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May, 1961

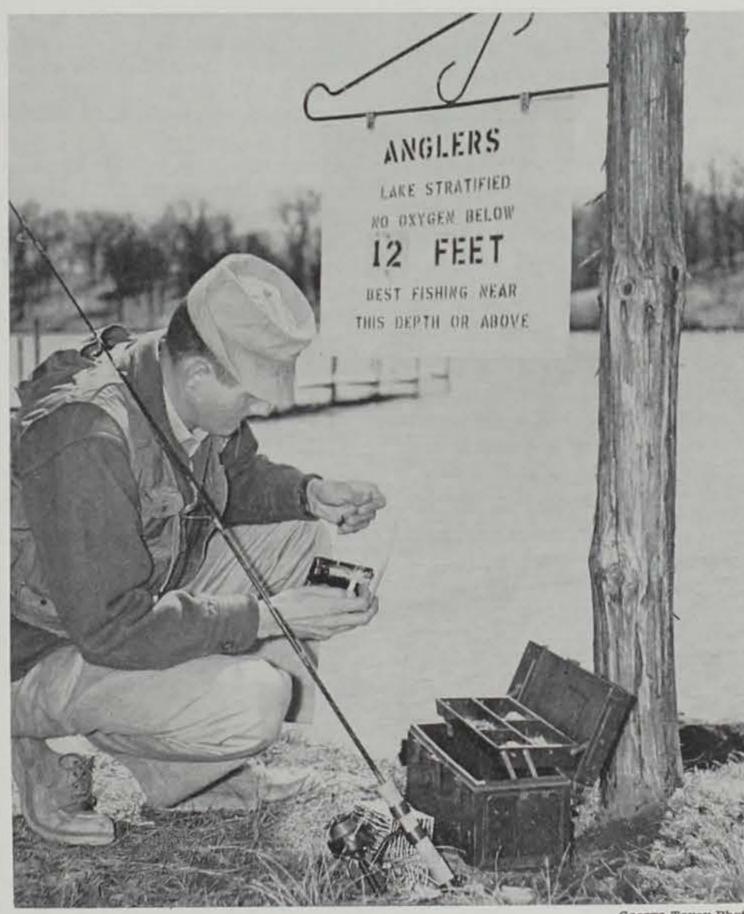
Number 5

GNS OF THE TIMES AND THERMOCLINES

M CREEL TO MEAL **Roger Fliger**

n the time a fish is landed lit reaches the platter is a ritical period. A real fisherwould rather fish than eat, I hen it comes to eating he'll is own special way of cooke catch. Learn a few simple to of game care and you will 11 paid with better eating. just as easy to do the job as it is to spoil it.

be p fish alive as long as pos-A boat with live box is the te, but that type of river a not as popular as it was in past, A rope stringer works il inless a snapper decides he your string of fish more than I. o. A burlap sack is fine to over the gun wales when is fast and furious. The alds fish securely and keeps alive. In the case of trout, kill the inf uickly by inserting your in the trout's mouth and pressure upward. The vertias will snap, With one long it iom vent to gills the entrails asily removed. Wipe the its fish dry and place in a creel vill allow air to circulate. ame fish have to be transa great distance remove the s, put the fish in plastic and cool with ice. Dry ice terred when available. Fish g around in a refrigerated alf full of melted ice will soft and become water-



Jim Mayhew **Fisheries** Biologist

Beginning in May of this year the depth at which most fish can be found will be predicted for anglers at Red Haw Lake near Chariton. The predictions are not based on so-called "crystal ball biologizing" or "Ouija Board" forecasting, but rather on the results of a three year study. The purpose of this service is to provide reasonably accurate information regarding depth distribution of fish to enable sport fishermen to catch more fish.

For several years it has been known that most of the artificial lakes in southern Iowa were thermally and chemically stratified during the summer. Just what the effect of this phenomenon was on the depth distribution of fish, and more important, how it directly or indirectly influenced angling success was unknown. In 1958, a study was initiated to determine these factors. First, a thorough study of the physical and chemical characteristics of stratification was conducted. Several important features were soon discovered. Some of these were: (1) stratification started gradually in April, increased in intensity through May and June, stabilized in July and August, and finally disappeared in September; (2) temperature changes of 3° F. per foot of increased depth are common in the thermocline, and on several occasions temperature drops of more than 6° F. per foot were recorded; and (3) the lake was devoid of oxygen below a depth of eight feet for more than two months. This thermal phenomenon exerts great controlling influence on the harvest success of many fishermen. It is not uncommon to find as many as 50 per cent of the anglers fishing in the hypolimnion (too deep) completely unaware that this area is oxygenless and almost devoid of fish life. Indirectly, stratification is so profound in Red Haw that its influence forms the sub-structure upon which the substituted. Dark bread and a cold whole biological framework rests. The depth distribution of large-(Continued on page 131)

n fish in plastic bags, quick and packed in an insulated can be transported for days t spoiling.

should be eaten freshg or aging doesn't add to over. The exception to this trout, if fried sooner than ur or two after catching, 'eak up and curl in the fryan. Also pickling, smoking eserving requires time, but again, eat them fresh for um flavor.

e of the special fish dishes light add to your regular p 3 are as follows:

George Tovey Photo.

At least one question-how deep to fish-has been settled for the fishermen at Red Haw State Park. To tell what they're biting on will take a little more research.

Baked Trout

Here is a trout feed that is deserving of a trophy fish. When you catch that one big trout of a lifetime or of the season clean the trout by removing entrails and washing out. Never scale or skin a trout. Stuff the cavity with regular sage dressing. If you like sauerkraut, mix one part kraut to two parts dressing. Tie the fish with a half-dozen loops of string and wrap in aluminum foil. Bake for an hour and a half and give it a good soaking in lemon butter (see last part of article) when you take it out of the foil.

