MARCH 1980

CONSErvationist



IOWA CONSERVATIONIST MAGAZINE

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CONTENTS FOR MARCH 1980

- 2 SHEARING EVERGREENS
- 4 IT'S MORE THAN JUST THEIR FIRST FISHING TRIP
- 5 CATFISH AFTER ICE OUT
- 6 1979 BIG FISH
- 6 IOWA ALL-TIME RECORD FISH
- 10 PECANS WHICH GROW IN THE NORTH
- 12 WITH TURKEYS, IT ISN'T THE SHOT THAT COUNTS
- 14 WARDEN'S DIARY
- 14 LOOKIN' BACK
- **15 CLASSROOM CORNER**
- **15 SKUNK CABBAGE**

Cover photo by M. Black.

Thousands of trees will be planted this year in the Plant Iowa Program. Watch for a project in your

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Shearing Evergreens

by Bob Hibbs DISTRICT FORESTER

LATE JUNE or early July is the correct time for shaping or shearing evergreens, whether you are interested in producing Christmas trees or having a uniform shaped lawn tree.

To understand the correct procedure for shaping evergreens, one must understand their growth characteristics. Evergreens pines, spruces, firs, cedar and junipers break dormancy during April and early May. Buds enlarge, followed by stem elongation in May and June. The new growth will be much lighter in color than the old needles. These new shoots are commonly referred to as "candles". After the May to June growth period, neither pines, spruces, nor fir will add any more limb length or tree height. Next year's buds are set in July. Being aware of these growth characteristics, the well-informed grower will complete his shearing prior to mid-July.



New growth (candles) forming on a young white pine.

Unlike pine trees (Scotch pine, red pine, white pine or others), cedar, spruce, juniper and fir do not grow whorls of limbs. These trees have buds and new growth for the entire length of their stems. Because of this, shearing may be done nearly any time of the year. Christmas tree growers usually delay spruce and fir shearing until completion of their pine shearing. Late season shearing has a dwarfing effect that may be desirable for foundation junipers or cedars.

Shearing generally begins the third year after planting, or whenever growth of the terminal (top) leader exceeds 12 to 14

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The first step of shearing is to reduce the growth of the terminal (top) leader. Make a 45-degree angle cut not more than 12" above the top whorl of branches.

inches. Cutting should be confined to the current season's growth. But if shearing has been neglected, it is possible to cut back into older wood. Cutting into two or threeyear-old wood is usually a last resort treatment to salvage a tree that has been uncared for. Cuts into old wood should be made at a crotch or whorl. The remainder of the tree should be sheared to prevent unbalanced growth away from the excessively sheared area. It will take two to three years for a tree to recover from excessive shearing. Cuts should not be made on an area of the stem having no green needles. Care should be taken that no more than one-third of the live crown be removed in any one growing season. Seek qualified advice anytime you have doubts about your own particular situation.

Although you may shear your evergreens to whatever shape you wish, there are general recommendations to obtain a uniform Christmas tree shape: 1. Control height growth by shearing the terminal (top) leader so it does not exceed 12 inches in height. Make this cut at a 45-degree angle 2. Clip the branches of the top whorl so that the total spread of the whorl does not exceed one-half to two-thirds the length of the terminal leader. (A 12" leader should have a

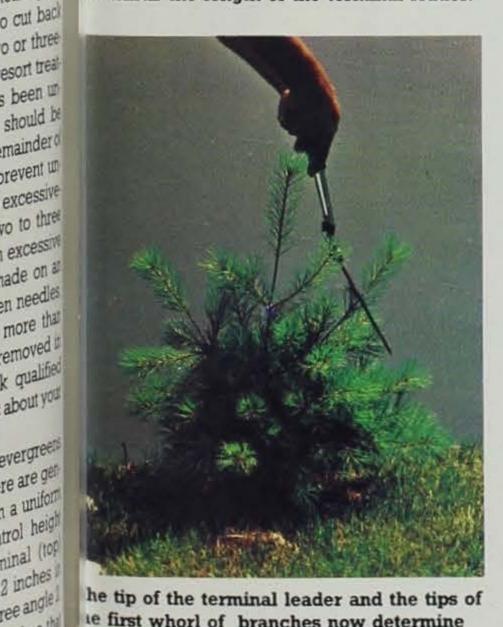
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12 to 14

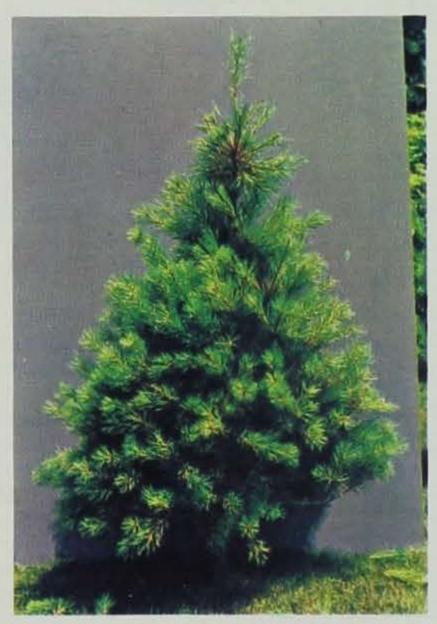
8" spread.) 3. Use the tip of the leader and e tips of the whorl to determine your cutng angle. Cut all side branches in a top-toottom manner. Do not cut into the tree from



hen clip the top whorl of branches so that e total spread of the whorl is one-half to vo-thirds the length of the terminal leader.



he tip of the terminal leader and the tips of te first whorl of branches now determine te angle for cutting downward. Cut off all ide branches extending beyond this naginary line.



This newly-sheared white pine will fill out yet for several years prior to becoming a premium Christmas tree.

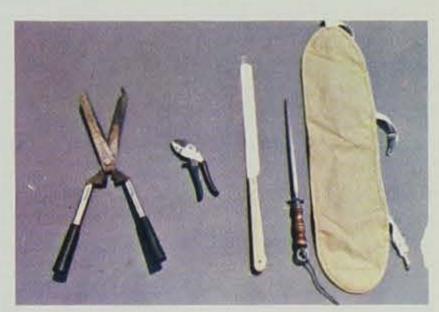
the side, as this will result in "stairstep" trees. 4. Remove crossed or deformed limbs when the tree is young. And remove the lowest whorl of branches so there will be enough trunk for a Christmas tree stand. This procedure will produce a tree with a height to width ratio of somewhere between 2:1 and 3:2. The 3:2 ratio would be a 6-foot tree with a 4-foot width.



Using a shearing knife to put the finishing touches on a Scotch pine ready for harvest.

By shearing in early July, you will gain the current season's growth and you will obtain buds for next year's growth. If shearing is done after bud set, next year's growth will be delayed as the tree attempts to develop buds.

Equipment for shearing often varies according to the preference of the tree grower. No equipment is necessary if you merely wish to reduce candle growth by hand plucking. A pocket knife would also be sufficient. Most growers find that hedge shears work quite well for trees through a three-foot height. For taller trees, shearing knives are preferred. Hand clippers are the favorite tool for clipping the terminal leader and for removing large branches.



Tools for shearing (left to right): Hedge shears, hand clippers, a shearing knife, sharpening steel and leg guard.

Safety in shearing is extremely important. No one should be within twenty feet of someone using a knife. Keep at least one row of trees between yourself and a man with a shearing knife. If the knife is held in the right hand, shearing should be done in a counter-clockwise direction. This moves the blade down and away from the body rather than across the body. Leg protection should be worn on the right leg. Tools must always be kept sharp and well-maintained.

As you gain proficiency at shearing, there are additional refinements you might consider. Some growers make a point of directing their 45-degree angle cuts of the terminal leader such that the prevailing winds will always push the candle in the desired direction. Other growers have adopted a hand plucking shearing method for the final shearing of long-needled pines. This avoids the "shaved" appearance of some sheared trees. Additional information about Christmas tree production can be obtained from your County Extension Service office, the Iowa Christmas tree growers' association, or your district forester.

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It's More Than Just Their First Fishing Trip

Molding your child's future

by Bob Mullen STATE CONSERVATION OFFICER

HAVE YOU taken the time to take your youngster fishing with you? If you haven't, there's no better time than this spring. You'll find out it's more than just a "fishing trip".

There's no better place for the first fishing trip than a pond that's overstocked with bluegills or sunfish. Children need to have their enthusiasm kept up, and bluegills or sunfish will certainly do that. Size of the fish isn't important to a child, but "catching fish" is. One pole will be enough. You'll be kept busy just helping the little one fish. You will also need to take along generous portions of humor and patience.

Your child will be trying hard to do things right, for they want to please their parents, but they need lots of help. Helping a child put a big wiggly worm on the hook can have its lighter moments, if you bring along your sense of humor.

Catching that first fish is going to take a lot more patience on your part than your youngster. Trying to get the line out to the right spot is hard for the little ones, so you'll need to help. After they get the line out, they will probably want to bring it back in right away to see if the worm is still on the hook. If the fish aren't cooperating fast enough,

children get easily distracted. They quickly find it's fun to throw rocks at the bobber or splash the tip of the pole in the water. Remember your patience! When that first bluegill pulls the bobber under the real fun begins. You might have to help hold the pole or even help reel the fish in because the youngster will get so excited about this big moment. When that first fish is finally on shore, there will be two very proud people. You're so darn proud of that youngster of yours and his or her first fish, but not half as proud as the child. Catching that first fish is a moment that will be treasured forever by both parent and child

We mustn't expect a young child to be able to even come close to doing things correctly at first. You need to be careful in helping that young angler. You might be fortunate enough to be developing a life time fishing partner. We must realize if we are going to teach our children, we must first give something of ourselves.

Can't you look back on your life and remember that special someone who took the time to teach you the many enjoyable experiences of your youth? That person holds a dear place in our lives. They molded our lives, and taught us right from

wrong. A child's life is patterned after that parent, friend, or neighbor who took time to provide that personal direction which a child desperately needs while growing up.

Probably some of your cherished memories of childhood were fishing trips you took with your Dad. It seemed Dad knew just where to put the bait so you would catch a fish. It was your Dad's concern for you catching that fish that let you know he was really interested in you. You probably will never really know what an impact it has on your youngster when you take them fishing, but 10, 20, or 30 years from now your children will still hold that first fishing trip close in their hearts.

