

ARCHERY WORLD

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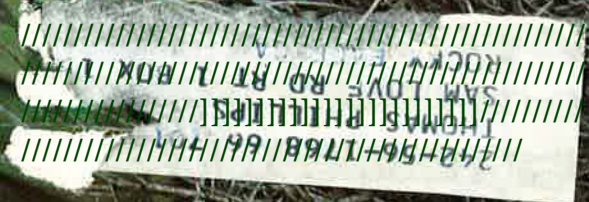
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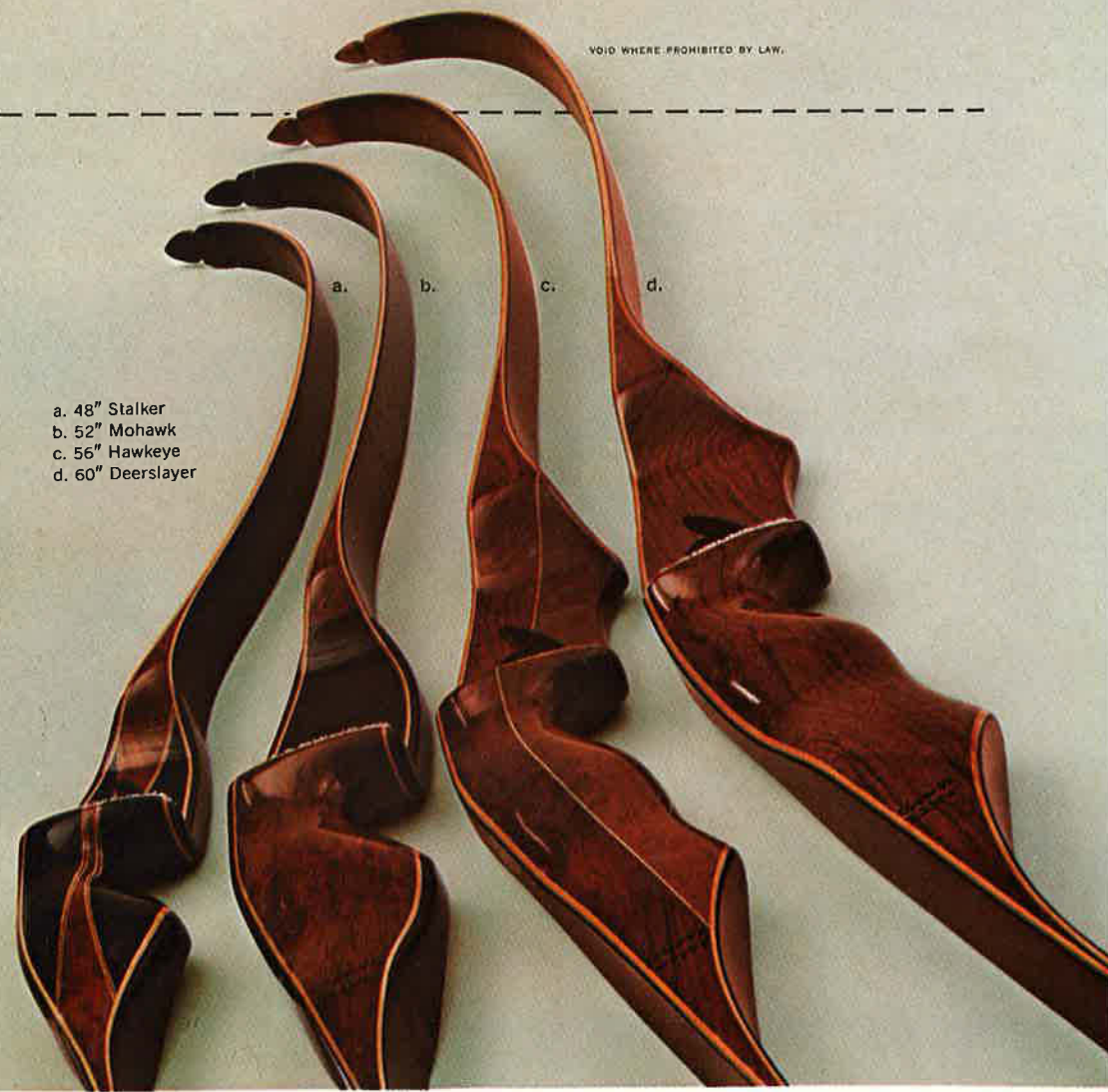
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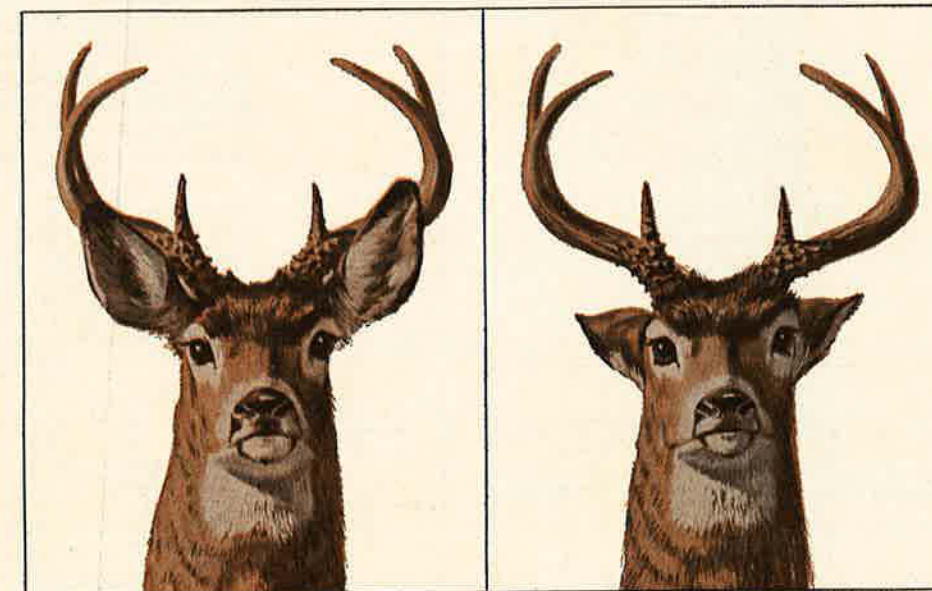


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ARCHERY WORLD

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the National Archery Association

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The U. S. team at the 26th World Archery Championships in York, England, in late July will be John Williams, Cranesville, Pa., Larry Smith, Glen Rock, Pa., Ed Eliason, Seattle, Joe Thornton, Tahlequah, Okla., Doreen Wilber, Jefferson, Iowa, Vicki Cook, Minneapolis, Nancy Myrick, Pompano Beach, Fla., and Linda Myers, York, Pa.

It is with regret that we inform you of the death of Lovell Tice, Huntsville, Ala. Lovell, associate technical editor of Archery World, died in early June after a lengthy illness.

SPECIAL FEATURES

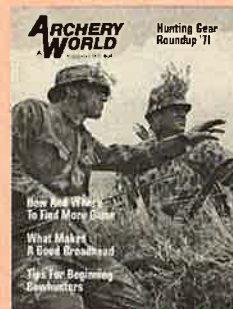
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Comes the autumn and a bowman begins prowling again. There's gear to check, game to scout, more shooting practice, and a host of other exciting hunting-oriented activities. All leading up to that first day in the field, when you're outfitted and camouflaged to the hilt, as are the two Wyoming hunters in our cover photo taken by Charles J. Farmer.

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Archery World welcomes your comments on any topic relative to archery. Address your letters to Write On, Archery World, 534 N. Broadway, Milwaukee, Wisconsin 53202.

STRING WALKING QUESTION

Is there or isn't there a restriction on string walking by barebow shooters? I've seen statements in other archery publications which said it wasn't allowed. But your report of the AAC recommendations didn't list any such proposal.

George Hanson
Albany, New York

• *String walking is allowed. The first AAC report contained two clauses which specified one anchor point only and a draw style of one finger over and two under the nock. However, it was quickly pointed out that this was a matter of style, not equipment, and the AAC immediately withdrew those clauses. That's why they weren't printed in Archery World.*

DID EMOTION RULE?

The string puller, release or hook—call it what you will—is as simple, surely, as the Turkish thumb ring. Only emotion, not reason, would banish it from competition. If the principal point at issue is that too many archers are now able to shoot perfect scores, the answer cannot be to prohibit the use of a simple device which enables them better to hit the mark. If they become bored over making 300s easily and often, the logical and acceptable course should be to devise a new design of target which will challenge the best skills long into the future.