Sheepshead Chowder

River people know fish and fish

cookery. The Upper Mississippi produces good numbers of freshwater drum or "sheepshead" and the people take every advantage of this fish. Skin and fillet meat off of a large sheepshead. Cut the boneless fillets into one inch cubes. Simmer potatoes, carrots, onions, celery, tomatoes and anything else handy around the kitchen until almost done (solid - not falling apart). Add milk and cubed sheepshead and simmer again until fish cubes appear dry and flaky. Don't over-heat or you'll scald the milk. Other species of fish can be bean salad with slivers of raw (Continued on page 131)

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IOWA CONSERVATIONIST

Iowa Conservationist

Published Monthly by the STATE CONSERVATION COMMISSION East 7th and Court, Des Moines, Iowa (No Rights Reserved) NORMAN A. ERBE, Governor GLEN G. POWERS, Director MALCOLM K. JOHNSON, Editor STAN WIDNEY, Associate Editor MEMBERS OF THE COMMISSION GEORGE V. JECK, Chairman.....Spirit Lake CLYDE M. FRUDDEN, Vice Chairman

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CIRCULATION THIS ISSUE. Two Years \$1.00

Entered as second class matter at the post office in Des Moines, Iowa, September 22, 1947, under the Act of March 24, 1912. Subscriptions received at Iowa Conservation Commission, East Seventh Street and Court Avenue, Des Moines 8, Iowa Send cash, check or money order.

HISTORICALLY SPEAKING



By Stan Widney

LUCAS COUNTY MAN ASKS VERIFICATION OF FISH TALE

The year of 1949 is scarcely histhe Chariton Herald-Patriot cer-

COMMISSION MEETING Held in Des Moines April 5, 1961

cars of Fish and Game Officers to Dakota, May 24 and 25.

Authorization was given for five use of the area. staff members to attend the AACI meeting at Sylvan Lake in South Dakota.

Authorization was also given for two people to attend the Jackson Hole Outdoor Writers' meeting.

The Commission recommended to the Executive Council that a quit claim deed be given on submerged lands near Fort Madison to the California Chemical Company.

Forestry

The Commission respectfully declined a gift of five acres of land adjacent to the Stephens State

around the lake for 231/2 hours, it wouldn't be anything I'd want to bring out of the water."

The story of how Dale and his brother Walter launched their 12foot metal boat about 8:30 a. m. on a Saturday and then stayed there until almost the same hour the next morning, was told in the March, 1957 edition of Outdoor Life—the sports magazine.

The writer called the battle a "continental record" and there's been no disputing the claim since.

Dale, in estimating the size of guess he offered by comparing the of boat launching. The appeal appeared in the monster to the side of the boat the few times it buoyed surface-wise). A catfish that long would weigh somewhere between three and four "And," Dale is quick to say, "everybody knows they just don't A second guess at the fish size In a letter to the Chariton news- indicated it might have weighed The reservoir doesn't help the weighing up to 81 pounds. That Natives of the community need includes a couple of 50 pounders. Although Dale's fish wasn't tow the boat around the 78-acre who gathered around the lake to watch the 23½ hour circus are boat launching. It's easy to understand why still giving the benefit of the If sailor Risbeck needs any ad-

Forest in Lucas County due to Board received approval for costs of acquiring title.

The Commission recommended to the Executive Council a transfer Authorization was given for two of title of Wood Thrush Park Preserve in Jefferson County for use attend the Midwest Law Enforce- as a Fairfield Community School ment Officers' meeting at South forest area subject to grantor's request concerning conservation

Parks

Superintendent of Parks gave a report on boat dock rentals in state parks.

Approval of a development plan for Swan Lake State Park in Carroll County was given by the Commission.

A report was given on fuel vending machines in state parks.

Approval was given for a road right-of-way construction permit bordering on Margo Frankel Woods State Park in Polk County. Also a construction permit for widening of a county road in the same area.

A discussion was held concerning acquisition of land at Lizard Lake.

Don Brown of Cedar Rapids gave a report on a commercial housing development plan near Lake Macbride in Johnson County.

Waters

Permission was granted for placing of rock piles rather than a rock jetty in Bussey Lake in Clayton County.

Kemmerer Marina at Clear Lake tory but the following article from the fish, set some kind of a fisher- was given approval for three foot man's record himself—he said it deep dredging of an area 50 x 150 tainly deserves a place in the was probably eight feet long (a feet at Clear Lake for the purpose

quisition of 59 acres at a to cost of \$3,600 to be used marsh area and park area.

Calhoun County Conservat Board received approval for acc sition of a strip of land two four hundred feet wide extend 3,000 feet along the lakeshore North Twin Lake. Cost of the a is \$700 per acre for 20 acres. A will be developed as a park access to the lake.

Hardin County Conservat Board received approval for quisition of ten acres of land all the Iowa River at a cost of per acre to be used as an addition to the shoreline acquisition proj between Iowa Falls and Eldora

Hardin County Conserval Board received approval for quisition of ten acres at \$50 acre to be used as fishing acc on the Iowa River.

Cherokee County Conserval Instan Board received approval for act 1 parts sition of approximately 24 at JLT at an approximate cost of \$1 on the Little Sioux River in ! northeast part of the county. will be used for boating account fishing access and picnicking Bremer County Conserval Board received approval for development plan for Alcock F which consists of ten acres on

Wapsipinicon River near Fu ericksburg to be used for picht ing, camping and playground.

Marion County Conserval Board received approval for development plan for Veter Park consisting of 120 acres 10 e used for group camping, overnight family camping and other P uses.

archives.

March 16, 1961 issue of the paper:

That "truth is stranger than fiction" is going to be proved once again-this time by a Naval medic hundred pounds. and Lucas countyan who apparently needs local support to substantiate a "whopper" he had told come that big in fresh water." his Navy buddies.

papers this week, Arlan Lee Ris- 125 pounds but even this estimate beck, son of the Milton Risbecks has to be told in select company. of Route 2, Chariton, writes in regard to the fish story to end all disclaimers, however. Within the fish stories that occurred 12 years past five years fishermen have ago on the old city reservoir east pulled catfish from the water of Chariton.

no reminder. We're talking about (There are pictures of these latter the time high school janitor Bob ones to confirm their size and Dale hooked THE big one. And, ferocity.) sat helplessly in the boat for 231/2 hours while the fish proceeded to landed, some 800 to 1,000 persons lake.