There are so many things going on in our lives that keep us busy. Providing for our family alone makes it hard to spend the time with our children as they are growing up. We fail to realize at times just how much effect we have on molding the footsteps our children will follow. Taking the time now, whle our children are small, is a good investment and can prevent problems in later childhood.

There is no better atmosphere for communication between parent and child than a pond bank on a warm

summer day while waiting for the fish to bite. Perhaps some of the problems today's teenagers have could have been prevented if parents would have spent some time fishing with them in their early years. Today's youth are hungry for affection that was not given to them when they so desperately needed it during their early childhood. A small child doesn't care if he's fishing with a hundred dollar fishing outfit or sitting on the bank with a cane pole.

A youngster is only interested in having the opportunity, and sharing it with a concerned and caring parent. It's out there fishing, not in the classroom where the real values of sportsmanship, and parent/child relationships are developed.

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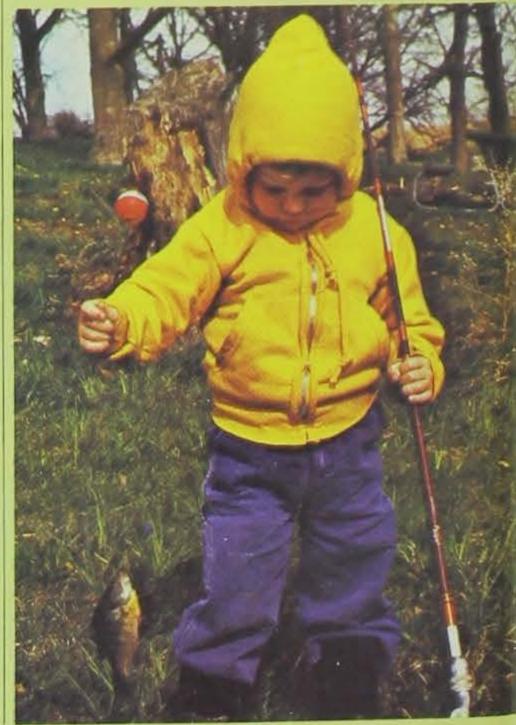
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My favorite

If you can find the time good popula and want to improve your relationship with your children, take them fishing. Better yet, make more than just your child's first fishing trip.

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IOWA CONSERVATIONIST MARCH IS

Cut bait is best for spring fishing.



tos by Roger Sparks

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WHEN YOU THINK of hing for catfish, July and igust along with warmer mperatures come to mind most people. In fact those it weather months are ry productive for old Mr.

hiskers. But for the angler no likes catching and eating tfish and hasn't tried for em right after ice out, he or e is missing out on a lot of d bending action. My favorite areas are where od populations of gizzard ad exist. Shad are very ensitive to water temperature lange. Every year after the 3 goes out, thousands of and that didn't survive the nter provide a natural food jurce for channel catfish. eas that have healthy shad pulations include Red ock Reservoir (Marion ounty), Rathbun Reservoir ppanoose County), Coralle Reservoir (Johnson ounty), Saylorville Reservoir 'olk County), Lake Ahquabi Varren County), Lake anawa (Pottawattamie ounty), Storm Lake (Buena sta County), and North Twin ake (Calhoun County). With dead shad floating ong the shorelines after ice it, the most logical natural ait is dead fish or cut bait. ut bait consists of strips or eces of dead fish such as 1ad, carp, chubs or whole innows. The bait doesn't ecessarily have to be nbearably rotten or stinky s fresh dead "morsels" ork quite well. Cut bait is reliable catfish bait from ice It to about the first of June

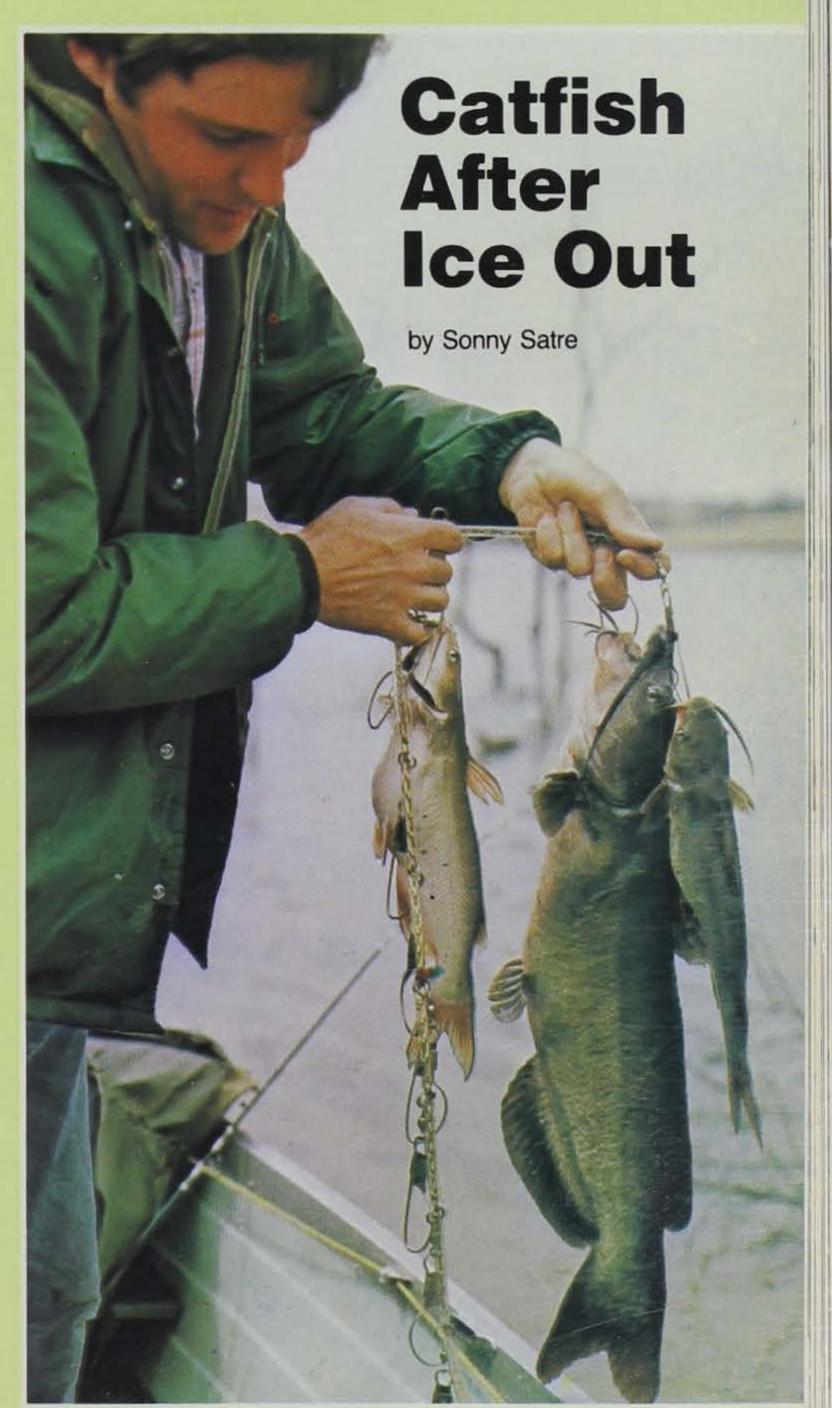
ocording to several informnts who supposedly are operts in their field. For best results, fish on the

indward side as the wave

action will drift the natural fish food menu toward you and that is where the hungry catfish should be waiting. Another suggestion is to fish the shallow water in the upper ends of coves. Try depths ranging from two to six feet. Water temperatures are warmer in the shallow water and catfish seem to prefer these areas during the early spring.

The next step after you know what kind of bait to use and where to go is what kind of tackle is the best to rig up. It pays to use heavier line because of snags and the good possibility of hooking a heavy catfish. Catfish over 10 pounds are not uncommon. I prefer at least eight pound test. A stiff bass type rod is preferable to avoid letting the fish play you instead of you being in full control. The sturdier type rod will prevent the hooked fish from wrapping your line around the numerous snags. This isn't the place for ultra-light tackle. A number 2 or 4 short-shanked hook baited with cut bait and weighted with a small split shot is all you need along with some patience. If you don't get a hit within 10 or 15 minutes, move to a new spot. Move around until you locate that lucky hole. Fishing from a boat is the most desirable as it allows you to get to places not easily accessible from shore.

Early spring catfishing provides some tremendous angling opportunities and few people take advantage of it. I know I'm going next spring and you'd better too or else you're going to miss out on some very exciting angling and good eating! Good luck.



1979 Big Fish

One Record Broken . . . Two Established

Although only one record was broken, 1979 was another super year for Iowa anglers. Iowa big fish awards were sent to 221 qualifiers. The big fish awards program, now in its 19th year, has established some records which are hard to top although Iowa anglers manage to break one or two each year.

During 1979 the smallmouth bass record was again toppled when Rick Pentland of Estherville hooked a 6 pound 8 ounce monster from Spirit Lake. Pentland's trophy fish nipped the old record by one ounce.

In addition, two new records were established in categories previously unlisted. The two new categories are blue catfish and tiger musky — species on which verification is critical.

The two verified record catches were made by Fred Droizscher of Council Bluffs who caught a 30 pound 8 ounce blue catfish from Lake Manawa, Pottawattamie County and Doug Stange of Sibley who took a 20 pound 10 ounce tiger musky from West Okoboji in 1978. Stange's musky was not verified by Commission personnel until this past year.

If you would like to receive a big fish certificate and have your record listed in next year's March magazine, there is one proven formula for success. Go fishing everyday in 1980 or at least as often as possible. Commission research nettings around the state show that there are many tackle busting record fish just waiting for you.