Paul Klopsteg

ABIDE BY THE RULES

I think archery is being put in its proper perspective now that we have the American Archery Council. Let's all abide by their rules and regulations and support them.

As for releases, if we are going to allow the "thing," then let's go all the way and allow a bow arm support (to hold the bow still) and a draw holder

(so we don't need any human parts involved). Absurd maybe, but where is the halting point! With a release we are shooting a vertical crossbow. What sport can you name where a rookie can step in and start at the top within a few months?

Archery, is supposed to be a challenge according to human abilities. Let's not make it a mechanical nightmare.

Ralph L. Shope Jr.
State College, Pa.

SUPPORTS AAC

The officers and members of our club hail the decision of the AAC recommendations as a milestone in archery. We extend our congratulations to all those organizations and thank them for taking a positive stand together on the equipment and rules for all archers.

Al Brown, Chairman
Claudia Kauzlaric, Secretary
Wildlife Archers of WCW
Bothell, Wash.

OBJECTIONS TO AAC

I object to the recommendations of the AAC. The compound bow . . . is a hand held and hand drawn bow with no mechanical release. Its source of power lies in the laminated limbs as does any other bow. . . . This is not a mechanical assist to drawing, as . . . one must actually exert a pull equal to the number of pounds at which it is rated. The draw weights, however, just follow a different sequence from the conventional bow. . . .

I object also to the ruling on release aids for similar reasons of progress.

I sincerely hope that any new item for archers will in the future be passed on before it hits the market and the archer has futilely spent his money—and that the decision on the compound bow, the giant step in the state of the art, will be reconsidered.

Emery J. Loisselle
Burlington, Mass.

OBJECTS TO THE AAC

The associations are killing archery. It's time they wise up and listen to the majority, not just a certain few. I love archery. I've spent too much time and money learning how to shoot to sit back and let the associations run over me like this.

Larry A. Brown
Nottingham, Pa.

SPOTS TOO SMALL NOW

In regard to the tested five-spot targets, I agree that one for each arrow is good. But to make the spot two inches instead of three is foolish and selfish.

One of the things wrong with archery today is that the people who participate cannot keep up with the changes that the top shooters bring about. Every

time there is a change it spreads the scores and dampens interest. I'm not saying archery should be made easier, but it should be standardized to bring scores closer together, not further apart.

Gene Mack
Cyclone, Pa.

MAYBE RIFLE TARGETS

I have read the latest issue of Archery World and enjoyed it very much.

Concerning the tournaments, since 300 scores are becoming more common, why not use a system similar to the 5V used by the National Rifle Association? I have attended many NRA shoots, and have yet to see a perfect V score.

Richard Reasoner
Vashon, Washington

AN EDGE FOR EVERYONE?

Everyone wants the edge, but fails to realize what it can mean when everyone has the edge. The edge is fine in any sport, and is needed for the basic sport, if it is earned and so deserved. But to have the edge given easily to everyone leaves a bit to be desired.

I do not think anyone can truthfully project mass perfects into a mass growth or mass public acceptance of the sport of archery. I believe the people that started archery and quit because they could not shoot high scores, or win, will quit again when they still find they cannot win even with triggers. We should let individual performances stand out, and respect the people who have stayed for the sport, competition and personal satisfaction of developing skill of mind and body.

Not everybody competes at major league level in other sports. Until now, we have been trying to cheaply buy numbers in archery rather than to give beginners something real and worthy to shoot for. Or, for that matter, even to shoot the sport and enjoy oneself and to heck with score.

Phil Grable
Lansing, Mich.

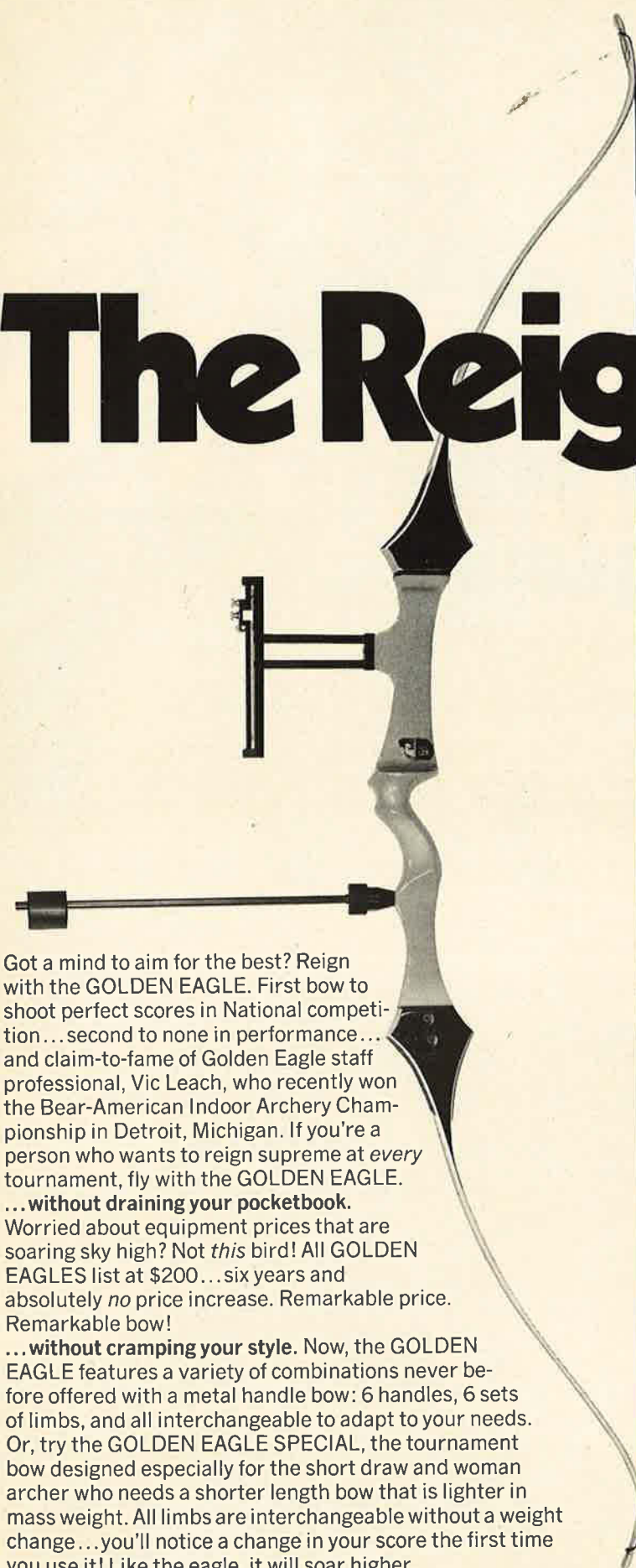
QUESTION OF INTERPRETATION

I am very concerned over the second item in the standard equipment rules proposal that came out of the AAC recommendations at Detroit, which reads: "Items of equipment not mentioned or covered in this article are consequently not allowed to be used. . . ."

I have adopted aluminum foil vanes for my arrows. I better get permission to use them . . . they aren't described. The rules require loops at both ends of a bow string, but mine don't have any. One of my bows has four tips, but I can have only two. An arrow must have a nock . . . but mine instead are nockless and fit into a nock I have taped to my bowstring.

Gil Frey
Gaithersburg, Md.

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You'll have better hunting success if you go where the game lives, in the brushy semi-open areas where food, cover and rest places are near

Hunt the edges for more game

by Judd Cooney

I CAN REMEMBER back in southwestern Minnesota when I was a sophomore in high school and had just taken up the sport of bowhunting. In those days I had a 45-pound bow and a fine set of glass arrows and some of the best whitetail habitat in the country in which to use them.

The deer herd at that time was building rapidly along the Rock River. Come late October and November, the state conservation department would open the deer season for bow and arrow only.

We did most of our hunting along the river bottoms, which harbored the main portion of the deer herd. At that time the river bottom consisted of patches of dense hardwoods, patches of alfalfa fields, lush corn fields and small irregular areas of completely open pastureland.

This patchwork of different cover was great for hunting, because we could use two or three bowhunters to drive the deer from one timbered area to another and try to ambush them on the trails coming out of each area. Many a time, I had several nice bucks move past me and provide some exciting moments; but alas, I wasn't too deadly with a bow and arrow in those days.

There was much discussion among local hunters as to just why the deer were adapting and increasing so rapidly in this flat farming country and

at the same time appeared to be diminishing and getting harder to come by in the northern Minnesota woods, which had for years been among the top whitetail deer areas in the U.S.