Arlan needs verification for the doubt as to the size of the fish. story. So shocked was Dale at the experience that he hasn't been ditional expressions of how big the day in 1949.

"T've even quit telling the body believes it."

Dale still contends he's privately ing into a coal chute." land the "fish."

"If it was big enough to tow me talk about it.

Dale's.

"Once I could look straight

happen; Dale is still around to will be used as a wildlife area.

Commissioner George Myers presented a plaque to retiring fish culturist, Earl Hubbard, who has managed the Backbone Trout Hatchery for the past 19 years.

Clark and West of Clear Lake were given permission to dredge an area for ingress and egress of boats to Venetian Village on Clear Lake.

County Conservation Activities

Hamilton County Conservation Board was given permission to use several small buildings at Little Wall Lake on the condition that these buildings be removed when they were through using them.

Board was given approval for acquisition of 8.75 acres on the Little Sioux River in the northeast part of the county at a cost of \$450 for use for picnicking, fishing and ment by Benton County of

Cherokee County Conservation Board was also given approval for acquisition of 8.75 acres north of Washta at a cost of \$250 to be back to the lake since that July fish was, he might try one of used for picnicking, fishing access a report on a request for a and boat launching.

Delaware County Conservation city of Creston for Summit D story," Dale wryly admits. "No- down his gullet, through about Board was given approval for acfive feet of water. It was like look- quisition of 22 acres located three miles northwest of Manchester at authorized to spend \$100 for Inhappy over the fact that he didn't All we can add is that it DID a total cost of \$2,600. The area Winnebago County Conservation banding project.

Page County Conserval In for Board received approval for a try in velopment plan for 65 acre an which includes 25 acres for p usage and the balance will maintained as a forest area cated near Clarinda.

Story County Conservat Board received approval for a velopment plan for the Zean Pond area which included improv ment of existing facilities.

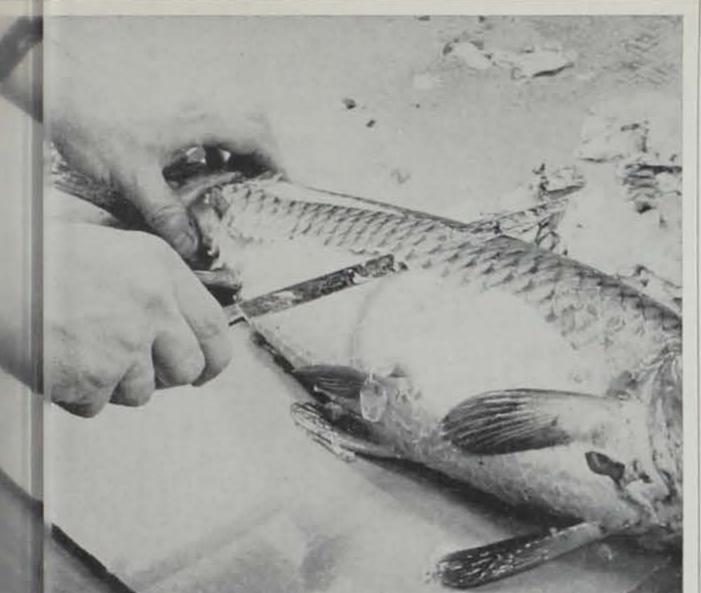
Linn County Conservation Bol received approval for a devel ment plan for Matsell Bridge a which will be used for fish Cherokee County Conservation boat launching and parking.

The Commission authorized " Director to sign an agreement a recommend it to the Execution Council for approval for mana-Minne Estema area. This area 60 acres lies along the Cee River.

Fish and Game

The Fish and Game Chief § management agreement by No action was taken.

The Chief of Fish and Game * an labor in the James Bay an to assist in a Canadian goo



ecting ca is about the fastest way to remove the scales and make them ready for the pan, art at the tail and saw with the knife just between the layers of skin.

MEAL-

C nued from page 129) ross pool No. 9.

Catfish Chops

Cuttuse re found in all of Iowa's arcle the fleshy area and cut it

the usual method of scaling.) Make tion in t make a combination vertical cuts every 1/8 inch across ut word make a river man the fish's body. Remember to make the bas ward hand springs all cuts vertically down through the deep. small forked bones until you hit the main ribs and backbone.

George Toyes

Roll scored carp in your favorite alor wars. In the early summer batter and deep fat fry. The hot and can sh spawn they are in fat will cook and soften the small decellent ondition. The chops are forked bones. Give the first carp we later owls under the eyes on you catch this spring this treatnawning un. With a sharp knife opinion of which fish tastes best.

FISH-O-METER-

(Continued from page 129) mouth bass, bluegill, crappie, bullhead, and channel catfish was studied by using a depth marked experimental gill net. This net was 220 feet long and 24 feet deep. At each netting station the net extended well into the oxygenless water, and usually was within four feet of the bottom.