ALL-TIME RECORD FISH

WEIGHT	LENGTH	WHERE CAUGHT	DATE	NAME
BASS (Largemouth)				
10 lb. 5 oz.	2414	Farm Pond Lee County	8-70	Paul Burgund Fort Madison
BASS (Smallmouth)				100000000000000000000000000000000000000
6 lb. 8 oz.	2138"	Spirit Lake Dickinson County	5-79	Rick Pentland Estherville
BASS (Rock)				
l lb. 8 oz.	10/4	Mississippi River Dubuque County	6-73	Jim Driscoll Dubuque
BASS (White)				
3 lb. 14 oz.	20"	West Okoboji Dickinson County	5-72	Bill Born Milford
BASS (Yellow)				
1 lb. 5 oz.	1212	Clear Lake Cerro Gordo County	5-78	Lowell Washburn Fertile
1 lb. 5 oz.	13"	Sand Pit Black Hawk County	6-78	Timothy Dolan Waterloo
BLUEGILL	1 2 2			
2 lb, 5 oz.	1134"	Farm Pond Jasper County	4-76	Mary L. Pool Prairie City
BULLHEAD	100000			
1 lb. 8 oz.	1794	Farm Pond Taylor County	4-66	Dennie Karas Massena
4 lb. 8 oz.	2214	Boyer River Harrison County	8-71	Ralph Cooney Woodbine
BUFFALO				
13 lb. 8 oz.	40"	West Okoboji Dickinson County	4-74	James D. Grim Arnolds Park
CARP	2.00	200	200	
90 lb.	44"	Glenwood Lake Mills County	5-69	Fred Hougland Glenwood
CATFISH (Blue)	100		0.70	D. A.D. Harden
30 lb. 8 oz. CATFISH (Channel)	40"	Lake Manawa Pottawattamie Co.	6-79	Fred Droizscher Council Bluffs
30 lb. 4 oz.	2007	Milde of Color	0.74	Class Hanne
	39"	Viking Lake Montgomery County	8-74	Glenn Harms Shenandoah
CATFISH (Flathead) 62 lb.	46"	lowa River	7-65	Roger Fairchild Coralville
CRAPPIE		Johnson County		Coraivine
4 lb. 1 oz.	1974	Farm Pond Tama County	5-69	John Lenhart Tama
A STATE OF THE PARTY OF THE PAR				
MUSKELLUNGE 38 lb.	521/2"	West Okoboji	9-75	Ed Feldhacker
TIGER MUSKY		Dickinson County		Spencer
20 lb. 10 oz.	431/2"	West Okoboji Dickinson Co.	5-78	Doug Stange Sibley
NORTHERN PIKE		Disparation Co.		Stoley
25 lb. 5 oz.	45	West Okoboji Dickinson County	2-77	Allen Forsberg Albert City
PADDLEFISH				Timer, only
83 lb.	6694"	DeSoto Bend Harrison County	5-73	Lawrence J. Bonham Missouri Valley

WEIGHT	LENGTH	WHERE CAUGHT	DATE	NAME
PERCH (Yellow)				
1 lb. 15 oz.	1474	Spirit Lake Dickinson County	9-74	John Wal Estherville
SAUGER				
6 lb. 8 oz.	25"	Missouri River Woodbury County	10-76	Mrs. William Buser Sloar
SHEEPSHEAD				
46 lb.	381/1	Spirit Lake Dickinson County	10-62	R. F. Farrai Clario
STURGEON (Shovelne				
12 lb.	33"	Des Moines River Van Buren County	4-74	Randy Hemit Doud
SUCKERS (Misc.)		W 647		
12 lb. 2 oz.	31"	Iowa River Johnson County	4-78	George A. Paulso Cedar Rapid
SUNFISH (Misc.)	100000			000000000000000000000000000000000000000
1 lb. 7 oz.	1038	Farm Pond Des Moines County	6-77	Delbert Cove Mediapoli
TROUT (Brook)				2
1 lb. 14 oz.	16"	Sny Magill Creek Clayton County	2-75	John Dellemar Davenpor
1 lb. 14 oz.	1692	Canoe Creek Winneshiek County	4-78	DuWayne Rude Decoral
TROUT (Brown)				
12 lb. 141/4 oz.	28"	Elk Creek Delaware County	11-66	Billy Lee Marior
TROUT (Rainbow)		SAVMAR SAMEN		
15 lb. 8 oz.	301/2"	Turkey River Clayton County	8-77	Chuck Grett West Des Moines
WALLEYE				
14 lb. 2 oz.	311/1	Spirit Lake Dickinson County	10-68	Herbert Aldridge Spirit Lake

HOW TO ENTER

Any species of fish taken by hook and line and caught in state or boundary waters is eligible. There are, however, minimum qualifying weight limitations as listed below:

Bass, largemouth 7	lbs.	Muskellunge 40" or 15	lbs.
Bass, ocean		Tiger Musky 40" or 15	lbs.
striped 5	lbs.	Northern pike 10	lbs.
Bass, rock 1	lb.	Paddlefish 25	lbs.
Bass,		Perch, yellow 1	lb.
smallmouth 4	lbs.	Sauger 21/2	lbs.
Bass, white 21/2	lbs.	Sheepshead 15	lbs.
Bass, yellow 1	lb.	Sturgeon,	
Bluegill 1	lb.	shovelnose 3	lbs.
Buffalo	lbs.	Sucker (Misc.) 6	lbs.
Bullhead 21/2	lbs.	Sunfish (Misc.) 1	lb.
Carp 25	lbs.	Trout, brook 1	lb.
Catfish, blue 20	lbs.	Trout, brown 3	lbs.
Catfish, channel 15	lbs.	Trout, rainbow 3	lbs.
Catfish, flathead 20	lbs.	Walleye 8	lbs.
Crappie 2	lbs.		

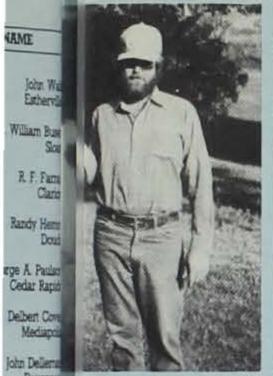
Any entry must be weighed to the nearest ounce on scales legal for trade. The weighing must be witnessed by two persons.

If there is some doubt in species identification, the angler should contact the nearest Iowa Conservation Commission personnel for verification. Any new all-time record fish must be examined and verified by Iowa Conservation Commission personnel.

The Iowa Conservation Commission will offer free taxidermy work for any new all-time record fish. The only stipulation is the fish will be on public display at the Rathbun Fish Hatchery until the record is broken. Then the fish will be returned to the angler.

The angler must fill out an official entry blank or fascimile and send is and a photo or color slide of the angler and the fish to Official Big Fish Records, Iowa Conservation Commission, Wallace State Office Building, Des Moines, Iowa 50319, by January 1 (photo will be returned). The entry blank includes the name and address, the species of fish, date caught, body of water, county, total length, bail or lure used, and the witnesses' signatures and addresses. Official entry blanks will be included in the annual Fishing Laws Synopsis brochure which will be available to the public wherever fishing licenses are sold. Any fish that surpasses the official state record will be publicized through the Conservation Commission's weekly news release. All state records and annual awards will be published in the March issue of the IOWA CONSERVATIONIST. Iowa Angling Award certificates and shoulder patches will also be sent to qualifying anglers.

DOWNS



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John Well Esthervio

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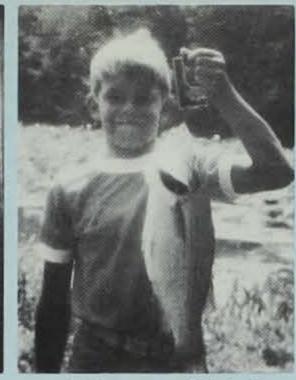
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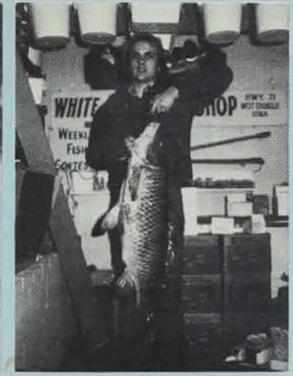
Annis — Rock Bass



Delever --- White Bass



Casey — Bluegill



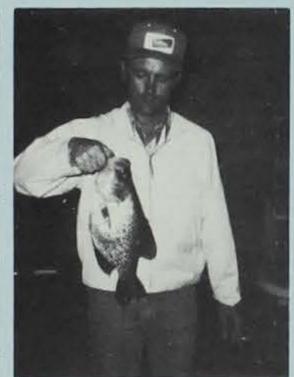
Homan — Carp



Channel Catfish



Slaman - Flathead



Perkins — Crappie



Huff — Paddlefish



Caggiano - Perch



Downs - Perch



Nettleton - Sauger



- Sheepshead Lehman



— Sucker Ahrens



Monaghen — Rainbow



her - Blue Catfish

1979 **Big Fish Awards**



- Buffalo VerMulm



- Northern Pike Lilienthal

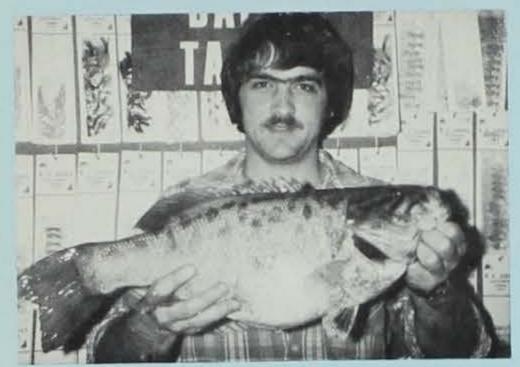


Wilson - Brook Trout



Dengler — Walleye

1979 ENTRIES



Rick Pentland — Smallmouth Bass New Record at 6 lb. 8 oz.

