laboriously constructed their earth mounds, sometimes in groups, sometimes in series, and rarely singly.

Most of the mounds in the new area are of three distinct types. The circular mounds appear much like greatly enlarged gopher hills and are as much as nine feet above the general surface and are sometimes more than 35 feet in diameter. The linear mounds are some six feet high, 20 feet wide, and some are longer than 200 feet.

It is the "effigy" mounds, however, that are the greatest wonder to archaeologists and laymen alike. These mounds, some exceeding 140 feet in length, 60 feet in width, and four to six feet in height, are designed to represent animals and birds. The principal patterns are those of giant bears and flying birds. For some reason the effigies were nearly always con-

Although there is little known of the mound builders, it is believed that they are ancestors of historic Indians, and it also believed that at least two cultures are represented by the mounds. Some competent archaeologists believe the oldest mounds were built before Christ, and that possibly some were built after the discovery of America.

The soil from which the mounds were constructed has been taken from the immediate vicinity, and in some mounds evidences indicate that the earth was carried in animal skins and placed in position. Some of the mounds in the Yellow River Area have been excavated, and it is believed that all were burial places.

Two types of burials have been discovered, one in which the entire body or bodies of the deceased (multiple burials are most common) were placed on the original surface or a few inches below and then the earth heaped over them. In other instances (the so-called bundle burials) it is believed that the bones were collected after disintegration of the flesh and transported to the mound site for burial. It is interesting to note that in the "effigy" mounds the human remains are almost invariably found in the same portion of the mound

—for instance, in the bear effigies

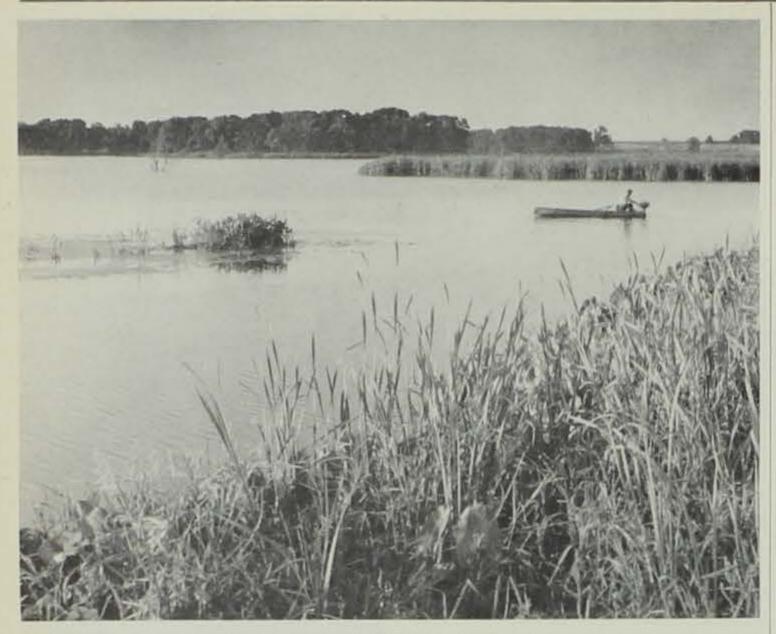
Crawford at Prairie du Chien to Fort Atkinson in Winneshiek County, Iowa, is deeply rutted and especially interesting where it skirts a series of the "effigy" mounds. It is possible in the fupark roads to be built will follow built adjacent to this historic travel lane.

Tentative plans have been made turies to come.

developments are made in the Yellow River mound area, it will be a monument to the wisdom and forethought of those hundreds of conservationists whose long-time drive finally resulted in public ownerture development that one of the ship; and with the monument held in trust for the public, it does not the line of the military road, or be take a great deal of imagination to see these 2,000-year-old mounds existing undisturbed for many cen-



The burials of the mound builders were surface or slightly subsurface, with dirt mounded over the graves. More modern Indians made subsurface burials, often with rock or heavy logs racked up over the grave site.



Rice Lake is an example of Pittman-Robertson activity. A failure as an agricultural drainage, it was restored and has become one of the most popular duck shooting marshes in the state. Jim Sherman Photo.

#### Pittman-Robertson . . .

(Continued from page 177) called the Federal Aid Section and is headed by the Superintendent of Federal Aid. In some states this position is called Pittman-Robertson Coordinator.

The Superintendent of the Federal Aid Section is responsible for the direction and supervision of the Pittman-Robertson program. He is directly charged with the responsibility of proper use of the funds received from the excise tax. Before and during the war annual allocations were relatively small. A shortage of personnel and construction materials during the war curtailed development activities, and most of the funds were used for land acquisition only. Much of the needed development work on these areas is just now getting underway.

are marsh for waterfowl management.

In Iowa it is felt that acquisition and development of marsh units is the best way to help waterfowl. Acquisition of upland areas for quail and pheasants in this state is, for the most part, far too expensive for the results obtained.

Ownership of land is the surest way of controlling it for development for wildlife, but it is the costly way. This fact is always considered when weighing the problems of what and what not to buy. However, additional areas are being considered for acquisition.

ble. No new projects are started a mid-winter article in the "Conwithout these studies. All pertinent factors are considered to make sure that each new area will produce the desired results.

The land acquisition phase of Pittman-Robertson will be continued as it fits into the over-all plan

#### Habitat Development

P. R. money can be used for development of wildlife habitat on land already owned by the state, on land that is purchased with Pittman-Robertson funds, or on privately owned land. Since providing suitable environment for wildlife is the surest known method of carrying on a wildlife restoration program, a great deal of emphasis is being put on this phase of our activities.