As expected most fish were found above the thermocline. Eighty-seven per cent of the fish were caught above the depth where oxygen contents would not support life. There was a wide variation in the frequency of different species descending into the hypolimnion. Channel catfish and largemouth bass were the least frequent visitors to this level, with 5 and 7.5 per cent of these species captured in the region. Over 30 per cent of the crappies were found in oxygenless waters. There was also a general trend of fish to follow narrow areas in the upper limits ing is slicing scales off rather than of the thermocline and lower limits of the epilimnion (top level). Eighty-five per cent of the fish were found from four to ten feet

At first, the presence of the vast layer of oxygenless water was thought to form a chemical barrier by preventing fish from living B.A., M.S. and Ph.D. degrees at any length of time in deeper waters. As the study progressed it his formal education in 1929. became apparent that other facwe call vers, swollen during the ment and you may change your tors were also responsible for the void of fish below the thermocline. An added touch to any mess of One of these is undoubtedly a way are cheek bone. The chops fish is a bath of lemon butter. Drop thermal barrier formed by the onely memble scallops and are a quarter-pound of butter or oleo extreme changes of temperatures in the upper limits of the thermocline. The basal metabolism, or the rate at which the body operates, in a fish is controlled entirely by the environmental temperature. Extreme changes in temperature alter this metabolic rate making the fish very uncomfortable until tional special recognition as an conditioning is complete. Extreme honorary member of the Wildlife changes within the thermocline form a temperature barrier in special conservation award from preventing the descent of fish into deeper water. to direct anglers to the depths at which each individual species of fish is located. Instead, the purpose many papers and notes that were of predicting the depth distribution of fish is to locate the thermocline magazines and journals. Many of and the depth at which oxygen is not sufficient to support life. One of Iowa's favorite game animals. important observation was the frequency at which bottom feeding the angler must take advantage of species, such as channel catfish and bullheads, were caught at the point where the thermocline and bottom intersect. This should be important to the anglers in increasing his catch of these fishes. The location of the thermocline will be posted weekly on specially designed directional signs at all boat access to Red Haw Lake.



Dr. George O. Hendrickson 1890-1961

44 YEARS A BIOLOGIST-CONSERVATIONIST

Conservationists all over the nation were saddened to learn of the death of Dr. George O. Hendrickson this spring. Like many prominent men in the field; Ira Gabrielson, Aldo Leopold, William Hornaday, J. "Ding" Darling, and Alexander Ruthven, he was born in Iowa.

Dr. Hendrickson attended public schools at Buffalo Center. From there he continued on to complete Iowa State University, finishing

In 1925 he accepted an Instructor's position at ISC.

Honor society recognition has been extended to him by Sigma Xi, Phi Kappa Phi, and Gamma Sigma Delta.

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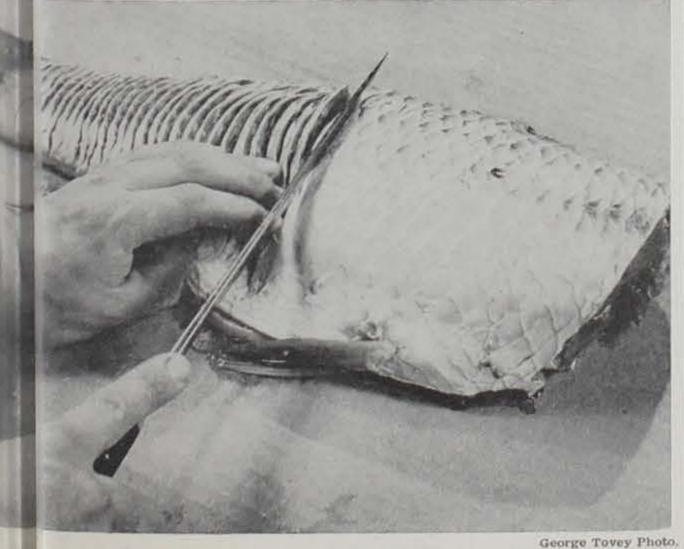
the me but it is well worth it. all in f r or corn meal and deep iny il golden brown.

Scored Carp

Missouri comes a recion ce that turns the buglemuch ba ; into a mouth watering meless eal. Fleece off the scales um a 'o to four pound carp In the Id, entrails, etc. (Fleec- efits in the end.

into a small frying pan. Melt and the a le of fishing to get enough boil. Just when it starts turning brown, squeeze a lemon or two into it. Pour the mixture over sizzling hot trout and you'll have your friends raving for more.

Remember, keep your fish dry and cool and cook them as soon as possible after they're caught. A fine catch, whether catfish, carp or trout, deserves the best care ith a surp knife after remov- possible. You're the one that ben-



forked s, Slice down to the ribs and backbone with cuts one-eighth inch apart.

depth distribution of fish is based wholly on the belief that the tant, "Mr. Fisherman," this servdepth at which most fish are lo- ice is for you. Use it and the cated will produce more fish to results might be pleasantly surthe sport fisherman. Of course, prising.

Over the years the name of Dr. Hendrickson has turned up on various committees of the Wildlife Society, including the Professional Standard Committee of 1945, '47 and '53. He held addi-Society and was the recipient of a the Izaak Walton League of Iowa.

During his tenure as college It would be virtually impossible professor he exerted much effort on behalf of his 57 graduate students in wildlife and authored published in local and national these concerned the cottontail, one

this service and try the method. The value of these predictions are difficult to measure. No check of their effectiveness has been made. The three seasons of netting at Red Haw indicate that the predictions are sound and will increase angler success. Isolated instances from friends of the author trying this method show an increase of This study of predicting the about 100 per cent in the catch of channel catfish. More impor-

Dr. Hendrickson on the job.

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IOWA CONSERVATIONIST

BOATING EAST AND WEST



Boating down the "wide Missouri" is an appealing past-time for western lowans. Revetments on the far shore stabilize the bank and keep the channel in bounds.

BOAT ACCESS

rivers, the Mississippi and Missouri, lure increasing numbers of water recreationers annually.

A busy day at the Decatur Boat Club marina across the Missouri from Onawa. velopment of facilities there has been slower than on the Mississippi, but is increase

Iowa's two great boundary the game, to find fast access. tours on foot to historic sites With the advent of reasonably sorbs many leisure bound lows priced boats and outboard motors The 75 boat ramps readily that can speedily negotiate long cessible on the eastern shore stretches of water, a new type of the state make river hops in di afternoon drive has evolved. At ferent locations every week times large groups of motor boat- thing of ease. And then there is the wall ers take off for a day or a whole borne angler. He makes more week end of water touring. A jaunt from Sioux City to Council than all others combined of Bluffs for instance, has opened the riverside ramps. On holidays on week-ends especially, to spend eyes of many "western slope" boat number of fishing boats got South pointed because they wasted a lot miles or so of the Missouri. With wales, but the endless backwall of time and burned gallons of an occasional stop to stretch the and sloughs swallow them up at gasoline looking for a place to legs and stock up on food, water leave room for more. Perhaps float their boat. These two pages or fuel, a day on the river goes two major border rivers con should help the river boaters, in too fast. Locking through the sev- most appropriately be called of particular those who are new at eral Mississippi dams with side last frontier-for recreation.