Weight	Length	Where Caught	Date	Name and Address		
BASS (Large	BASS (Largemouth)					
9 lb. 4 oz.	23"	Farm Pond	6-2	Dennis Marcum		
0.11	A-11/4	Monona County	0.0	Moorehead Weir Carter		
8 lb.	211/3	Farm Pond Guthrie County	9-8	Menlo		
7 lb. 13 oz.	25"	Farm Pond	7-3	Richard D. Vignaroli		
	-	Warren County		Des Moines		
7 lb. 12 oz.	23"	Farm Pond	4-14	Frank J. Haidsiak Bedford		
711 10	00160	Taylor County	4-22	Joe Keul		
7 lb. 12 oz.	231/2"	Farm Pond Lucas County	4-66	Des Moines		
7 lb. 8 oz.	231/2"	Farm Pond	10-8	Leo Mace		
		Page County		Clarinda		
7 lb. 6 oz.	2314	Lake Wapello	11-8	Denny Burd Burlington		
7 lb. 3 oz.	23	Davis County Lake Wapello	11-8	Denny Burd		
1 ш. 3 ог.	63	Davis County	44.0	Burlington		
7 lb. 2 oz.	23"	Hallet's Pits	5-28	Larry I. Long		
Control of the Contro	2000	Sac County		Des Moines		
7 lb.	231/1	Farm Pond	7-16	Mark Allard Sioux City		
7 lb.	211/2"	Plymouth County Central Lake	5-4	Eric Johnson		
I MAN	6176	Jones County		Marion		
7 lb.	22"	Lake Iowa	4-16	Russell McPhail		
DRCC (OCT	N CTDID	Iowa County ED) No entries		Waterloo		
BASS (ROC		ED) No entries				
1 lb.	111/8"	Wapsipinicon River	5-22	Brad Annis		
BASS (SMA	LIMOUTT	Linn County		Coggon		
*6 lb. 8 oz.	2138	Spirit Lake	5-15	Rick Pentland		
SITE AND STORY	2010	Dickinson County	20155	Estherville		
6 lb. 2 oz.	22"	Spirit Lake	5-28	E. L. Jueb		
5 lb. 8 oz.	2001	Dickinson County Spirit Lake	4-22	Spirit Lake James Rogness		
5 LD. 8 OZ.	20"	Dickinson County	+66	Spirit Lake		
5 lb.	201/2	Cedar River	10-14	Ercyl E. Keeling		
		Floyd County	1400000000	Charles City		
4 lb. 12 oz.	50/4,	Spirit Lake	5-13	Bob Buell Estherville		
4 lb. 12 oz.	20"	Dickinson County West Okoboji	5-5	Bob Fitzgerald		
4 ID. 12 OZ.	20	Dickinson County		Milford		
4 lb. 11 oz.	2012	West Okoboji	5-18	Don Hallett		
	2200	Dickinson County	0.00	Raiston Monty Baker		
4 lb. 10 oz.	21"	West Okoboji Dickinson County	8-22	Estherville		
4 lb. 8 oz.	2014	Little Turkey River	9-30	Rick Gardner		
		Fayette County		Sumner		
4 lb. 6 oz.	20"	West Okoboji	6-11	Frank Nissen		
4 lb. 6 oz.	20"	Dickinson County Spirit Lake	10-10	Lakeland, Florida David P. Smith		
4 ID. 0 02.	20	Dickinson County	10-10	Cherokee		
4 lb. 5 oz.	19"	Spirit Lake	6-7	Alice McCullough		
2.00	020	Dickinson County		Vail		
4 lb. 4 oz.	19"	Turkey River Howard County	10-3	Marvin P. Brandt Cresco		
4 lb. 4 oz.	20"	Big Creek Lake	4-28	Randy N. Breese		
1 ID. 1 OE.	20	Polk County	1-00	Ankeny		
4 lb. 4 oz.	191/2"	West Okoboji	5-22	Jerry Peschon		
TAT MATERIAL TO A COLOR	anles	Dickinson County	0.11	Worthington, MN		
4 lb. 4 oz.	1914	Spirit Lake Dickinson County	8-11	Richard Roe Estherville		
4 lb. 4 oz.	191/2"	West Okoboji	5-4	Joe E. Shuck		
	1.690.0	Dickinson County	7070	Arnolds Park		
4 lb. 3 oz.	20"	West Okoboji	6-5	Jeff Hansen		
4 lb. 3 oz.	1994"	Dickinson County West Okoboji	2-14	Sibley Jon B. Parks		
ч ш. з ог.	1974	Dickinson County	6-19	Milford		
4 lb. 3 oz.	1974	Spirit Lake	4-28	Richard Roe		
7.61		Dickinson County		Estherville		
4 lb. 2 oz.	1914	West Okoboji Dickinson County	1-9	Dick Alexander Milford		
4 lb. 2 oz.	20"	Dickinson County West Okoboji	5-19	The second secon		
1 20 10 000	60	Dickinson County		Sibley		
4 lb. 1 oz.	1874"	West Okoboji	5-25			
		Dickinson County		Cherokee		

Weight	Length	Where Caught	Date	Name and Address
4 lb. 1 oz.	1814	Spirit Lake	5-16	Dave Matuska
4 lb. 1 oz.	19"	Dickinson County West Okoboji	6-10	Sheldon Mavis Olin
4 lb. 1 oz.	19"	Dickinson County West Okoboji	8-11	Spencer Dean Taylor
		Dickinson County	-	Sioux City
4 lb.	1974	West Okoboji Dickinson County	5-19	Terry Macht Bettendorf
BASS (WHT)	TE) 171/2"	Lake Wapello	8-8	Donald Delever
3 lb. 4 oz.	1874	Davis County West Okoboji	6-1	Calamus James L. Jones
	0.000	Dickinson County	2.5	Spirit Lake Kenneth Bricker
2 lb. 14 oz.	18"	West Okoboji Dickinson County	4-22	Okoboji
2 lb. 12 oz.	17	West Okoboji Dickinson County	10-13	Don Hansen Milford
BASS (YELL BLUEGILL	LOW) No I	Entries		
1 lb. 10 oz.	1144	Farm Pond Adams County	5-21	Judy Casey Creston
1 lb. 4 oz.	101/2"	Farm Pond	5-29	George White Coralville
1 lb. 3 oz.	101/2	Davis County West Okoboji	7-27	Doug Johnson
1 lb. 1 oz.	1034"	Dickinson County Farm Pond	12-16	Spirit Lake Todd C. Janes
	994	Woodbury County Lake Icaria	9-12	Sioux City Rita M. Wolf
1 lb. 1 oz.		Adams County		Omaha, NE Tim Donahue
1 lb.	10"	Farm Pond Marshall County	8-5	Tim Donanue Marshalltown
23 lb. 8 oz.	3294	Spirit Lake	5-5	Dean VerMulm
22 lb. 2 oz.	33"	Dickinson County Skunk River	3-24	Sioux Center John H. Millspaugh
SUTTING STREET		Henry County West Okoboji	8-1	Lockridge Bernie Gronstal
21 lb. 12 oz.		Dickinson County	0-1	Carroll
3 lb. 8 oz.	171/2"	Farm Pond	9-5	Leonard "Barney" Ross
2 lb. 8 oz.	141/2"	Mahaska County Lizard Lake	10-27	Oskaloosa Heath Pomeroy
		Pocahontas County Farm Pond	5-21	Palmer Dale A. Olson
2 lb. 8 oz.	1412	Marshall County	5-21	Marshalltown
38 lb. 8 oz.	40"	West Okoboji	4-9	Mike Homan Estherville
38 lb.	35	Dickinson County Lake Manawa	6-27	Archie Rush
37 lb.	44"	Pottawattamie County Spirit Lake	5-28	Council Bluffs Mark Patten
757 (757 L) 		Dickinson County	3-27	Cherokee Edward Helms
35 lb.	37	Mississippi River Allamakee County	5.00	Aurora
33 lb.	36"	Farm Pond Polk County	5-9	Ben Thompson Des Moines
28 lb. 4 oz.	36"	Lake Manawa Pottawattamie County	4-20	Richard R. Rosman Omaha, NE
26 lb. 2 oz.	36"	West Okoboji Dickinson County	6-22	James Mett Hartley
26 lb.	36"	Mississippi River	4-15	Milo Lucas
25 lb. 4 oz.	351/2"	Clayton County Indian Lake	5-22	Guttenberg Steve Gevock
CATFISH	BLUE)	Van Buren County		Ely
*30 lb. 8 oz		Lake Manawa Pottawattamie County	6-9	Fred Droizscher Council Bluffs
20 lb. 8 oz.	311/2"	Saylorville Reservoir Polk County	4-7	Ralph E. Fritchey Des Moines
CATFISH		L)	7-22	Jerry Ranne
23 1Ь.	34"	Prairie Rose Lake Shelby County		Council Bluffs
18 lb. 12 or	z. 32"	Spirit Lake Dickinson County	6-2	Marilyn McCrary Lake City
18 lb. 8 oz.	3314"	Sand Pit Polk County	8-10	Frank L. Gustafson West Des Moines
18 lb.	34"	Des Moines River Polk County	7-7	Kenneth R. Davis Des Moines
18 lb.	3114	Farm Pond	8-11	Davis Hughes Winterset
17 lb. 12 o	z. 32"	Madison County Maffit Reservoir	9-3	Dale A. Reeser, Sr.
17 lb.	32"	Polk County Prairie Rose Lake	5-4	Des Moines Mae Brandt
16 lb. 13 o		Shelby County West Okoboji	6-13	Council Bluffs Peg Cuttell
		Dickinson County		Spirit Lake Stanley M. Simmer
16 lb. 5 oz		Maffitt Reservoir Polk County	8-10	Das Moines
16 lb. 4 oz	. 291/2"	Farm Pond Wapello County	5-29	Rodney G. Skinner Ottumwa
15 lb. 8 oz	32"	Skunk River Keokuk County	8-31	Warren Lowenberg Hedrick
CATFISH 53 lb. 4 oz	(FLATHE)		5-21	Ted Slaman
	46"	Linn County Iowa River	8-25	Cedar Rapids Kenneth D. Alberts
52 lb.		Johnson County		Coralville
40 lb. 12 o	z. 41"	Cedar River Linn County	3-19	Paul L. Montgomery Walford
31 lb.	40"	Cedar River Linn County	5-30	Robert Null Cedar Rapids
20 lb.	36"	Cedar River Linn County	7-4	David H. Hurt Lisbon
CRAPPIE 4 lb.	17"	Greencastle Lake	5-12	Alan L. Perkins
1000		Marshall County	5-2	Marshalltown James M. Fordy
3 lb. 4 oz.	1790	Greencastle Lake Marshall County	5-2	Cedar Rapids