This adaptation phenomenon — with big game moving into farmland and narrow river bottoms — was not only happening in Minnesota but in many of the states that previously had only a limited number of deer within their borders.

As bowhunters, we can be thankful for this little happening of nature, because it has opened up many, many areas to bowhunting that previously had no game in them to hunt, other than an occasional rabbit or two.

The "edge effect" seemed to have created game where before there was none. In reality what happened in these areas was that game animals were migrating into the areas and because of ideal habitat conditions — sunlit areas for brush, shrubs and grass to grow, cover nearby and probably easy access to water, too — the herds were reproducing at a more rapid rate.

If we go back in history, we can see how this change took place and how it can continue to benefit us as outdoorsmen in the future.

Before the white man came along, great numbers of birds and animals were basically open country, prairie and foothills dwellers. Animals such as the elk, mountain sheep, mule deer and whitetail were most often found in fairly open country where Mother Nature had provided them with an

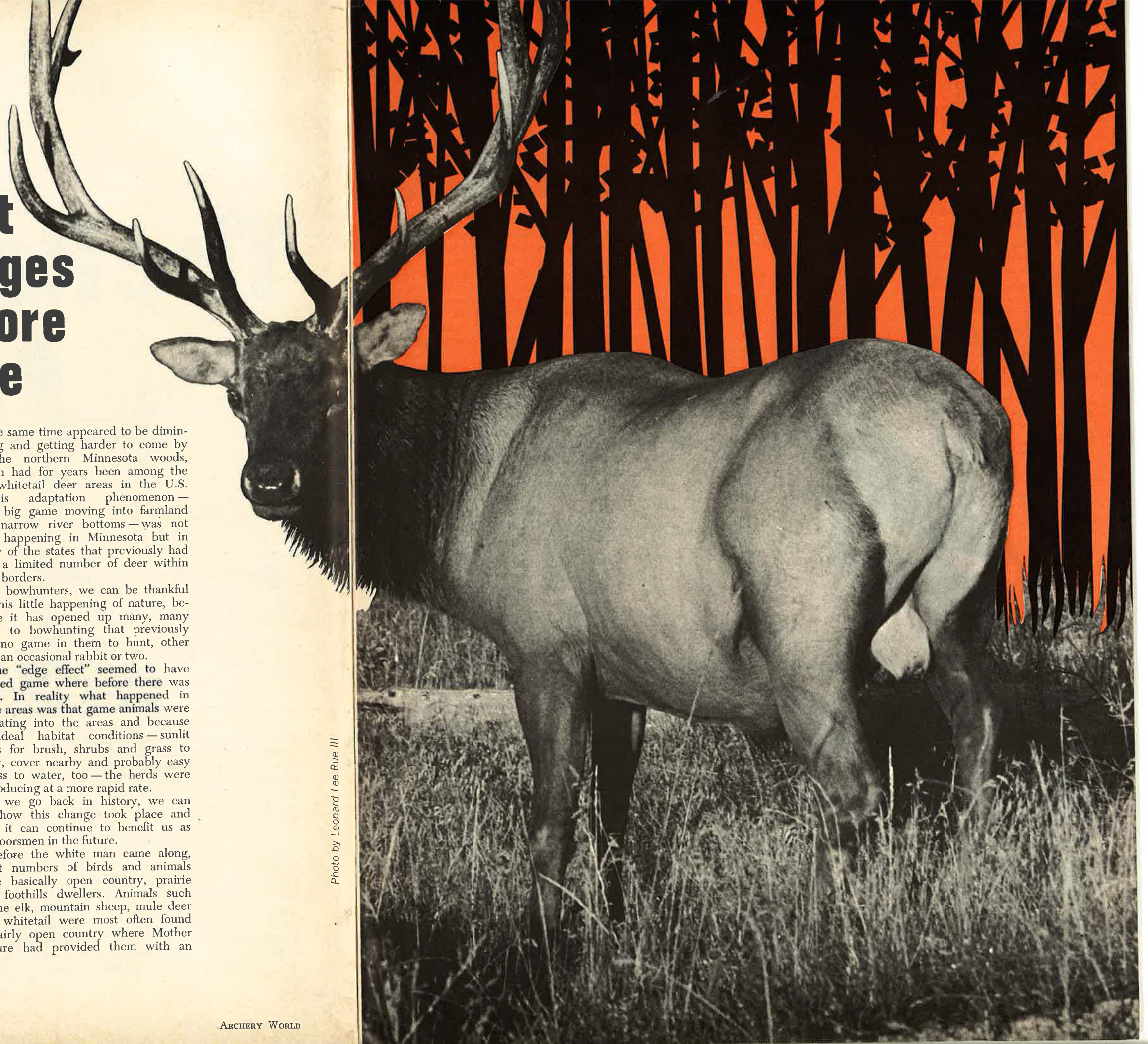


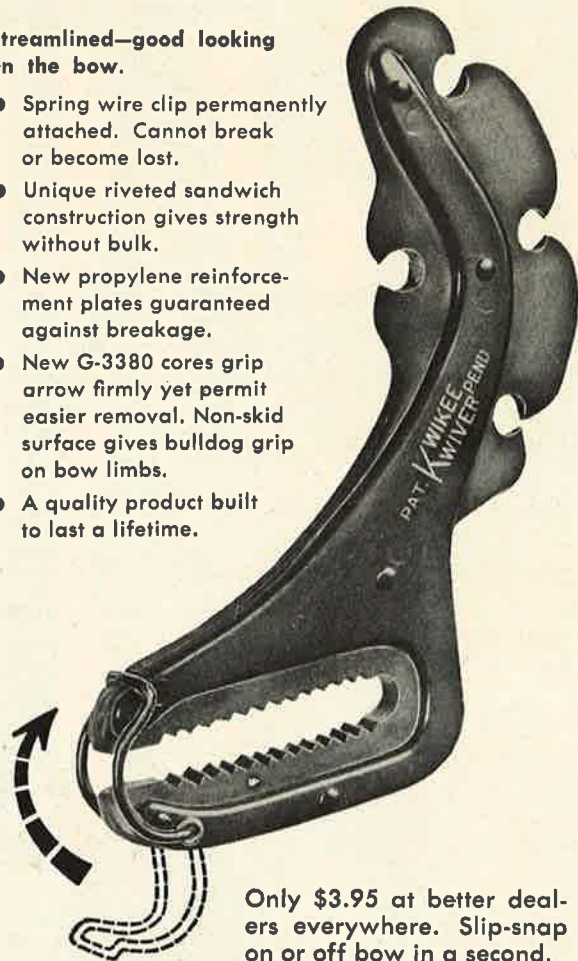
Photo by Leonard Lee Rue III

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● Edge areas grow and change. But when they're right, game abounds. Photo by Richard Wright.



"edge effect" of her own. Deer in the north were almost nonexistent until the land was logged and brush had a chance to grow. The deep, dense hardwood stands of the East and Midwest and the pine and spruce forests of the far West were still untouched by the axe and saw of civilization and were much too dense to provide enough food under their canopy of leaves and branches to support very many game animals. As man moved westward he logged and cleared areas for his farms and fields. He changed this once deep, dark, uninhabited forest to a patchwork of clearings, brush patches, fields and pastures. This provided game animals and birds with an area of plentiful forage, plants, browse, and good cover within easy reach.

As was the case with northern Minnesota, the deer multiplied rapidly and hunting was great. Then however, the new growth in the cleared areas began to mature and the clearings and cut-over areas began to fill with larger trees and brush which in turn crowded out the smaller food species and browse plants of the whitetail. The vast numbers of animals now had less food per deer and many simply starved to death.

A few hardier deer migrated to areas where there had been but few deer before and multiplied into huge herds. These deer in turn migrated further and further south into the farm lands which provided the ideal situation of food and shelter. Small, dense, wooded and brushy areas were surrounded by ideal feed such as various field crops and plenty of the smaller browse plants on which deer thrive. Now there isn't a state in the United States that doesn't have a deer population.

Deer weren't the only ones to benefit from this edge effect that man created. Pheasants, cottontails, turkeys, elk, bear and many other game animals, large or small as well as most of the game birds benefitted directly from this phenomenon.

I have tried to show you the broad effect that the edge effect has on you as a bowhunter. Just how can you use this to benefit you directly when you are actually out after say, deer or cottontails?