Clinton Scott down the ramps would seem to # Scott the rivers with craft rubbing gu Scott Scott Scott Scott Scott, Scott Scott.

Boat

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Gas



Several of Iowa's population centers are located within short travel-time of the Mighty Mo and the Father of Waters. Droves of fishermen, water skiers and vagabond boaters come to the rivers, as much time on the water as owners to the tremendous recreapossible. Some go home disap- tional possibilities available on 125

Jim Sherman Photo

	County	Name	Vicinity	Ramp	Oil F
1	Woodbury		ClubSioux City	C. or C.	Yes
2			Dock Sioux City		No
3			Onawa		No
4			Onawa		No
5			Decatur (Neb.)		Yes
6					Yes
7			Blair (Neb.)		Yes
8			Omaha (Neb.)		Yes
9					No
10	and the second state of th		Council Bluffs		Yes
11	Douglas (Neb.)Riverside Marina		C. or C.	No
12	Douglas (Neb.) Midwest Wonderland	Omaha (Neb.)	C. or C.	Yes
13	Sarpy (Neb.)	Bellevue Boat Club	Bellevue (Neb.)	C. or C.	No
14	Sarpy (Neb.)	South Omaha Marina	Bellevue (Neb.)	C. or C.	Yes
15	Fremont	Bartlett Boat Club	Bartlett	C. or C.	No
16	Cass (Neb.)	Nebraska City Boat	ClubNebraska City (Ne	eb.)C. or C.	Yes
Pul	blic Boat Ramn	s are state or municipally ov	med No charge for use		

Public Boat Ramps are state or municipally owned. No charge for use. C. or C. Boat Ramps are commercial or club owned. Most charge 50c to \$1.00 for use, some are fre

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No

GUIDE TO MISSISSIPPI RIVER BOATING

	-	Name	Vicinity
1		Minnesota Slough	
N a		Lansing Marina	
12		Lansing City Ramp	
		State Fish Hatchery	
10		Babe's Boat Landing	
7		River View Motel	and the second se
-		Taylor's Resort	
- 50		Wine's Resort	
1.09	Allamakee	Paint Creek Access	Waukon Jct.
		Joe's Landing	
		Marquette Boat Landing	
		McGregor Public Access No. 1	
		McGregor Public Access No. 2	and a second
	and the second second second	Sny Magill Access	
	and the second	Guttenberg Public Accesses (two)	
		Honey's Boat Dock	
		Kenny's Boat Landing & Fish Mkt	
		Hansel's Camp	
21	Clayton	Hefel's Boat Landing	N. Buena Vista
	the second se	Waupeton Access	and a second
	and the second	Mud Lake Access	and the second se
		Dubuque Marina	
		Old City Harbor	
	and the second sec	Massey Area	
		I.W.L.A. North Landing	
		Bellevue Boat Ramp	
		Schnee's Landing	
		Michael's Landing	
3.5	Jackson	Green Island Public Hunting Area	Green Island
		Esmay Slough Landing (I.W.L.A.)	
		City Boat Ramp	
		Sabula City Park	
		Bulger's Hollow	
		Lyons Bridge Access	
		Anchorage Boat Dock	
		Hanson Boat Dock	
		8th Avenue Ramp	
12	Clinton	6th Avenue Ramp	Camanche
		Beuse Boat Club	
		Davenport Izaak Walton	
		Princeton Access	
175	Scott	Al's Dock	Princeton
48	Scott.	Green Gables	LeClaire
45	Scott	State Conservation Access	LeClaire
		Bettendorf Boat Dock	
51	Scott	Quad City Marine	Davenport
0.0	Scott	Davenport Boat Club	Davenport
1000	Scott	Harbor Ranch	Davenport
5	Scott	Credit Island	Davenport
56	Scott	Inland Harbor City of Buffalo Landing	Buffalo
57	Muscatine	Public Use Facility	Fairport
58	Muscatine	Muscatine Levee Landing	Muscatine
98	Louisa	Public Use Facility	Muscatine
60	Louisa	Port Louisa Access	Wapello
61	Louisa	Toolesboro Access	Toolesboro
89	Louisa	Public Use Facility	Oakville
60	Des Moines.	Jacoby's Landing	Burlington
65	Des Moines	Tama Beach Access	Burlington
66	Des Moines	Hawkeye Boat Harbor	Burlington
67	Des Moines.	Yetter's Marina	Burlington
68	Des Moines.	Municipal Boat Landing	Burlington
08	Des Moines.	Sportman Boat House	Burlington
10	Des Moines.	Cascade Boat Landing	Burlington
75	Des Moines.	Sourwine Landing	Burlington
75	Lee	.Ft. Madison Municipal Boat Landing	Fort Madison
74	Lee.	Sanford Boat Harbor	Montroso
7	Lee.	Howard's Boat Dock	Keokuk
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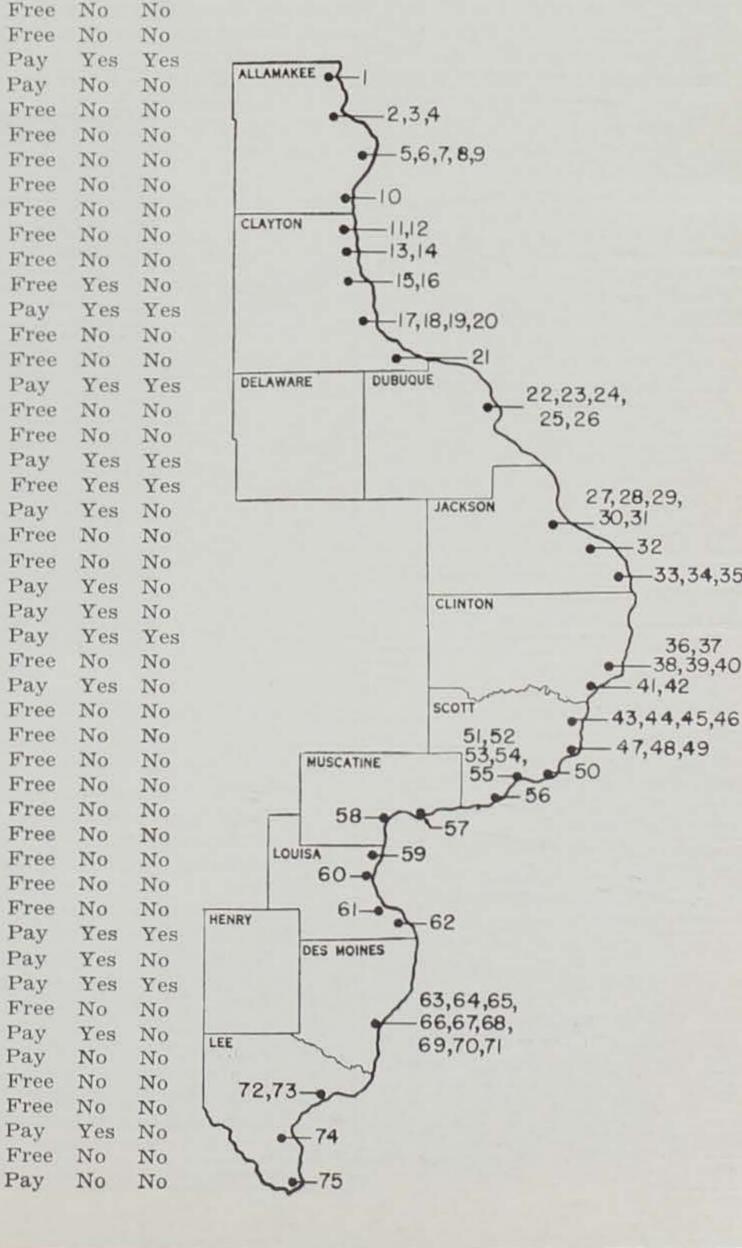
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Free	No	No				
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Pay	Yes	Yes				- The same
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Free	No	No			-	
Free	No	No			Carolan -	
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Pay	Yes	Yes				Jim Sher
			The more service	and mainte along	- Abe Adlantas	Sant and America