Weight	Length	NO.
3 lb. 4 oz.	1712	Cert
3 lb. 4 oz.	1794	App
3 lb. 2½ oz.	1894	Other 1
3 lb. 2 oz.	1774"	Gra
3 lb. 2 oz.	1874"	Ma
2 lb. 13 oz.	1614	8
2 lb. 12 oz.	1712	16
2 lb. 10 oz.	1612	9
2 lb. 8 oz.	16"	Poter
2 lb. 4 oz.	1594"	Mon
2 lb. 3 oz.	15"	
2 lb.	15"	Ma Du
MUSKIE 29 lb. 12 oz.	45"	Pail Apr
28 lb. 4 oz.	47"	Di
25 lb. 5 oz.	45"	DK-
20 lb. 9 oz.	421/2	Die
16 lb. 12 oz.	40"	Da
*20 lb. 10 o		
NORTHER	N PIKE	Di
15 lb. 10 oz		Di
16 lb. 9 oz.	38"	Di
14 lb. 9 oz.	41"	D
14 lb.	40"	Say 8
14 lb.	37	Bu
13 lb. 6 oz.		D
13 lb. 4½ o		D
13 lb. 3 oz.		D
12 lb. 12 oz		E
12 lb. 2 oz.		E
12 lb. 1 oz.	-ENE	
11 lb. 12 oz	LANCE OF THE PARTY	1 0
11 lb. 12 oz	1020	V B
11 lb. 11 oz		1
11 lb. 8 oz.		1
11 lb.	34"	Po
10 lb. 8 oz.	3214	1 31
10 lb.	35"	1 1
10 lb.	3514	, a
10 1ь.	37	- 10
PADDLEF 33 lb. 6 oz.	14 4 4	
29 lb. 12 oz		1
29 lb.	54"	14
26 lb.	54"	14
SAND STU	RGEON N	io En
SHEEPSHE 19 lb. 8 oz.	3412	1 1
18 lb. 12 oz	. 31"	-
15 lb. 2 oz.	34"	
YELLOW I	PERCH 13VC	B 42
1 lb. 6 oz.	13"	B 44
1 lb. 4 oz.	1212	10
1 lb. 2 oz.	1244	42
	10	WA L W
	10	

Name and

Richard F.

Raymo

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Randy

Dale He

Roger Fr

Thomas

Don

David H. I

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METY A

Lores

Weight

Length

	Name and Address
	Raymond Porter
	Centerville Richard F. Whitaker
	Pella
3	David Siefkas Marshalltown
ä	Randy Gunsaulus
ı	Newton Dale Hendrickson
1	Wellsburg
ı	Roger Freidrichsen Schleswig
ł	Thomas W. Reese
ı	Harian Judy Thompson
1	Bellevue, NE
۱	Don Langford Newton
ı	David H. Baumbach Red Oak
Į	Wayne A. George
ı	Marshalltown
ì	Henry Gerhard Dubuque
ı	Ed Suckow
ı	Centerville
	Doug Stange Sibley
	Jeff Hurdle
	Spirit Lake Ed Feldhacker
	Cherokee
	John Hostettler Spirit Lake
ı	60 00 1
	Doug Stange Sibley
	Carl Lilienthal
	Spirit Lake
ı	Donald Rogers Fort Dodge
ł	Carl Lilienthal
Į.	Spirit Lake Ed DeYoung
ı	Des Moines
ı	Philip Rasmussen Storm Lake
۱	Lois Hostettler
ı	Spirit Lake Rick Ziegenfuss
ı	Cedar Falls
1	Darlene Hample Jackson, MN
ı	Dave Brant
ı	Terril Richard Riley
ı	Algona
I	Don Ranney Marshalltown
ı	William Goetsch Spirit Lake
ı	Orville Towne
ı	Salix Mike DeWitt
ı	Gladbrook
١	Gary Costas Nichols
	Mark McCombs
	Sioux Rapids Erven Rowland
	Council Bluffs
	Don Drahn Postville
	Paul Cox
	Marshalltown Harold W. Anderson
	Aurelia
	Kathy Wilson Alden
	a account
	Bill Huff Salix
	Jim Portz
	Bellevue Charles Boyles
	Cedar Rapids
	Janice M. Boyles Cedar Rapids
	Count Napius
	Don Lehman
	Guttenberg
	Mary Ann Landt Monona
	Lonnie Haynes
	Omaha, NE
	George Caggiano Webster City
	Jim W. Downs
	Webster City Bill Ferns
	Spirit Lake
	Clarence Bendlin Arnolds Park
	THE PARTY OF THE P

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CE 47

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Weight	Length	Where Caught	Date	Name and Address
1 lb. 2 oz.	1234	Spirit Lake	1-4	Bill Bern
1 lb. 1 oz.	121/2"	Dickinson County Spirit Lake	7-14	Spirit Lake Melvin Jenser
l lb. l oz.	12"	Dickinson County Spirit Lake	4-10	Everly Dennis A. Robert
		Dickinson County	0.00	Dicken
1 lb. 1/2 oz.	12"	Spirit Lake Dickinson County	4-10	James Nielsen Arnolds Parl
l lb.	13"	West Okoboji Dickinson County	7-4	Sid Gustafson
lb.	12"	Spirit Lake	4-12	Primgha Mark Reynold
1 lb.	111/2"	Dickinson County West Okoboji	4-1	Ruthver Dennis A. Robert
		Dickinson County		Dicken
l lb.	12"	West Okoboji Dickinson County	4-1	Dennis A. Roberts Dickens
AUGER 1 lb. 15 oz.	25"	Missouri River	10-14	Dick Nettleton
4 lb.		Woodbury County		Sioux Cit
	211/2"	Mississippi River Clayton County	4-8	Donald Duchen Beaver, Penr
3 lb. 8 oz.	21/4	Mississippi River Muscatine County	11-5	Harry R. Kardu Muscatin
3 lb. 7 oz.	221/8"	Mississippi River	4-4	Thomas C. Maa
3 lb. 5¾ oz.	2134	Jackson County Mississippi River	8-31	Pete Oberbroeckling
3 lb. 1 oz.	21"	Clayton County Mississippi River	5-20	Luxemburg Ruth Mortland
		Clayton County	(T)(T)	Cedar Rapid
3 lb.	20"	Mississippi River Clayton County	4-13	Chris Rop Cedar Rapid
2 lb. 12 oz.	1914	Mississippi River	11-20	Dave Jense
2 lb. 12 oz.	20"	Jackson County Mississippi River	10-12	Mt. Verno Harry Kardu
2 lb. 9 oz.	1994"	Muscatine County Mississippi River	4-8	Muscatine Chris Rope
	1574	Clayton County	4-0	Cedar Rapids
Ib.	25"	Des Moines River	3-17	Jim Ahren
3 lb. 8 oz.	24"	Humboldt County Cedar River	4-28	Clarior Mike Heber
TROUT (BR		Floyd County	1-20	Charles City
lb. 7 oz.	14 V16"	Big Paint Creek	4-29	Ted Wilson
ROUT (BR	OWN)	Allamakee County		Waterloo
3 lb. 12 oz.	27	Buck Creek Clayton County	4-22	Mervin Breimor Guttenberg
3 lb. 8 oz.	261/2"	Maquoketa River	6-17	Jeff Fontana
7 lb. 14 oz.	25"	Clayton County Turkey River	5-8	Cedar Rapids Larry Johnson
lb. 4 oz.	23"	Clayton County Maquoketa River	5-8	Waterlox Lloyd Thompson, Jr
		Delaware County		Boone
3 lb. 14¾ oz.	23"	Elk Creek Delaware County	4-14	Kenneth Pfile Hiawath
3 lb. 9 oz.	2234	Sny Magill Clayton County	5-28	Gene W. Coon, Sr East Moline, II
3 lb. 9 oz.	24"	Joy Springs	12-26	Mike Kennedy
3 lb. 8 oz.	25"	Clayton County Coldwater Creek	8-16	Cedar Rapids Margaret Carte
1b. 12 oz.	100000	Winneshiek County		Marshalltown
0411 NO. 1	221/2	Trout Run Winnishiek County	5-24	Mike Johnson Mason City
1 lb. 8½ oz.	20"	Spring Branch Delaware County	12-8	Jay Iversor Cedar Rapids
1b. 61/2 oz.	2138	Bear Creek	5-5	Mike Crane
1b. 6 oz.	191/2"	Allamakee County Schechtman's Branch	7-3	Cedar Rapids Steve Pelley
lb.	2014	Delaware County Spring Creek	5-24	Marior William D. Craf
		Mitchell County	870000	Bristow
3 lb. 12 oz.	1914	Swiss Valley Dubuque County	5-13	Allen L. Bures Dubuque
3 lb. 4 oz.	2044	Swiss Valley	4-6	James Lamme
3 lb. 2 oz.	1914"	Dubuque County Wapsipinicon River	5-13	Dubuque Robert E. Reede
lb. 2 oz.	1812	Mitchell County Sny Magill	4-21	Northwood Steve Pelley
		Clayton County		Marior
lb. l oz.	1812	Swiss Valley Dubuque County	3-31	Roger Ruder Dubuque
ROUT (RA	INBOW)	Brush Creek	5-17	Robert W. Monagher
0 lb. 12 oz.	SAME.	Jackson County		Camanche
	26"	Turkey River Clayton County	9-11	W. C. Fentor Elkader
10 lb. 2 oz.	301/2	Coldwater Creek Winneshiek County	5-28	Terry Hulsebus Carrol
1b. 1 oz.	281/2"	Patterson Creek	6-2	Richard H. Jones
3 lb. 12 oz.	281/2"	Allamakee County Big Paint Creek	5-20	Decoral Daniel Corrigar
3 lb. 8 oz.	24"	Allamakee County Bear Creek		Cedar Rapids Duane R. Clark
O UZ		Fayette County	8-12	Shell Rock
	3078	Lower French Allamakee County	4-27	Larry Gage Lansing
3 lb. 6 oz.	200000000	Turkey River	5-16	Marty Trepp
3 lb. 6 oz. 3 lb.	2814			Eagle Grove
		Clayton County Fountain Spring	4-14	
3 lb. 7 lb. 10½ oz.	26"	Fountain Spring Delaware County		Ray Payne Wyoming
3 lb. 7 lb. 10½ oz. 3 lb. 14 oz.	26" 27"	Fountain Spring Delaware County Patterson Creek Allamakee County	4-22	Ray Payne Wyoming Shawn T. Kelly Charles City
3 lb. 7 lb. 10½ oz.	26"	Fountain Spring Delaware County Patterson Creek		Ray Payne Wyoming Shawn T. Kelly