First of all, if you were to pick an area to hunt you would be wise to pick an area that exhibits a good bit of the edge effect. You will find far more game in the fringes around good feeding areas and open fields than you will in the deep, dark forest. So if you have to move through big stuff to get to the edges you want, keep alert but don't waste too much time there. As I said earlier, game animals like to move out into the open where they can use their eyesight, hearing and smell to warn them while they are feeding. They will move from the heavy wooded areas to the lesser wooded areas and open fields during the evening to feed. At daylight, the procedure will be reversed. Armed with this knowledge, you will be able to better place your blind or have a better idea which direction would be best to hunt in a given area.

As a test several years ago, two hunting partners and I drove a small swampy patch of pines and alders for five consecutive days. Sometimes we drove it morning and night, but never very early or very late.

The astounding thing was that we saw deer every time we went through. A close look at the geography of the place gives a good explanation. The area ran along a creek bed for about a quarter mile, but at no place was wider than 250 yards. Scrub oak ridges ran along both sides of the valley, dwindling to an open alder and pine clearing at the south end.

This little patch was surrounded by 40 acres of jackpine slashing. The tops and scrap had been piled in rows, or left where it fell. A tongue of timber reached within a couple hundred yards of the northern corner of the swamp, a semi-brushy ridge approached it from the east, and an open, mature jackpine stand was within good bow range on the western side.

Deer funneled into—and out through—these natural approachways. But they wouldn't move out unless pushed hard. And since there were only three of us to stand and drive, we did little more than watch them go out the trail we weren't on. Easy rifle shots, but nothing for the bow.

The part I like best about the whole

thing is that no one but us hunted that patch during the five days. It was surrounded by roads, too open around the edges, too small. Or so everyone else thought.

If you are going into an area that is unfamiliar to you, get a map and try to tie your hunting into a place that shows up as a patchwork of openings, brushy areas and dense stands of timber. Look for ridge tops, draws, swamp edges, fire lanes or food patches developed by conservation departments. Your chances of finding game in areas such as this are much better than in an area that is completely open or one that is all dense timber.

Several years ago, I was hunting an area in northern Colorado with a friend of mine for both deer and elk. We left home before daylight, and as we drove to the area I gave him a good verbal description of the lay of the land. The lower edge of the valley was all broken country with small quakie patches, brush edged clearings and open meadows, and the upper part of the valley was heavy, green spruce and pine.

We separated just at daylight and hunted separately all day. That evening when we met at the car, my companion said he had not seen a single deer or elk all day. I had, during the early morning hours, seen upwards of thirty muleys and one nice bunch of elk. That afternoon, during the heat of the day, I had jumped four nice bulls and two buck deer and during the evening had seen quite a few does and fawns and small bucks. In further discussion it was brought out that my fellow bowhunter had spent all the early morning hours in the dark timber and had spent the mid-day hours hunting the open areas when he got skunked in the timber. I had hunted the open, brushy areas until about 9:00 a.m. and then moved into the heavy timber, where I knew the game would be bedded down and hunted this until about 4:30 p.m. and then back to the open and brushy areas to catch the game moving out to feed in the evening.

This episode points out the value of knowing the game habits and of hunting an area that lets you take full advantage of the edge effect.

In this case we were after deer and elk in Colorado, but the same principles apply to cottontails in Kansas, pheasants in Iowa or whitetail deer in Pennsylvania. Find an area that has good edge effect and you will find the game. Put good hunting practices to use and don't waste time hunting areas where the game isn't. Give yourself the edge by hunting the edge.

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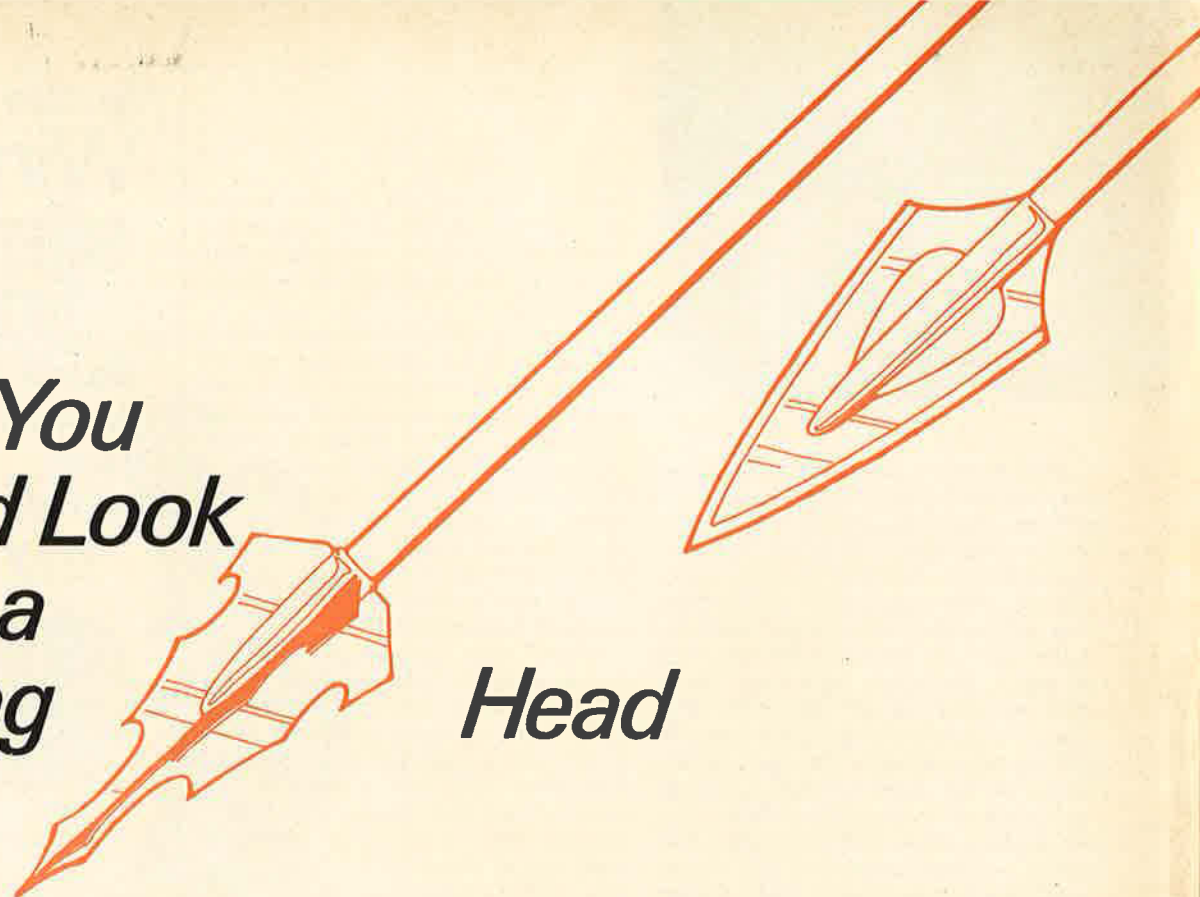
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What You Should Look For In a Hunting Head



Broadheads must give plenty of penetration. Here are the results of a test Dutch made on bone and concrete.

by H. R. "Dutch" Wambold

THROUGH THE YEARS of big and small game bowhunting, this bowhunter, like many others, tried various designs of hunting heads. Some performed well, while others proved poorly designed for proper flight performance. But in addition to good flight characteristics, a hunting head should inflict maximum cutting action, and must be well constructed to withstand

a fair degree of punishment.

After many years of trial and error, I believe that a hunting head must be a full four-bladed design for maximum cutting action. This gives the ultimate result the bowhunter needs to drop his game—quick, profuse hemorrhage and plenty of penetration.

Such a four-bladed hunting head must be constructed of a grade of steel that will permit sharpening to ultra keen edges, and be hard enough to hold that edge. It must be constructed in a manner that will permit sharpening with a minimum of extra equipment, and allow such sharpening to be done in the field as well as at home.

How much punishment should a good hunting head be able to withstand? Why? Bone structure in big game animals can present a tough material through which a hunting head may have to penetrate. A rib hit dead center on a bull moose may stop what could have been a deadly vital hit, but won't be if the hunting head breaks down upon impact with bone.

A British Columbia bull moose that measured well in the 60-inch spread class is carrying a reminder of such an example. The stalk was perfect, placing me within 30 some odd yards of the big bull. The arrow headed for paydirt behind the massive front shoulder; but the resounding crack upon hitting told me I struck bone.

Tracking the bull, we found the arrow some 200 yards along the trail. The hunting head had actually doubled from rear to tip in the bone!

The bull had shucked the arrow in short distance, and without doubt was none the worse for the incident other than a sore rib for a short while. A glass shaft had been used, and the 60-pound bow had delivered such power that the shaft split just behind the ferrule of the hunting head! Chances of cutting the rib and continuing into heart-lung mass would have been highly possible had the head held up.