On all of the 9,000 acres acquired by the state, plans are being made to provide the most habitat possible. Development has started on 12 of the 20 areas.

In almost all cases basic development consists of fencing against uncontrolled grazing, building service and access roads, installing water control structures where lakes or marshes exist, planting for food and cover, and erecting proper identification signs. After these preliminary tasks are completed, a three- or five-year development and maintenance program is laid out that will fit the needs of the particular area.

Habitat on privately owned land is undoubtedly the key to more wildlife in Iowa. To raise more wildlife we must provide the environment on the farms where the Dingell Bill by President Truman, game is to be produced. The farm according to the Wildlife Managegame habitat project of the P. R. When buying a new unit, de- Section is designed to get shrubs, tailed investigations are made by vines and nesting cover on private-

servationist."

#### Maintenance

Maintenance need only be mentioned here. Funds can be used to maintain developments after they have been completed. At the present time none of our areas are completely developed, but money will be available from P. R. to care for the areas once they are put into final shape.

#### Surveys and Investigations

When regulations were drawn up governing the use of Pittman-Robertson money, provisions were made so that any special biological problems could be studied if the need arose. The Iowa Conservation Commission has its own biology section, which makes population inventories and other needed fish and wildlife studies. Extensive use of Pittman-Robertson money for this purpose is not anticipated.

Habitat development is not as spectacular or obvious as game bird stocking, predator control, or prosecuting the violators. It is, however, the best known method by which increased game populations can be assured. Increased game populations is the objective of the P. R. program. Habitat development is the vehicle by which we expect to gain this end.

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#### TRUMAN VETOES DINGELL BILL

A long, heartbreaking battle by conservationists to give state sport tell u fisheries the same benefits as those plant realized by game under the habits Pittman-Robertson Act received a high severe setback with the veto of the

Between July 1, 1939, and July 1. 1949. Iowa's federal aid funds were used as follows: Coordination 4 per cent, land acquisition 61 per cent, development 33 per cent, surveys and investigations 2 per cent.

Annual federal allocations the past three years have been about \$225,000. By adding the state's annual share, some \$75,000, a sizable budget for restoration of wildlife habitat is available, and efforts are being made to carry out a wellrounded program of land acquisition and development for the benefit of all species of game with these funds.

#### Land Acquisition

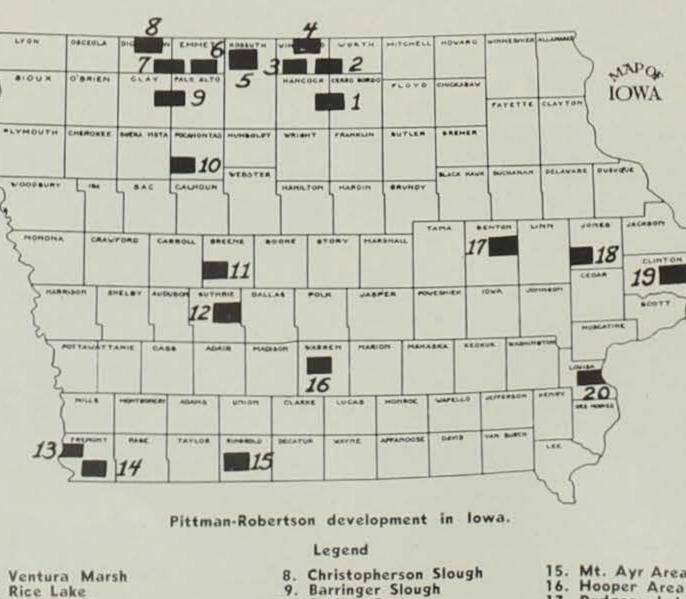
In the process of spending some \$413,000 over a nine-year period for land acquisition, the state has purchased a little over 9,000 acres of wildlife areas. This acreage, primarily submarginal and nonagricultural land, is spread over 20 areas. Approximately 1,300 acres are upland game areas; 7,700

engineers and biologists to make ly owned farms. This program is sure the project is sound and feasi- new and will be explained fully in

ment Institute.

The bill, which passed both Houses of Congress without major opposition, had the support of practically all organized sportsmen in and the United States. Its passage was recommended by state conservation departments throughout the nation and by all national conservation agencies and organizations. Although when a similar bill was first introduced in the 80th Congress, some opposition was expressed by members of the Fishing Tackle Manufacturers' Association, that organization wholeheartedly supported the Dingell Bill during this session of Congress. The only opposition has come from the the Treasury Department, which is reluctant to have the excise tax on fishing tackle earmarked for the benefit of those on whom the tax is levied.

In his veto message, the President branded the Pittman-Robertson Federal Aid in Wildlife Restoration Act as "an undesirable precedent." The veto itself will be a bitter pill for sportsmen to swallow; this backhanded slap at one of the most progressive and valuable pieces of wildlife legislation on the federal statute books is a double dose of the same medicine. -Outdoor News Bulletin.



irsh	8.	Christopherson
		Barringer Sloug
h		Sunken Grove
(e		Dunbar Slough
(shoreline)		Lakin Slough
Slough		Forney Lake
ake (Shoreline)		Nishnabotna

Myre Slough

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4. Harmon Lak

5. Goose Lake

7. Four Mile L

15. Mt. Ayr Area Hooper Area 17. Dudgeon Lake Muskrat Slough 18 Goose Lake 19. 20. Klum Lake