Weight	Length	Where Caught	Date	Name and Address
6 lb. 6 oz.	24"	Turtle Creek	5-4	Conklin Hansen
6 lb. 6 oz.	24"	Mitchell County Buck Creek	5-12	Mason City Gary Campbell
6 lb. 5 oz.	2434	Clayton County Sny Magill	6-24	Davenport Louise Emily Quinn
6 lb. 4 oz.	24"	Clayton County Private Area	12-28	Davenport Dick McBride
6 lb. 1 oz.	241/8"	Allamakee County French Creek	4-20	Marshalltown Dick Jelinek
5 lb.	23"	Allamakee County French Creek	5-12	Downers Grove, IL Don Bleich
4 lb. 13 oz.	2012"	Allamakee County Spring Creek	5-24	Hampton Richard Ross
4 lb. 9 oz.	21"	Mitchell County North Bear	5-23	Greene Marjorie Jerrell
4 lb. 5 oz.	20"	Winneshiek County Coldwater Creek	4-5	Mason City Jeff Ernst
4 lb. 4 oz.	181/2"	Winneshiek County Waterloo Creek	5-4	New Hampton Raymond Spauer
4 lb. 2 oz.	2012"	Allamakee County		Dorchester
		Big Mill Creek Jackson County	5-28	Dan Hayes Bettendorf
3 lb. 8 oz.	20"	Bailey's Ford Delaware County	4-13	Corey D. Holladay Cedar Rapids
3 lb. 1 oz.	1612"	Big Mill Creek Jackson County	5-20	Kim Martin Strunk Bettendorf
WALLEYE	2014/	C. 1 - P	10.0	Water P. Property
11 lb. 9 oz.	301/2"	Cedar River Bremer County	10-6	Willis E. Dengler Denver
11 lb. 8 oz.	301/2"	Cedar River Black Hawk County	4-14	Robert V. Piper Cedar Falls
11 lb.	29"	East Okoboji Dickinson County	12-23	Dennis Stoltenberg Lake Park
10 lb. 15 oz.	30"	Spirit Lake Dickinson County	10-27	Doug Stange Sibley
10 lb. 13 oz.	30"	West Okoboji Dickinson County	10-17	Jim Taylor Spencer
10 lb. 8 oz.	29"	Spirit Lake Dickinson County	12-27	Garry Culbertson Estherville
10 lb. 2 oz.	30"	Spirit Lake Dickinson County	10-20	Alvin E. Akin Spirit Lake
10 lb. 2 oz.	29"	West Okoboji	11-24	Bob Bendlin
10 lb. 2 oz.	2914"	Dickinson County West Okoboji	11-25	Spencer Jim Taylor
9 lb. 12 oz.	29"	Dickinson County West Okoboji	11-2	Spencer Alex Thelen
9 lb. 10 oz.	29"	Dickinson County West Okoboji	12-29	Estherville Joe E. Shuck
9 lb. 8 oz.	29"	Dickinson County Spirit Lake	10-24	Arnolds Park Alvin E. Akin
9 lb. 3 oz.	29"	Dickinson County Spirit Lake	12-24	Spirit Lake Frank Hinshaw
9 lb. 2 oz.	31"	Dickinson County Spirit Lake	10-26	Spirit Lake Harvey V. Larson
9 lb. 2 oz.	29"	Dickinson County West Okoboji	5-20	Lone Rock Alan Riemenschneider
9 lb. 1 oz.	2814"	Dickinson County Spirit Lake	10-27	Spirit Lake Bob Bendlin
9 lb.	2914	Dickinson County Spirit Lake	10-22	Spencer Alvin E. Akin
8 lb. 14 oz.	2914	Dickinson County West Okoboii	5-15	Spirit Lake Orv Belken
8 lb. 14 oz.	28"	Dickinson County West Okoboji	10-19	Spencer Bob Bendlin
8 lb. 14 oz.	28"	Dickinson County	0.000000000	Spencer
		Mississippi River Dubuque County	10-13	Mary Remakel Dubuque
8 lb. 10 oz.	27	West Okoboji Dickinson County	5-26	John W. Kuiper Fort Dodge
8 lb. 10 oz.	27"	Spirit Lake Dickinson County	12-21	David Nielsen Arnolds Park
8 lb. 8 oz.	28"	West Okoboji Dickinson County	10-29	Don Schoer Sioux Rapids
8 lb. 8 oz.	271/2	West Okoboji Dickinson County	11-17	Sue L. Yeakel Story City
8 lb. 7 oz.	271/2"	Spirit Lake Dickinson County	10-24	Doug Stange Sibley
8 lb. 6 oz.	271/2	Lake Rathbun Appanoose County	9-1	Floyd Hundley Cedar Falls
8 lb. 6 oz.	271/2	Spirit Lake Dickinson County	11-25	Roger Hough Algona
8 lb. 5 oz.	28"	West Okoboji Dickinson County	11-8	Don Hasselhoff Cherokee
8 lb. 4 oz.	271/2	West Okoboji Dickinson County	11-15	Jim Nielsen Arnolds Park
8 lb. 4 oz.	28"	Spirit Lake Dickinson County	5-18	Doug Stange Sibley
8 lb. 4 oz.	27"	Spirit Lake Dickinson County	10-31	Lloyd Strand Spirit Lake
8 lb. 3 oz.	271/2"	West Okoboji Dickinson County	1-10	Jim Meyerdirk Milford
8 lb. 3 oz.	27	Spirit Lake Dickinson County	10-19	Arlo Van Kley Doon
8 lb. 2 oz.	2812"	West Okoboji	5-31	Clarence Bendlin
8 lb. 2 oz.	29"	Dickinson County Spirit Lake	4-28	Arnolds Park Merle Smith
8 lb. 1 oz.	31"	Dickinson County West Okoboji	7-29	Humboldt Sam Reed
8 lb.	251%	Dickinson County Des Moines River	11-11	W. Covina, CA Rick Barach
8 lb.	27"	Polk County Spirit Lake	11-11	Des Moines Roger Hough
8 lb.	27"	Dickinson County Storm Lake	6-12	Algona Al Jordahl
		Buena Vista County		Larrabee
New State Re	ecord			9

PECANS WHICH GROW IN THE NORTH

by R. Douglas Campbell and John H. Gordon, Jr.



Doug Campbell examines the winter buds of a northern pecan tree at his Niagaraon-the-Lake, Ontario, residence. Pecans have shown good hardiness at this location for the past 8 years.

ALTHOUGH MANY PEOPLE recognize the pecan as a tree of the South. relatively few are aware that it is also a tree of the North. Today an interested explorer can find native stands of pecan along the Missouri River in north-central Missouri and along the Mississippi River near Dubuque, Iowa. The early settlers reported finding pecans along the Ohio River as far north as Pittsburgh, Pennsylvania. Many of these trees have fallen to the lumberman's axe. However, there are still a few scattered trees of native pecan as far north as southern Wisconsin.

The way in which the pecan species became distributed throughout the North American Continent is one of the most fascinating studies of natural history. Examination of fossil remains in the southern States indicates that the pecan probably originated in areas of northern Texas and southern Oklahoma. Prior to the 18th century, the American Indians were primarily responsible for the substantial increase in the growing range of the pecan. In the south-central areas of the U.S.A. the pecan was a

staple component of the fires, and Indian diet. The nuts were lave an inarly travel easy to collect, highly ien the Inc nutritious and could be kept for extended periods in the vicin of time ... an important istes, they consideration in the the bigge pre-refrigerator era. An an est-shelled store of pecans was good use in thos insurance against hard tin lentary cra during the months of the thin-shell when other sources of for derable at were scarce. Moreover, thadan tribe Indians of the South trade ly increase the pecans with the North & of the pe Indians for other goods si gh their h as furs, flint, tobacco or e tion and o a good pipe. It is believed lies great that when the Indians we ral quality travelling, they planted pell sinteres nuts in the vicinity of their the word of campsites to provide an approx "grubstakes" for their futu e Indian w descendants. Since the food which Mississippi and its dozen ked out of of tributaries were the s tascinati canoe-highways of the the Indians Indians, the Mighty River some favo provided the inroads for I is in which spread of pecan growing stablished hundreds, possibly thous ly limes an of miles of waterway cou more than Paint yourself a picture o ling cerem occasional fleets of dugo Which wer canoes, of hastily construshorelands campsites along the banl sisippi sys the Mighty River, of chall Inficently a tribesmen gathered aroul Inshingly h the dancing flames of In the mo



ent of them res, and in that picture e nuts we were ve an instant history of highly a rly travels of the pecan. could be Wen the Indians planted ded periods the vicinity of their important ites, they preferred to n the in he biggest and the era. Anni st-shelled selections s was good se in those days of inst hard the intary cracking tools, a of the thin-shelled nut was a urces of the erable attraction. Thus Moreover: Jian tribes not only South trase increased the growing th the None of the pecan but also, ier goods h their haphazard bacco or on and planting t is believed as, greatly improved the Indians was all quality of their favorite planted it is interesting to note inity of the e word pecan comes n approximate rendition for their fill Indian word "paccan" Since the od which has to be d its doze and out of a hard shell. vere the fascinating to observe ys of the 11 e Indians must have fighty River ome favored stopover nroads for in which they an growing ablished campsites ssibly thous times and consequently aterway colore than just a few nut a picture 11 1g ceremonies. Pecan ets of dug to thich were planted in the stily const norelands of the ng the base sippi system prospered ver, of chan ficently and grew into hered arous shingly huge trees . . . n the more northern

areas. Several of these extensive nut groves still exist in all their primitive glory for the observation and inspiration of modern man. These groves offer the promise of adapting the pecan to much more northern climates and are a treasured footnote in our history.

The Northern Pecan is Born Again

Several members of the Northern Nut Growers Association explored the northern reaches of the Mississippi in October, 1978 to see if any of the original, native pecans still exist in that area. The members investigated the adjacent floodplains of the northern Mississippi by car and the islands by canoe, from Burlington to Dubuque. Their efforts were well rewarded. Although the remaining pecan trees are widely scattered, hundreds of pounds of the extra hardy, northern pecan nuts were harvested . . . from trees capable of surviving temperatures as low as

Although these nuts are somewhat smaller in size than the papershell pecans of their southern cousins, there is a major compensation . . . the tasty kernels are some of the sweetest known to exist anywhere.