Just what type construction must a good hunting head feature? In addition to cutting blades of proper steel, the ferrule should be of metal, and of the same material as the cutting blades. The four blades must be attached to the ferrule in proper alignment, and by means of a process that assures one unit in strength.

Plastic ferrules do not provide the structural strength needed. In addition, the method of attaching cutting blades to any plastic-type ferrule never can be in true alignment—to the degree where a dozen heads of this type will shoot the same.

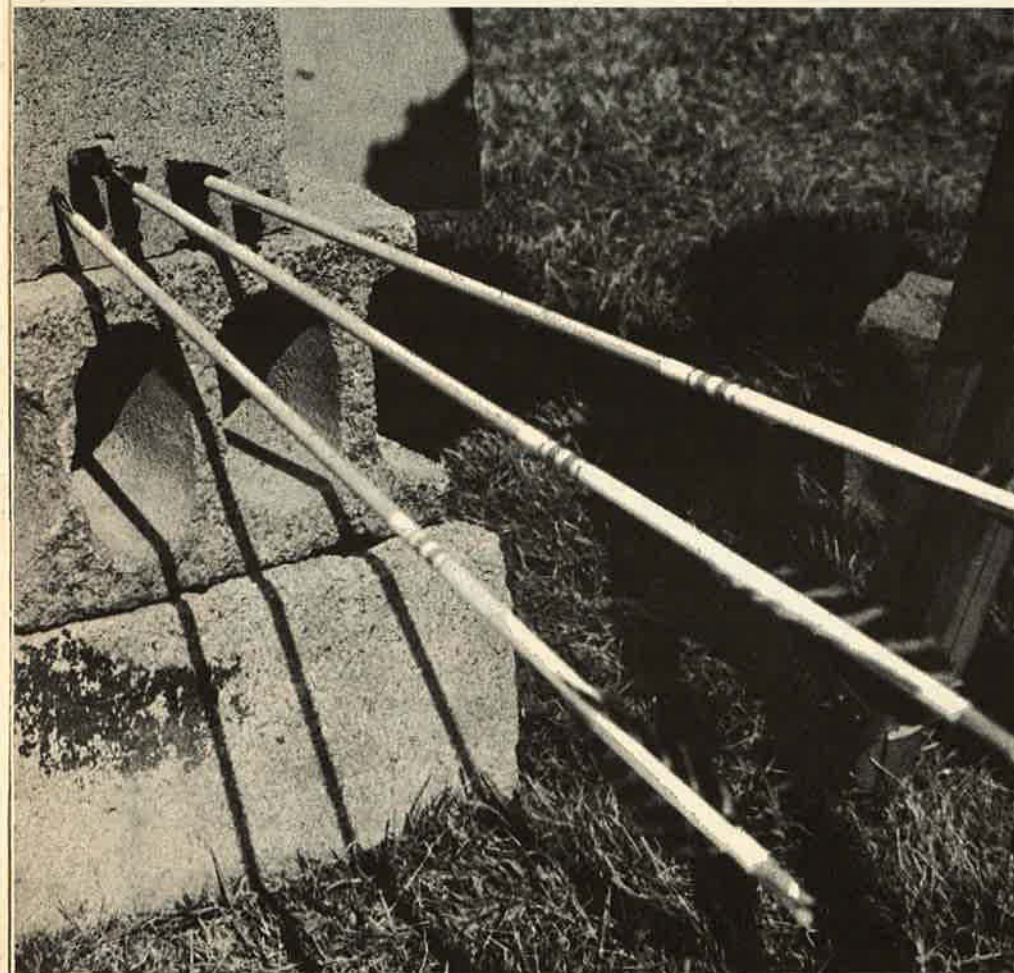
To prove a point, I bowhunted for wild boar a few years ago at which

time I noticed that a companion was carrying plastic ferrule hunting heads. We both had identical hits on our pigs. Front shoulder, too far front to miss the shoulder bone. My buddy's boar required chasing and another arrow into the heart to down. My boar dropped within 60 yards—dead.

We compared hits when field dressing the pigs. His hunting head had parted upon impact in the shoulder bone. The cutting edges were imbedded less than half way. The arrow was found when chasing the boar. The plastic ferrule was still on the end of the shaft. My boar had a neat hole through the shoulder bone, both upper lung lobes torn, and the head was firmly imbedded, still intact, in the opposite rib cage!

During a discussion about strong construction of hunting heads with Elmer Jernigan while on a whitetail bowhunt on Fox Island, I mentioned the idea of conducting punishment tests on various types of heads. Jernigan manufactures the Copperhead line of hunting heads, and my experience with the Copperhead Magnum hunting head on various species of

• The two design heads that survived the cement block punishment test showed one point rolled enough to make it inaccurate, and the other with rolled point but intact enough to still shoot. In the cement block test, photo below, the Bear and Copperhead remained intact, while the third head parted in the block and the glass shafting behind it split.



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big game has been successful.

One outstanding feature about the two Copperhead designs is their sharpening ease. Instead of applying a taper or chamfer to both sides of the cutting edge of each blade as normally is done, the Copperhead has this taper applied to one side only.

The angle of this taper is such that the hunting head can be placed on the surface of a sharpening stone permitting two cutting edges to be honed at the same time. The head is merely rotated 180 degrees, which places the other two cutting edges into contact with the sharpening stone.

Full four-bladed hunting heads which incorporate the conventional double tapered cutting edges present a problem in sharpening at the tip

where the four blades converge. This usually results in a hunting head that has little, if any, proper sharpening permissible from the tip back to such a point where a small stone can be worked along the inner sides of the joining four blades.

Performance in the field on various big game animals from moose to cougar proved that the single taper does work as effectively as a double taper. The easy means of sharpening while afield is a boon to any bowhunter.

Possibly the best example of how sharp and penetrative this single-edge design actually is could be illustrated best by an arrow that was shot at a 400 pound black bear that was hugging the trunk of a 100-foot Douglas fir about 70 feet up. The bear, hunched

into a huge clump that looked much like a king-size medicine ball, represented a target mass about full arrow length or better in depth.

Having no means of picking a vital spot, all I could do was hold for the center of that dark blob.

The Copperhead sped true, zipped through the full body of that bear, cutting the main aorta at its junction at the top of the heart.

The arrow was retrieved, and the outfitter was amazed at how it had cut through an animal that carries an anatomy of heavy layers of fat under a tough hide, plus heavy muscling.

The performance of that arrow encouraged a gabfest about weird designs. One design which features a circular cutting ring nested around

the cutting blades had been used by a bowhunter the outfitter handled. He shot it into a bear at about 60 feet, a perfect hit just behind the front shoulder. The arrow stopped at five inches penetration—with the circular ring clogged with hair and fat!

Another design, which was to work like a scissor when striking, bounced off the hide of a whitetail during a bowhunt in the Catskills of New York state. It had not opened as intended.

Large heads of the type that require venting to cut down on weight usually wobble or wind plane, and almost all whistle in flight. Ultra-slim needle-nosed designs will have no structural strength, and seldom are capable of cutting a coyote's rib without folding.

Good heads are made of material like 1060 carbon steel, and heat treated to glass hardness. The Copperhead is double drawn and tempered to a tough hardness on the Rockwell "C" scale of 54-55 springtemper. This provides utmost strength, but will still take a sharp cutting edge that will not roll over at contact with flesh or bone.

On the blanking die in which each set of Copperhead cutting blades is stamped, the ferrule cut-out must exactly fit metal to metal with the ferrule.

For a test, I procured steer shoulder bones from a hunting friend who operates a meat processing plant. The shoulder bones were trimmed of all meat and placed in a freezer to keep them from drying. This I felt would keep the bone in a state similar to that of a live animal.

Using a Bear take-down bow of 55 pounds, I worked at a range of 20 yards, both to deliver maximum impact and assure best accuracy.

Various design hunting heads were used on micro-flite shafting. Shot into shoulder bone, the results were interesting. Plastic ferrule types disintegrated upon impact with the bone. Several three-bladed type heads, which featured the blade-to-ferrule pressed assembly, peeled like a banana when hitting the bone.

Two hunting heads withstood the bone punishment. After six consecutive shots of the same arrow into shoulder bone, the Bear razorhead and the Copperhead Magnum finally broke down.

No other design held up for more than two shots into the bone, and penetration to any degree through the bone was confined to the two designs mentioned.

Next we set up a concrete building block for the target. The two design heads that held up the best were added to the Bear and Copperhead Magnum for the final and most punishing test.