The many access points along the Mississippi cut travel time to the favored fishing waters to a minimum. A good choice for walleyes is below this immense roller dam at Lynxville.

> BOAT ACCESS SITES ON THE MISSISSIPPI



-32

-33,34,35

36,37 —38,39,40

-41,42

47,48,49

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A LETTER OF MERIT

Part of a note to Director Powers from a Marshalltown grandmother who "just had to say these things."

... Another subject that I'd like to bring up at this time while writing you, is our need for wooded sections directly outlying our communities, where our youth can go on hikes, Saturdays and during the summer vacation days, to explore nature on their own. Lucky is the boy or girl who has access to a wooded section of wild nature close to his community where he can go and observe. They need this experience as youngsters to explore woods, to roam about and collect treasures-to observe the different wildflowers and also see we cannot fully restore either them growing and flourishing in their own natural setting. Thereby a child learns about the different type soils in which a plant either flourishes or dies, seeking their own answer, directly from observation.

natural habitat. A child's first contact with wildlife is often a very exciting experience. It makes a child suddenly aware of the fascinating world around him, completely independent of man. Each species working out its own individual survival oblivious of human existence. Unlike facts it cannot be taught from books, but must arise from childhood experiences which stimulate a spirit of inquiry and gradually give a youngster confidence in his own ability to observe the phenomena of nature accurately and to reason from facts so obtained. One of the highlights of my youth in early spring was the indescribable thrill we received hiking off to some woods on the edge of Marshalltown known as "Sloppy's Pasture," to explore and gather the wildflowers which always grew in such abundance there. On Linn Creek winding through the land we could observe where the beavers built their dams. My brother used to set traps along the creek evenings to catch them, or rather he always dreamt of catching one, but I don't remember that he ever did. My own children loved to go down and do practically the same things we did, but that favorite spring haunt is gone forever. The land was taken into the city limits and housing areas have taken over. Now it is a mass of small one story houses that all look alike with practically no yard and no trees. They call it progressiveness! Now my grandchildren, all nine of them, will never know the thrill we as children experienced, hiking to Sloppy's Pasture. Multiply that one wooded section, by what is happening all over our country, to our few remaining local wooded areas. Is it any wonder that some of our children in the large cities are bent on destruction, cruelty and other forms of juvenile delinquency?

Many of them may have never known favorite haunts as I described, truly worth while things that money cannot buy once they are gone. God made things that are priceless. If we do not fight now for the preservation of America's outdoor heritage it will be too late by the time our grandchildren grow up.

for land, the need for immediate action is critical. In the case of many areas it is either now or never! One man with a tractor instructors. can plow an acre of prairie in a matter of minutes. A crew with modern chain saws can fell an acre of timber in a few hours. And though we try a thousand years prairie or virgin forest.

I believe it is the duty of every community in the state to acquire the few remaining areas adjoining them which can be bought outright, or presented to the county by gift. Then they can be set up Then to observe wildlife in their and protected by the community as areas of special interest for our young people or established as memorials. Every day wasted is an acre lost! . . . Mrs. Dewey Jacobson, Marshalltown, Iowa.