Now that the pecan hunters know where a number of northern pecan groves exist, not only are they assured of finding more nuts but also they can extend their exploratory searches further northward. The native pecan generally is found on the floodplains of rivers not far above the water level. Several promising areas in the State of Wisconsin already have been marked for exploration in the fall of 1979 and future years. Occasional trees of pecan already have been discovered in Wisconsin such as an 80 year old specimen at Mount Hope. These recent discoveries assure that pecans may be grown in most all of the northern States and even the more southern parts of Canada.

The pecan is a uniquely
North American tree. Nothing
quite like it has been
discovered anywhere else in
the world. There used to be
numerous native groves in the

and obtaining not seeds, contact N
SEED PROGRAM
H. Gordon Jr., 13
Boulevard, North
New York 14120.

United States, but the pressures of intensive farming and the flooding caused by the Mississippi River dams came very close to wiping out this hardiest strain of the pecan.

The Northern Nut Growers Association

The Northern Nut Growers Association was formed in 1910 as a non-profit, service organization to promote interest in the growing of nuts and also to promote research in the development of superior kinds of nut trees for the North. The Association currently has over 2100 members in the United States, Canada, Mexico and many countries throughout the world. The Association has identified more than a dozen species and hybrids of nut trees which are of interest for producing quality nuts and/or timber in the northern temperate zone. For information on the association and obtaining northern pecan seeds, contact NNGA PECAN SEED PROGRAM, Mr. John H. Gordon Jr., 1385 Campbell Boulevard, North Tonawanda,

PECAN

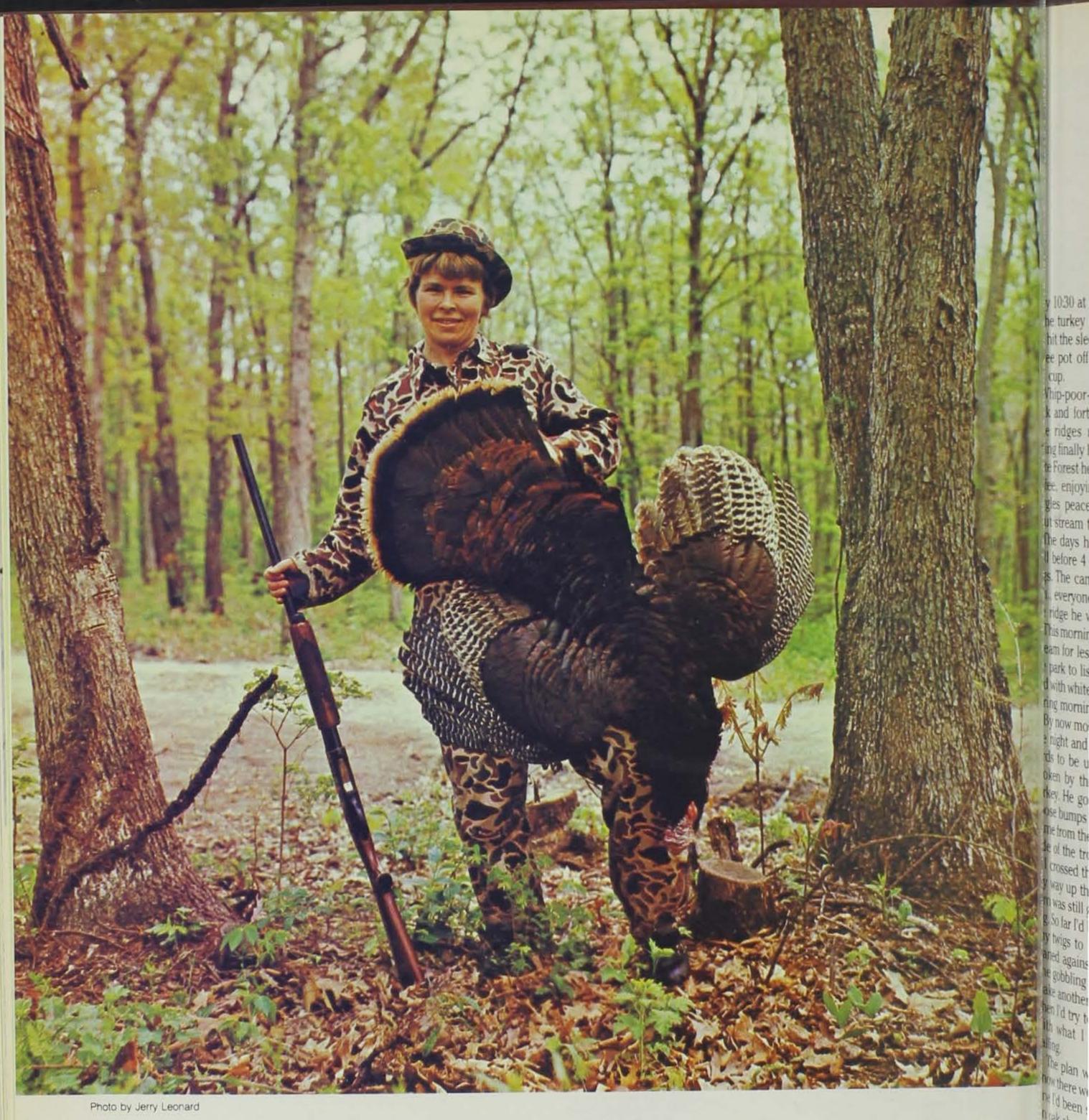


Photo by Jerry Leonard

With Turkeys, It Isn't the Shot that Counts

rak about s don't lik de had just

Ne around

By Lowell Washburn Courtesy Mason City Globe-Gazette 10:30 at night, things are pretty quiet turkey camp, and everyone but me it the sleeping bags. I pull the charred pot off the campfire and pour one up.

and forth across the steep oak and ridges reminding each other that g finally has come to the Yellow River Forest here in northeast lowa. I sip the e, enjoying the bird music as water es peacefully over the rocks in the stream that runs beside the tents.

e days here have been long, starting before 4 a.m. with tea and scrambled The camp is always empty before 5 everyone having headed out toward idge he wants to hunt.

is morning I followed the winding trout m for less than a mile and stopped in eark to listen. The black sky was studvith white stars that promised a perfect g morning was coming.

now most of the owls had shut up for hight and it was too early for the song to be up. Suddenly the silence was en by the booming gobble of a tomey. He gobbled again, and I could feel e bumps rising on my skin. The sound from the top of the ridge on the other of the trout stream.

rossed the stream and started picking vay up the ridge. A half hour later, the was still gobbling and I was still climb-so far I'd been lucky and hadn't broken twigs to tip him off to my presence. I ed against a tree to catch my breath, gobbling was close now, and if I could e another 50 yards I'd dig in and hide.

1 I'd try to call the tom out of the tree what I hoped would be seductive

ne plan was great, except that I didn't w there were two toms on that ridge, the I'd been stalking and the one sitting in ak about 60 feet to the left of me. Turdon't like to fly before dawn, but this had just about enough of watching me e around beneath him. Twigs began to ik and snap as his great wings thrashed he left the tree. I was too startled to of before the turkey was gone, and the er gobbler shut up knowing that someg besides him was in the woods. The jig up and I started back down the ridge. ow I must admit that the flushing gobhad startled me a little, but a couple of s to the south in the same woods, one of

the other camp members was just plain having the wits scared out of him.

He was moving down an old logging trail toward a gobbling tom, and when he came around the bend in the trail he saw three turkeys silhouetted against the sky in a tree about 70 yards down the line. He pulled out his call, eased off the road and started to sit down.

What he didn't know was that he was about to sit on a white-tail doe that was stretched out flat hoping he'd walk on by. The doe, thinking she was about to be eaten, exploded from beneath the hunter. She didn't try to avoid any brush, but plowed through anything in her way, setting up a terrible racket. The deer ran right under the turkeys and spooked them out of the tree. But that was OK because the guy said that by then, he was too scared to operate the box call anyway.

A guy from Spirit Lake, who was camped near us, said he forgot his turkey permit at home. His wife was sending it special delivery to the nearest town, but it wouldn't arrive until the next day. The hunter decided he'd better not take his gun into the woods without his permit, so he just went to look around.

He struck a couple of yelps on his call and a tom gobbled back. In a few moments the turkey appeared in a clearing 60 yards from him and began to display the typical "Thanksgiving" pose. The display stopped and the tom walked up to within 30 feet of the unarmed hunter. When I last talked to the guy, he had received his license, hunted for two days and hadn't seen another turkey.

These experiences are typical of turkey hunting, and it seems that turkey hunting stories are full of the words "if" and "almost."

But all the luck hasn't been with the turkeys this week, and we do have one bird in camp. A guy named Scutt bagged him, and he is rightfully proud of his trophy. He is a skilled hunter and called two gobblers to within 15 yards of where he was hidden at the base of a tree. All that showed of the turkey was his big blue and white wattled head as he cautiously peered over a mossy log, and he never heard the shot that killed him.

Turkey hunting is a solitary sport, one man and one bird. While I enjoy bird hunting and waterfowling with my friends, there is a closeness to nature to be felt when you're in the woods alone that can't be experienced when you're with a group.

While leaning against a deadfall, camouflaged from head to toe, wildlife can be viewed at close hand in a way you never dreamed possible.

This morning was a good example. A few yards behind me a ruffed grouse drummed from atop a log, while a few feet in front of me a squirrel rummaged through the leaves on the forest floor. A yellow warbler jumped up onto the double-barred shotgun cradled across my knees. He took a couple hops toward me, then hopped back the other way. He pecked at the front shotgun bead and fluttered to the ground.

Everything tensed and stopped moving as the black shadow of a hunting goshawk moved silently across the clearing. The hawk was gone and the birds began to move again. Still, no one knew that I was there, unless maybe the turkeys did.

The forest is alive with wild flowers now. They come in all colors from snow white to deep purple. I thought I knew something about plant and bird identification when I came into the woods. But now I can see that I'll be going through books for a week when I get home trying to put names on what I've seen here.

I throw the last couple of swallows of coffee into the red-orange coals of the dying campfire. The coffee hisses as it turns to steam. I'll be back in the woods again tomorrow morning, looking for that wily bird.

I remember the words of Richard Bishop, a seasoned turkey hunter: "Their hearing is keen, their eyesight extraordinary: And if they could smell, you'd never get one."