Results? The Bear Razorhead and Copperhead Magnum remained in-

tact when shot into the concrete block. The Bear tip was rolled to a degree, and would not have given any degree of true flight performance if shot again. The Copperhead Magnum, although cutting blades were out of true 90 degree alignment, could have been shot again, but flight performance would have been only fair.

The other two designs? One broke into three pieces, and the micro-flite shaft to which it had been attached was split half the length from shock of impact in the concrete block! The other head completely doubled over, with the tip folded back against the ferrule. The micro-flite shafting also burst just behind the ferrule. Shafting on both the Bear and Copperhead arrows was still intact, for both heads had entered the block surface, thereby transmitting some of the force into the target surface.

You ask what is the point of shooting into a concrete block? No animal bone will ever present this type of resistance. True, but such an extreme does prove a point—if any hunting head can survive such punishment, it surely will withstand any body structure found in any big game animal!

Although most direct hits into shoulder bone on big game will result in stoppage of penetration through and into vital areas, it gives added confidence to the bowhunter to know his head will hold up.

The use of a hunting head of strong structural design, made of a grade of steel that holds a sharp edge, and assembled in a manner that assures good and consistent flight performance are the only type which the demanding bowhunter should consider.

Although some of you may disagree about the merit, if any, resulting from such tests, or whether it proved anything, personally, I feel a lot more confident when I draw an arrow at a big game animal knowing that the business end of my hunting arrow will withstand anything the animal has to offer. Then all I have to do is put it where it counts!



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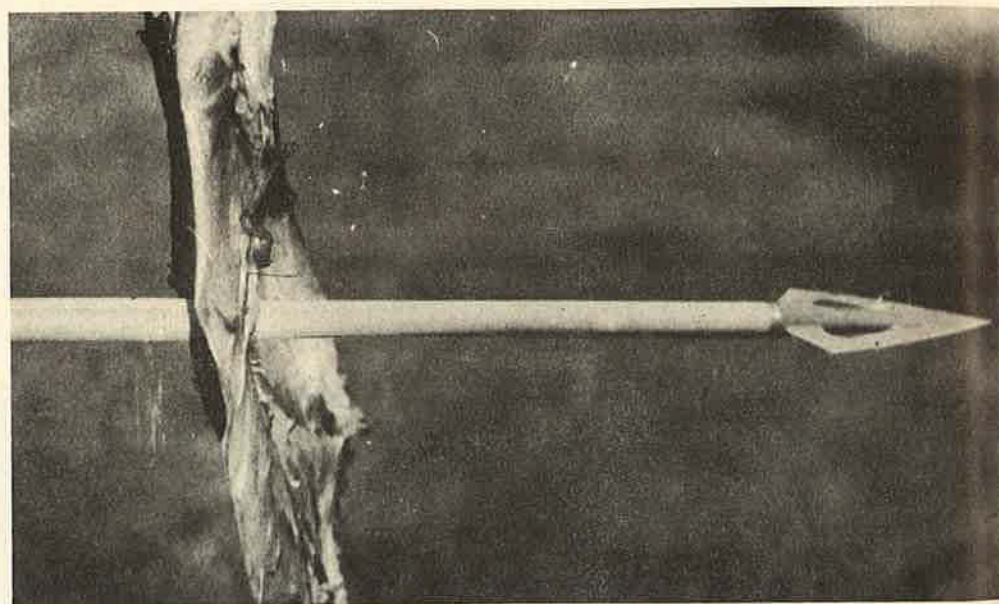
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Fistmele:
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WHAT TO TELL A GUY WHO WANTS TO START BOWHUNTING

There's a lot of difference between a bowhunter and a man afield with a bow and arrows. Here's how to make sure you're with a bowhunter.

by Tom Hanson

THERE'S A lot of difference between a man in the woods with a bow and some arrows and a bowhunter. Some people say as many as 60 percent of the people carrying bows in the woods aren't really bowhunters. They're just there with some sort of archery gear because it seemed like a pleasant thing to do for a weekend, their brother-in-law was going hunting and they wanted to tag along, or they just never were started properly.

But there's no reason for heading into the woods ill-equipped or under-equipped. Such a guy scares the bee-jebers out of knowledgeable hunting companions, and if he's unlucky enough to plunk a game animal—usually a deer, because this is when most neophytes head to the tall timber—he invariably does little more than wound the animal. And that's not needed either.

So if you are the encouraging brother-in-law, one of your buddies has said

he'd like to go along with you this fall "just to see what it's like", or your son or a boy you know wants to start bowhunting, here are some tips to make sure he's at least a rudimentary bowhunter, and not just a guy in the woods with a bow.

First, get him enthused. Enthused enough to really care about knowing what to do and then doing those things properly. Tell him how you have expanded your time in the outdoors through the extended seasons most states have for archery deer hunting. Tell him how great the weather is during the early and mid autumn when leaves begin to turn and the air has a crisp coolness. Tell him that it's just as exciting, sometimes more, to have a near-miss and watch the deer bound away with tail-waving alarm, as it is to score a kill.

Tell him that bowhunters have an advantage over firearms hunters because they're in a quiet woods with unspooked deer, there aren't hordes of red-clad guys roaming all over the scene, and you as a bowhunter are little, if any, disturbance to non-hunting people around you.

Tell him that it's a time to have a leisurely weekend of great companionship.

Tell him that during this time of year most of the campers are gone, and you can have great chunks of public land, with nary a "no hunting" sign around, all to yourself.

Then get a set of your state's archery hunting regulations from a local sports shop or archery shop, help him buy the necessary license, and begin getting him outfitted for the hunt.

Show him, first, how to determine his master eye, and whether he should shoot right or left handed. Have him extend his arms in front of him, form

a one-inch circle with thumb and index finger of each hand, and look at you. The eye you see will be his master eye, and if it's the left one, he should shoot left handed. With a right master eye, shoot right handed.

Show him a selection of good hunting bows. Explain that, since he's basically looking for a hunting bow, he should look for something in the 48 to 64-inch length. These shorter bows are lighter, easier to handle in brush.

Remember, though the shorter bows are more convenient, they also are more critical to shoot because they magnify errors in shooting form more than do longer bows. A longer bow is more stable and consistent.

Tell your future bowhunting partner, if he's an average adult male, that he ought to look at bows in the 40 to 55-pound draw weight range. Emphasize that it is more important to get a bow that he can handle well than it is to choose the heaviest bow he can pull. Try a bow. If he can draw it to a solid anchor and hold it steady for a few seconds—around five—then he can reasonably be expected to handle it well.

Point out that a too-heavy bow makes him a poorer shooter because he can't draw it fully, can't aim well, hold it steady (nor long, if the game is looking at him). Make sure he understands that a lighter bow which can be handled well is a much more efficient weapon than a big bow used poorly. After all, it's performance, not draw weight, which kills game.

Check your state's minimum draw weight laws. If your potential hunting partner is a woman or child, bows in the 30 to 40-pound range are best. But some states may have minimums of 40 pounds. Then you have a prob-



Tips To Be A Better Bowhunter

- Good bow, quiver, extra arrows
- Solid aiming stance, straight bow arm, solid anchor, firm draw arm
- Bow hand sling, finger tab
- Sharp broadheads, protected in quiver
- Camo gear (face, hands, bow, pants also camouflaged during hunt)
- Good coaching and plenty of practice
- Arrows matched to bow
- Bow you can draw and hold, comfortably



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lem, unless the beginning bowman can learn to handle a bow that meets the law.

If he, or she, is just beginning, something in the \$30 to \$60 range is best. Another good guideline is to get the best he, or you if it's your son, can afford.

Now your partner needs matching arrows. Be sure he understands the absolute importance of the word "matching". No matter how well he can handle a bow, mis-matched arrows will ruin everything. Help him pick out a dozen arrows matched to his *draw length* and *bow weight*. (You can quickly, and quite accurately, determine his draw length by placing a yardstick against his chest and having him place both hands, fingers straight, against the stick. His draw length will be close to the length his outstretched fingers reach on the stick.)

If he can afford aluminum hunting arrows, fine, because they're longer-lasting and give unbeatable performance. Glass is less expensive. Wooden arrows are cheapest, and probably best for a beginner. But get a good matched set of them. Don't buy the cheap shlock stacked in barrels; they're not hunting arrows anyway.

While you're at the arrow counter, take the time to explain and show him the differences between broadheads, field points, target points and blunts. He should realize that no one hunts medium and big game with anything but broadheads—*sharp* broadheads.