YOUNG IOWANS **RESPOND TO HUNTING** SAFETY PROGRAM

Malcolm K, Johnson

Hunter safety training, sponsored by the State Conservation Commission, is snowballing through Iowa. The system was re-Because of the growing demand organized last fall and since that time some 1,440 new students have been certified as safe hunters in the 81 counties that have qualified

> A few communities had a head start. Keosauqua down in Van Buren County is a good example. About six years ago a boy in that town of 1,100 asked George Carnahan, a local NRA instructor, to teach him how to handle a rifle. A year later George had 60 boys and girls under his supervision. By this year more than 300 had been certified and 138 youngsters are now undergoing training. The course taught there is about as complete as could be desired. The first things the students learn are the "Ten Commandments of Gun Safety" and the "Conservation Pledge." They progress through the basic rifle course, safe hunting

techniques, and, if desired, sho gun training.

Some of the more advanced size dents even learn the mathematic and mechanics of reloading she gun shells; the grains, dram grams and ounces of powder an shot and the correct proportion for various gauges and loads. / of the loading operations are course done only when the structors are on hand to see the the boys and girls make no mi takes.

Coed

Gun safety is coeducational. B tween 30 and 40 young ladies hav been trained so far in the Ke saugua vicinity and several mo will be certified this summer. The learn the same safe habits an methods of handling rifles an shotguns from Naomi Pfeiffe bookkeeper at the creamery. T girls often give the boys real con petition on the firing line.

Elsewhere in Iowa

At the time of this writing, Cu roll County leads the rest of the state with 250 certified safe hund ers. Marshall County is next will Cass County trailing close by. The g broad a secretary-treasurer of the Carnel In River Rifle Club wrote in and made | lbded the very pointed comment on his feel as as the i ings about the program. Instructor dingly, th Wilbur Pluckhahn said, "All of W 403 hen instructors have put a lot of Vol Bral point unteer work into it (the program lime of s but when a boy's dad tells you ed to ma that he would rather hunt with son than some older men it make mply ran you feel that you are accompliant ing a good deal."

WILDFLOWER OF THE MONTH

IOWA CONSERVATIONIST



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Bloodroot Sanguinaria canadensis

Beckoned up from the warmed earth on hill slopes by a few days of sunlight, bloodroot blooms with hepatica in April and May. They often appear in colonies along the edge of thickets and in open woodland glades. Each plant has a single flower an inch or two across of from eight to twelve delicate white petals. The center of the blossom is composed of many golden-yellow stamens.

On first glance a distinguishing feature of the flower is its square appearance. Normally four of the petals are longer than the rest and with little imagination you can make out a square. A scalloped gray-green leaf enfolds the stem below the flower.

The common and scientific names for this plant come from the bright orange-red juice contained in the thick root. This bitter sap is poisonous, affecting the heart, nervous system, and muscles of animals as well as humans. Bloodroot has been reported as the cause of a few deaths.

The flower stalks generally stain the hand that pick them with a sap used by the Indians for paint and dyes.

Wilfrid Macheak, game warde in Winnebago County, recently r ported, "I am proud to say thu we will have a hunter-safety pro gram in the school curriculum " all schools in the county." He had just finished setting up an instrutor's course for the whole county with some schools sending as many as four teachers.

The Community Benefits

Park Officer Skip Sapp of th Lacey-Keosauqua State Park, and joining the town of Keosauqua helps train the young shooters his spare time. When asked what effect he could see that came from teaching proper gun handling replied, "In most state parks the kids from nearby towns are to sponsible for the vandalism the goes on. In Lacey Keo, the kill come and tell me if something being damaged. They know the the park is theirs too."

The gun safety students and graduates behave themselves Since training began none of the has been involved in shooting tombstones, electrical insulator etc. That type of vandalism doe occur, but other juveniles are a fault. Adults of the town wer found in need of training after they had used signs behind the rifle range to sight-in their shol guns for the shotgun deer season At Keosauqua the students " ceive 12 to 15 hours of classrool (Continued on page 186)

ING NECKS INVADE SOUTHEAST IOWA

Malcolm K. Johnson

iuke's mixture of 680 pheas- of thing wouldn't have happened me were uncrated last March in if she had a day to recover from west Jefferson County near the trip down from Boone and a eld. This is the first such the wing brails that bound their me stocking made in that section wings during the winter. All of le state and is an experi- these phesants were kept in a 13 me al effort to see if the lower acre open roofed pen with one of the pheasant range can wing folded by a leather strap. shed southward on that side Feed and cover conditions were of e state. Several years ago natural so that they would be islands of extremely high better able to adapt to the stocknumers of ring-necks developed ing area. The birds that survived in ally near Greenfield in Adair this type of confinement are as y and Grinnell in Poweshiek sturdy as can be produced. Concy. They were the first break in ghs for southern Iowa and

time the southern border of the ood pheasant range was gen-B accepted as U. S. highway mers 30

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ritiz to raphy was chosen on the the low population problem. rest one of the seven safe out ies that has never had an net one season on pheasants. The clusive answers for the pheasant's ose long broad upland separating the failure to reproduce in southern

This batch of birds was hatched in the spring of 1960 from parents d minor sensations. Before that came from practically every section of Iowa plus some from Wisconsin. Future releases will be made on similar type areas with young birds descended from Green-Blowing the example of the field stock. The Mount Pleasant ne bin that did so well near Green- area in Henry County is scheduled wa nel a stocking site of similar for next year's attempt to solve