Yes, I think the turkey is too crafty for me, and I know that I probably won't fire my gun on this trip. But with turkeys, it's being there that counts.

Photo by Ken Formanek



Warden's Diary

By Rex Emerson

The light cut through the darkness of the night like a knife and swept across a small field, searching for the reflecting eyes of a deer. A local resident called the county law center. Two game wardens happened to be riding together that night and when they received the call on their radio they proceeded to the area immediately. Fortunately they were only ten minutes away but, except for the farmer calling in, they could have very well missed seeing this poacher at work.

As they topped a hill they caught the glimpse of a spotlight shining from a car on the next hill. The light was out in about one second and they felt sure the spotlighter had been spooked by their headlights. The poachers were not wanting to take a chance that another car out there at 2:00 a.m. might be the law.

The two officers had worked together many times over the year, so each understood how the other worked and thought, and not much conversation was necessary at a time like this. When the spotlight was observed the officer on the passenger side said, "Punch it!" and the driver pressed the accelerator to the floor. For a few seconds they were closing the gap between the cars. The red flashing light was turned on and the officer driving said, "Damn" when it was obvious they were going to "rabbit"! Sure enough the chase was on. Both officers probably thought of their wives and children at home, but didn't mention it out load. The officer on the passenger side grabbed the radio mike, reported their location and told of their pursuit. A deputy sheriff responded

that he was twelve miles away, but would proceed to the area.

The officer driving, a good pursuit driver, had been on many chases, and hated every one of them. Sooner or later someone is going to get killed on one of these chases. But he knew he had to do it. If you didn't pursue, other poachers would soon find out that all they needed to do when they saw an officer was to run.

The chase this night was on gravel and dirt roads. It was over hills and around sharp corners. The poacher knew the roads very well. Just over the top of one hill was a T-road and the officers almost lost it on that one. The second officer continued reporting their location on the radio. The chase went on for about ten miles, and four stop sign violations. By this time the officers were right on the back bumper of the vehicle they were chasing. The license number of the pursued vehicle was reported on the radio. The poacher knew a square corner was coming up in a quarter of a mile, and he knew what was likely to happen to him when he tried to slow down to make the corner. The officer probably wouldn't have given him a shove, but then maybe he would. We will never know because the pursued vehicle gave it up and stopped.

The officers' problems were not over yet. Their location was quickly reported. The officers then approached the violator's vehicle from both sides with flashlights held in their left hands so their gun hands would be free, and the lights were shined into the eyes of

the three occupants in the pickup truck. You never know what kind of person you are dealing with out there in the middle of the night. Approaching the vehicle and ordering them out only took a few seconds. As the officers opened the doors on each side, one of the occupants came out of each side, fighting.

The deputy sheriff said when he arrived on the scene there was an officer on each side of the pickup with his knee in the middle of the violator's back, putting the handcuffs on him. Before the deputy could assist them, they had already finished with the first two men and were quickly removing the third man from the pickup and putting the handcuffs on him.

In the pickup were a high powered rifle and a pistol, with plenty of ammunition for both, also the hand held spotlight that had started all of this. I never could understand why a hand held spotlight was such a popular Christmas present. The only ones I have ever seen used were in violation of the law.

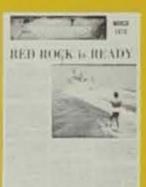
The three men were taken to jail. It was learned that two of them were convicted felons. One had been in prison half of his life. There will be a charge of hunting at night with an artificial light filed on each one. The driver also received citations for the four stop signs he had ignored, and the loaded high powered rifle. The pistol will be taken to the county attorney and the two felons may get some more prison time for possessing it. Someone will surely be in deep trouble for having that pistol without a permit.

As the two game wardens were ready to split up and go to their individual homes the conversation went like this: "Did you know within five miles of where our chase ended tonight a city officer was shot and killed a few years ago?"

The other officer replied, "Yeah, I know. Say 'hello' to the wife and kids for me."

LOOKIN' BACK

Ten Years Ago



the Iowa Conservationist ran an article on the new Lake Red Rock in Marion County. Although at the time there were approxi-

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mately 8,900 acres in the conservation pool, the water area and depth were expected to decrease as the reservoir silted in. By 1980 the total area was not much different, but the depth especially in the upper end was much shallower.

Twenty Years Ago



the magazine featured a story on spring migration along the Missouri River bottoms. Although the author saw plenty of

waterfowl by the end of the article all he could talk about was the incredible mud in the bottoms which he compared to high-grade molasses.

There was mention of a new invention - a razor blade made of paper which you use once and Who want throw away. We wonder what hap- growing or pened to that new breakthrough.

Thirty Years Ago



the Conservationist presented lest of the Iowa's first reating m Teacher's Con- come and servation Camp to be held in poredom Springbrook Putdoors State Park in the "surpri

Guthrie County. In years to come. ake your a modern education center would State Park be constructed at Springbrook.

A plan to increase Lake Mac- noting all bride in Johnson County from 138 hings are acres to 935 was announced with Pues to fi 1953 as a target for completion.

Back cover-It's very difficult to find pheasants where there is no cover for them.

IOWA CONSERVATIONIST MARCH 1980

Jassrom Corner

by Bob Rye
ADMINISTRATOR, CONSERVATION EDUCATION CENTER

EMPLOYEES, friends and udents complain the loudest March. That long, boring onth between winter and bring. March is a restless me of year for all. Tied in the rasp of winter, one looks head for the sun and arm weather.

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It seems so long to humans ecause Christmas holidays, unting seasons and winter ports are over and long gone Easter break, mushroom cking and spring planting eem like they will never rrive. The weather is npredictable. If you wear a inter coat it turns warm; pring coat and it chills: aincoat and it doesn't rain - r so it seems.

Even nature complains with aw March storms as it tries to ecide whether to keep that thite blanket or allow the reen one to come forth. In ature, the month emonstrates a similar npatience among animals, lants, birds, and insects tho want to begin new rowing cycles.

The ice storms come and o, leaving broken limbs and lazed roads behind. The sun hines brightly for a short me, then is covered for the est of the day. I find nature reating me with this similar ome and go feeling.

I use nature to "treat" this oredom. I take a walk utdoors. I am eager to find he "surprises" out there. ake your walk outdoors in a state Park or wildlife area, eep your eyes and ears alert toting all the changes in hings around you. The first lues to future growth appear and start their changes to pring and summer.

Do you see new items, such as rocks in fields or open places? The earth is also in a time of changing rom one way to another. It is reezing and thawing and this

can push rocks, dead stumps or posts from the ground.

The ground is very wet from the rain and melting snow. Springs are flowing with renewed vigor. In Springbrook State Park, near one of these springs, skunk cabbage can be found (see photo) this is one of the earliest bloomers found working its way through the snow and giving off its faint odor.

To the careful observer, thousands of buds covering the otherwise naked limbs are seen. Cattails are changing from their fuzzy look to fresh green shoots. Hepatica, one of the forest's early bloomers, are starting their show.

Furbearers, like the mink, raccoon, and muskrat are vigorously seeking to establish territories and claim mates to restart a reproductive cycle. The fox has already had its young, which are seeking the mother's body heat.

At the top of the dead elm you spot a large nest where a female great horned owl watches you carefully as she sets motionless on the nest. Her young were born earlier in the year as she is the first to nest among the wild animals.

lowa also has, for the observer, a wealth of waterfowl at this time of year. A variety of ducks can be watched and listened to. Geese are often seen flying high in a wedge-shaped flock, signalling that the forthcoming change of spring is near.

Look in the mud around the ponds and streams; find the tracks and maybe a frog, turtle or salamander. Watch for the robins, cocoons or turkeys.

Even though March is a long month for most of us and we feel many changes are against us, nature is taking advantage of this time to let you know of her presence.

WILDFLOWER OF THE MONTH

SKUNK CABBAGE

(Symplocarpus foetidus) by Dean M. Roosa and Sylvan T. Runkel



oto by Randall

IN EASTERN IOWA during late winter, an annual mystery occurs in the wet woodlands and marshes — a mystery so compelling that a Luther College professor has devoted many hours during the past eight years studying it. The mysterious event is the initiation of the growth of the flower of Skunk Cabbage which occurs when snow is yet on the ground and may occur when snow-covered.

The plant generates its own heat and maintains a nearly constant temperature of 72°F as much as 63° above the temperature of the surrounding air and soil, and may continue to do so for up to two weeks. It is often found in a small puddle of water - surrounded by frozen earth. The plant is fairly common near Luther College and the professor is Dr. Roger Knudson, who has designed special equipment to measure the plant's temperature and oxygen consumption and has begun to unravel its mysterious life-cycle. He has described* how the roots are contractile and may shorten in unison, pulling the stem into the ground. A mature plant has hundreds of pencil-sized, wrinkled roots which anchor an underground stem which annually sends up two inflorescenses and six to eight leaves. Individual plants may be incredibly old, rivaling or exceeding the age of the nearby old oaks.

The flower of this remarkable plant is a horn-shaped maroon spike with an opening on one side which discloses a knobby spadix with bright yellow anthers. The fetid odor, from

which the plant gets its common name, attracts certain species of flies which crawl over the flower, transferring pollen and thus accomplishing fertilization. After the flower decays, leaving a small pile of seeds on the wet ground, the leaves rapidly elongate and achieve a height of two feet by June, when they appear somewhat like cabbage leaves.

In Iowa, the plant is known from Allamakee, Fayette, Linn, Muscatine and Winneshiek counties.

Skunk Cabbage, like others in the Arum or Calla family, contains within its tissues a compound called Calcium oxalate. If eaten or merely tasted, it causes an extremely painful burning sensation and may also cause affected tissues to swell and may lead to other harmful problems. Indians and pioneers used it for medicinal purposes including treatment for headache, asthma, bruises, bleeding from an open wound and even for toothache and other disorders. In spite of the skunky odor and burning taste, it was also used for food by the Indians — but not until it had been specially treated by thorough drying and subsequent thorough cooking. This plant, at some stages in its life cycle, may be confused with the poisonous Indian Poke.

Should your late-winter wanderings take you to the wooded haunts of the Skunk Cabbage, we hope you can appreciate the quiet mystery you are observing.

*Read 'Plants in Heat', by Dr. Knudson, in the March, 1979 Natural History Magazine.