Point out that broadhead arrows kill game by cutting and hemorrhaging. One close look at field and target points should show the ridiculousness of going afield with them during hunting season. (But some people do, as you'll read later.) Explain that blunts

are strictly a small game head, where the impact is usually enough to kill.

You might suggest that your buddy get a half dozen arrows with field points which weigh the same as his broadheads and use them for beginning practice. They should weigh the same so he will be fully familiar with arrow performance at that weight.

Explain instinctive and sight shooting. You might suggest, particularly if he has done little or no bow shooting, that a simple one, two, or three-pin hunting sight could help him immeasurably, particularly since he's not familiar enough with the sport yet to adequately judge arrow performance at various distances, and isn't used to gauging distances over the point of an arrow.

Maybe one of the sights which have varied gap spacing on pin fingers for easy range finding would help a beginner. And if he uses his style, make sure he gets the sight mounted right side up, with the widest finger spacings on the upper pins.

Now he needs accessories. An arm-guard and finger tab or glove. Arm-guards obviously protect the bow arm, but they do more during hunting season—they also hold back a bulky sleeve that otherwise could catch the string and ruin a shot. A tab or glove for the drawing hand protects tender skin and helps you shoot better. (No one should experience pain when shooting, particularly a beginner. So just tell him that it hurts like hell to shoot a hunting bow without finger and arm protection, and let it go at that. He'll find out soon enough anyway.)

Point out the necessity of camo sleeves or camo sticks for the bow, camo clothes and grease for skin—

maybe a headnet if he wears glasses that could shine. And brush buttons and string silencers for a bowstring so it won't catch on twigs or twang on release.

Get at least two bowstrings—no one should get caught in the middle of a hunt with a busted bowstring and no spare—and have the dealer clamp a good nocking point on each.

He'll definitely need a small stone or file for field sharpening of broadheads. Maybe he'll want some scent to hide his presence in the woods.

Show him back quivers, bow quivers and hip/belt quivers. He can pick his own, but most guys use bow quivers because they protect arrows well and have them right out there easy to grab for a second shot, if needed. Point out that it's highly recommended broadheads on a bow quiver be covered and protected. For his sake, should he stumble or fall, and for the sake of broadhead sharpness.

Finally, buy a bowstringer—the best way to go until he's familiar with stringing, and maybe best afterward, too—and have him learn to string the bow. (Don't chuckle. Hunters(?) have been seen in the woods with bows strung backwards, and bows so powerful they couldn't unstring them.)

Now he should practice, practice, practice. From all shooting positions and elevations imaginable. Try targets, do some field roving, then some broadhead practice at game cutouts. Practice with your future partner. It's more fun this way, and you can tell him about the uniqueness of actual bowhunting.

Bowhunting is close work. Really close! The average shot is around 20 to 25 yards, plenty are made a lot closer. You try for definite killing shots because there's no shock value like with firearms hunting. And your follow-up methods are most likely quite different from anything he's known before.

As a general introduction, outline the three basic types of bowhunting—stalking, standing and organized driving. Tell him that if you and he will be in a large group, a drive may move the most game and be most successful. With small groups, standing or stalking, or a combination of both, may work best. And if he wants to hunt alone, standing is most certainly the best way for a beginning bowhunter to see and kill game.

If he, and you, prefer to try a couple hunting methods, point out to him that standing in early morning and late afternoon when the game is feeding is a good way to hunt. Stalking or drives usually work best in mid-day, when game is lying up in cover.

Finding good game areas is a science


onto itself, and more than you can reasonably be expected to outline now. If he's hunted before, he'll know this part, or should know it.

If your friend decides to take a stand along a good trail, help him set up. Suggest he measure distances from his stand to some of the most obvious shooting spots where game will appear. Walk the distance, maybe try a couple of practice arrows. And do this as soon as you get him to his stand—you've already made some disturbance, so a couple minutes more won't hurt now and it could easily mean the difference between kill and miss.

Remind him again that a broadhead kills by hemorrhaging, so it's important that he know exactly the vital spots on a game animal—and shoot at the vitals. He should try to let the animal walk past him so he has a quartering shot away.



This makes sense for two reasons. First, he'll get a clearer shot at the heart/lung area—the largest single vital unit on game. Second, there's always a certain amount of movement involved in drawing and shooting, and if the game is past him somewhat his movement will less often be detected and it will be tougher for the game to also jump the string. Make certain he realizes the importance of sharpening a broadhead that has rattled through some brush on a missed shot—and sharpening it on the spot before he does another thing.

Make sure your new hunting partner fully understands the need for patience after he's hit game. A medium or large game animal must be given plenty of time to go off and lie down and lose blood. This can vary from half an hour to five hours depending on where the game is hit. Any relatively vital hit like the heart/lung area, kidney, or one of the major arteries can be trailed after 45 minutes or an hour. Wait the longest on a gut shot deer, because the animal loses strength slower, and the broadhead needs time to work in



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Bowhunting is close work, unlike most other game hunting.

the animal. Trail leg hits immediately.

If your friend starts trailing the animal he should first mark the spot it disappeared from view. And then, if he kicks it out, he should know that it's best to stop and wait more time.

He should have studied the body hair of the game being hunted. The type of hair found can tell him where he hit the animal. He should also check other signs if he's uncertain where he hit the game. He should know how lung blood, heart blood, kidney blood differ, and how blood mixed with stomach fluids looks. He should try to find the arrow and study the blood on it. He should check on the ground close to the trail and away from it and on bushes near the trail.

At the end of all this work, he should find a fine trophy bagged in fair chase on a good hunt. And he will fully realize the value of sharp broadheads; dull broadheads could easily mean the difference between a trophy and a wounded, escaped animal.

And by this time he should know the basic safety factors of bowhunting. He should know that you don't climb trees or obstacles with exposed broadheads. He should know enough to keep broadheads away from bowstrings. He should also know his capabilities, the capabilities of the gear he's using, know the game he seeks, know his state's laws and the rules and ways of sportsmanship.

Sure, some of this information is as basic as you can get. But it's valuable information. Dutch Wambold made a few spot checks during the 1970 season, and here's what he found (and why we're printing this story):

- Twelve hunters with bow strung backwards. Nine did not know how to string their bow, and three were physically unable to do so.

- Three deer hunters using field points.

- One bowman carrying arrows four inches shorter than his draw length.

- Three hunters with only one arrow—the one they had nocked on the string.

- Only 14 of 32 carrying an extra bowstring.

- Seven hunters with only two or three spares—and these spares were stuck in their hip pocket!

- One man with a 75-pound bow which he could just barely get to half draw, and needed his entire fist to draw that far!

So, you see, it pays dividends to be well grounded in basic bowhunting skills. It pays you, me, and every other person who hunts with a bow. A person with the intention of hunting with a bow owes it to himself and every other bowhunter to be correctly outfitted, well prepared, and a sportsman. And he owes it to the game, too.

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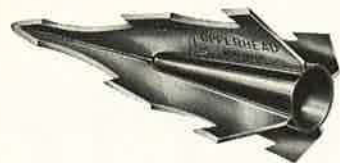
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HUNTING GEAR ROUNDUP 1971

It's that time of year again. The hunting juices start flowing and the feet get itchy for a game trail. Archery catalogs are dog-eared from thumbing. And the missed shots of last year are sure shots this year, because you know a little more about hunting and you've practiced enough to be a better shot. Hope the ol' nerves will take the pressure when your trophy steps into line for a clear shot.

To help you steady the nerves and be properly equipped, we present here some of the items introduced in 1971 which should help you become a better bowman. Remember, the old reliables are still around, too. For answers to all your questions, stop at your local archery shop or write to the manufacturers for catalogs. They will be glad to serve you; just tell them Archery World sent you.