Still a Mystery

As yet, biologists have no conthe Sich & River and Big Cedar Creek counties. Adult birds stocked outnd make ited the same general fea- side the range boundary seem to on h tur as the Greenfield salient. Ac- survive normally, so poaching and Inst doin agly, the 277 proud roosters predators have little bearing on sands of years and as a conse-"All unc 103 hens were set free near the case. The favored theory now quence the soil in many instances lot sew al points of good cover. At relates to higher temperatures is less rich in calcium than farther provide me of stocking only one bird prevailing in the lower half of the north. A related idea that could ite to make it; a hen dropped state during the nesting period, bear on the problem is that proper int of a farm dog that The pheasant hens normally lay amounts of the trace elements en is pre ptly ran her down. This sort an egg a day until she's dropped such as iron, copper, magnesium,

leaves the nest. According to the not be available. Likewise the high temperature concept, in quality of the natural foods has southern latitudes the eggs begin been questions. to incubate before the hen actually starts to set on them. After other factors are partially or commencing incubation with heat wholly responsible for the few from the sun and then exposed pheasants in southeast Iowa. At to cool periods the embryo sup- some future date Conservation posedly dies. All this goes on Commission biologists expect to unrealized by the poor hens who crack this tough nut. In the meanare merely performing hereditary time, people in Jefferson County physical functions. The key or are mighty happy to hear those solution to this would seemingly proud cocks cackle and hope they'll be to find a strain that nests be- beget more of their kind. fore the onset of high daily heat. In other words, the hens would have to make an adjustment in their timing that would account for the change in latitude. Perhaps this may be the case with the pheasants that have done so well in the Greenfield vicinity. At the very least, this could be a partial answer.

Another theory that has withstood the strain of time is the lack of grit with a high calcium content. The best and good pheasant ranges in Iowa lie vaguely in the area covered by Wisconsin and Iowan glaciation. (See April, 1961 issue, page 124.) Outside of this region the land has been exposed to leaching for many more thou-

six to twelve and between times manganese, zinc, and cobalt may

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All the foregoing and probably

BURLS AND OTHER UNUSUAL WOODS

Mann and Thompson

Wood worked by the hands of skilled craftsmen puts a wealth of quiet beauty into our daily lives. The warm glow of natural wood in different shades and forms invites the touch and a home without it seems drab and artificial. Most carpenters and amateur handy men are happy to work with straight boards with straight grain sawed from perfect logs. In contrast, the finest panelling, cabinet work, art objects in wood are made from parts of the tree which are ordinarily discarded. The crooked grain in stumps and logs with knots of crotches yield fanciful patterns when turned on a lathe or cut into veneer. So does the twisted grain in trees crippled by old injuries and in the tumorous or abnormal growths called burls.

Sometimes a burl is defined as an enlarged bump growing on a tree trunk and sometimes as almost any unusual woody growth. They are found occasionally on a wide variety of trees. Certain large galls or burls on oaks follow a chronic fungus infection. On other trees they seem to result from injuries, burns or continuous irritation. In most cases the causes are not understood. Many kinds of trees produce the lumpy swellings called burls but those of the redwood may be six or eight feet thick and weigh thousands of pounds. Their heavy hard dark wood is figured with a fantastic grain. Like the potato with its eyes, a burl contains buds. A small one from the redwood placed in a dish of water will send up a ferny sprout. Black walnut and black cherry burls are highly prized both because of the rich colors of their woods and because of their weirdly distorted grain. This is produced by innumerable buds that failed to develop, giving a bird's-eye effect. Rare sugar maple logs-perhaps only one in a hundred or a thousand—show the exceptional curly or bird's-eye pattern in the grain. Tastes in woods change like fashions in hats. Pine boards full of knots and cypress boards full of holes, once worthless, now bring high prices for panelling in dens and rumpus rooms.—Cook County Forest Preserve.

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the coop, a pair of squawking cock pheasants test their flight power for the first time on the way to freedom in Jefferson ounty. The stocking site is outside of the normal range, but deemed best to maintain the birds and expand the territory.

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HUNTER SAFETY-

(Continued from page 134)

work plus the time spent on the firing range. They shoot at the range only when supervised by adults and must have written permission from the parents before they are allowed to fire a gun at the range.

Of course, there is always some resistance to firearms instruction from the standpoint of danger. One mother refused to give her children permission to attend classes and on the meeting night they went sleigh riding and were involved in an accident. When the next class was held they were there and now even "mom" shoots with them on the range.

One principal benefit of the program is that safe shooting habits are infectious. When a youngster is fully trained he is quick to point out errors to his friends and his family. He takes his good habits home with him; homewhere a good many accidents result from carelessness. On the rifle range at Keosauqua one day an outdoor session was taking place. Young folks from 10 to 15 years old were firing or waiting their turn. A stranger walked up with a new varmint rifle (telescope and all), laid it on a table, and went to talk to one of the instructors. Several boys walked over to admire the gun, looked at it without laying a hand on it and



"Ready on the firing line" . . . and six hunter safety trainees prepare to unleash a barrage of 22 bullets. The community Keosauqua has been very active in providing equipment and trainers to help their children learn how to be safe with firearms

if he would please move the touched my rifle?" He was told received requests from cities weapon as the table was needed. Surprised, the gun-owner asked an instructor, "What's the matter left. Later one lad asked the man with these kids-not one of them

that the students never pick up northern Iowa, Illinois and Mi someone else's gun. "They'll take souri for advice on how to set " it if you hand it to them, but only similar clubs. if the action is open," the instructor added.

Who's Responsible

The Keosauqua Junior Rifle you won't have to hunt for hus switch to Club is sponsored locally by the tomorrow" even if, as has been easy of wh Beer Barker American Legion Post, the case, it's the boy that get bead for guns and supplies are donated by dad interested in hunting and fish Waters to local merchants, and teaching aids ing. The whole object of the time is for larg and materials come from both the and toil involved in training the State Conservation Commission junior hunters is not to make pro ming to the and the National Rifle Associa- fessional shooters out of them, but tion. The club is run by an elec- to make safe, well-mannered trician assisted by a park officer hunters whose sense of competent and guided by an executive com- tion lies in who is safest rather mittee of five citizens. The organ- than who makes the highest score ization operates smoothly and has on the target.

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George Tovey Phil

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The leaders of the club are full agreement with the adag "If you hunt with your boy today





George Tovey Photo. This beginning rifleman handled her gun with the assurance and proficiency of a veteran. Responsible adult supervisors should stand by at all times when youngsters are firing. George Tovey Photo

"Keep that muzzle up" and "never accept a gun unless the action is open" are two cardinal rules obeyed by the junior shooters. Many adults could profit by these thought