1 HOWATT HUNTING BOW

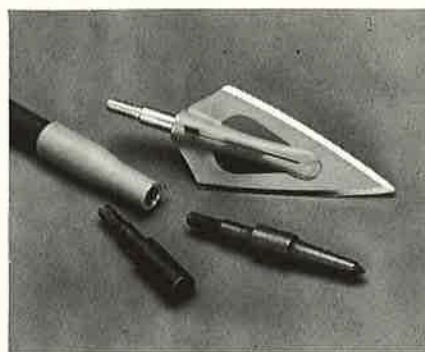
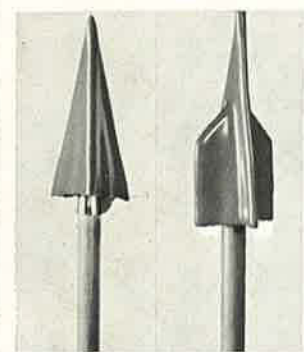
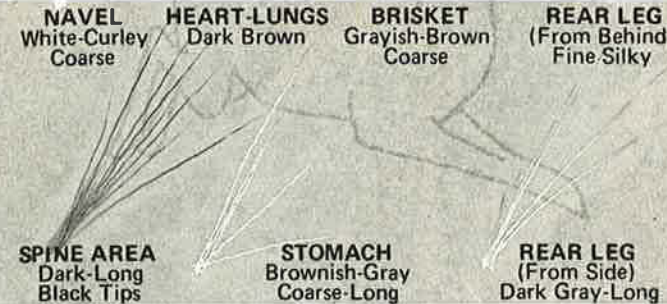
Howatt has a new bow, called the Bandito, for the economy minded hunter. Handcrafted of imported hardwood and fabricated with dark bowglass, it is 58 inches long and available in draw weights to 65 pounds. Retail for \$39.50 from all Howatt dealers. Additional information is available by writing Howatt Archery Corp., P. O. Box 2637, Yakima, Wash. 98902.

2 IRON VELVET STRING SILENCER

This string damper of nylon carpet with foam padding attaches directly to the bow tip and reduces string slap and vibration. Weighs 15 grains, die cut to fit shape of limb, self-adhesive for instant mounting. \$1.25 for a pair from New Archery Products, 107 Berrywood Dr., Marietta, Ga. 30060.

3 CUSHIONED BOW QUIVER

Designed "by a hunter, for a hunter," this quiver, called the "Sneaky Pete" is silent in the woods. Release shock is absorbed by a fork-type rubber mount which is held snugly against the bow by two O-rings.



Broadheads in the hood are inserted into a deep sponge rubber cushion. Lower grip is of neoprene, with a tapered hole for each shaft. The taper minimizes arrow slippage. Seventeen inches separate the two points of arrow contact to minimize vibration at the free end of the shaft. Weighs nine ounces, retails for about \$16 from New Archery Prod., 107 Berrywood Dr., Marietta, Ga. 30060.

4 CALCULATE HITS BY HAIR

It's tough to remember what hair from various parts of a deer looks like, so a wallet-sized card with hair from the various parts laminated to the card may help you. The manufacturer points out that 80 percent of the time the arrow or part of it is recovered after a hit. Blood on the arrow collects hair, which can aid in identifying your hit location. From there, use the correct trailing tactic, and you should have your deer. Called the DeeJay Hit Calculator, it's available for \$1 from the DeeJay Specialty Co., P. O. Box 5797, Greenfield, Wisconsin 53220.

5 BROADHEAD PROTECTION

You can't always keep sharp broadheads protected from scuffing or nicking. But now you can, with these molded soft plastic "pro-tec-to-tip" devices, which are available in three-blade and four-blade styles. Molded to fit snugly, they make broadheads safer to handle, keep them sharper for hunting. \$1 for half a dozen from Plastic-Coaters, Dept. AW, 228 Carlin Court, Hartland, Wis. 53029.

6 CONVERTIBLE POINTS FOR WOODEN ARROWS

Bear Archery Co.'s "Plus 3" Converta-Points can now be used on wooden arrow shafts as well as aluminum and glass, with credit due a device called the "WACA." An aluminum cap that fits over the end of 1 1/32" wooden shafts, it fits all three Converta-Points — broadheads, blunts or field points. Just saw the point off a wooden shaft, install the WACA with archery cement, and you're ready to go. Available at all Bear dealers.

4 good hunting companions

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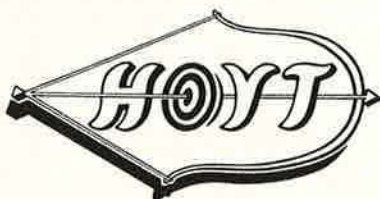
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11510 NATURAL BRIDGE ROAD, BRIDGETON, MISSOURI 63042

HUNTING GEAR ROUNDUP 1971



2



3

1 SHAKESPEARE HUNTING BOW SET

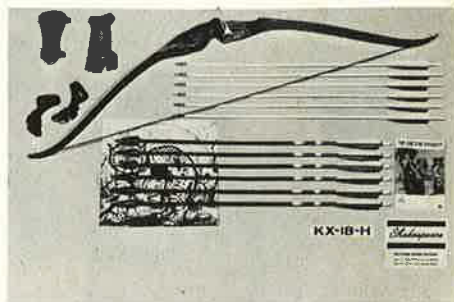
New in Shakespeare's archery line is the "Sierra" bow (X-18), a 52-inch lightweight bow which features a 4-inch sight window, top grade Imbuya handle, dark non-glare glass and is available in draw weights of 20 to 50 lbs. Bow comes with a Hunter arrow rest and dacron string. The Sierra hunting set (KX-18-H) has everything needed by the bow hunter. Set contains a new Sierra bow, a 52-inch laminate of 45-pound draw weight with strand dacron string, along with six 28-inch Port Orford cedar 4-blade hunting arrows and six matched cedar small game arrows. The set contains a quiver, shooting tab or glove, arm guard, target face and instruction booklet.

2 BROADHEAD SHARPENER

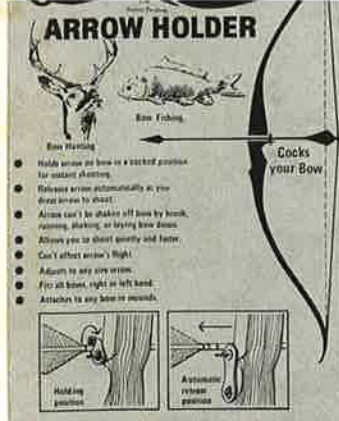
Saunders Archery Co. has a new file and wheel sharpener called the Kwik-Kill which includes a four-inch mile file and a full-size handle in which the wheel sharpeners are imbedded. Shape up the point with the file and finish it with the wheel. Retail for \$3.98 at archery shops. Or write to Saunders, Columbus, Nebraska, for further details.

3 RAIDER HUNTING BOW

Raider, a rugged new hunting bow tested on the plains of Africa, is new from Ben Pearson Archery for 1971. Sleek and powerful, Raider is a totally new bow designed with smooth, powerful shooting characteristics. Raider features unique new handle riser materials designed for beauty, strength and performance. The riser section is jet black, made of newly developed Ben Pearson Phenolic and hand-selected East India Rosewood. Raider's new pistol grip is designed for comfort and incorporates a thumb rest that provides shooting ease and positive hand position. Design features also include a raised arrow plate and checkered handle.



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4 QUICK DRAW ARROW HOLDER

Manufacturer reports that arrow can't be shaken off bow by bumping, running, shaking or other jarring handling. Releases as you draw, doesn't affect arrow flight, adjusts to any arrow size, fits all bows, easily attachable. \$1.98 from RANGE-O-MATIC SIGHT CO., 35572 Strathcona Dr., Mt. Clemens, Mich. 48043.

5 TRACER STRIPS

A pack of 12 dyed rabbit fur arrow tracer strips is available from Saunders Archery Co., Box 476, Columbus, Nebraska. Cut in thin strips with a pressure-sensitive backing, it easily attaches by winding around the shaft between the regular fletching and the nock. Easily seen, it helps you tell where game is hit, providing more certain timing before tracking. Pack sells for \$1.

6 DEER LURE

It really helps to cover your scent . . . deer will get closer without sensing you. This Buck Stop lure comes in a 1½-ounce squeeze flask with "how to connect" deer hunting instructions, should you need them. \$1.98 at most sports outlets or Buck Stop, Inc., 3015 Grow Rd., Dept. AW, Stanton, Mich. 48888.

7 ONE-ANCHOR QUIVER

A new one-point anchor quiver, called the "Qwiffer," has been introduced by the L. C. Whiffen Co., Inc. Features complete broadhead protection and light weight. One model fits all bows, right or left hand, and maintains normal bow performance and limb action. Available at your dealer or the Whiffen Company, 923 S. 16th St., Milwaukee, Wis. 53204.



6



7

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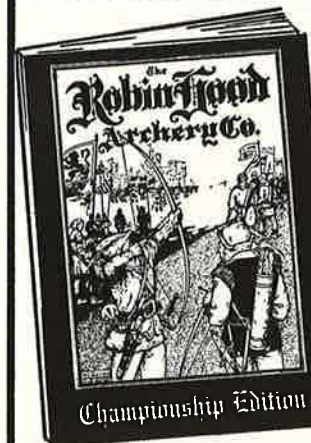
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HUNTING GEAR ROUNDUP 1971



1

1 RANGEFINDER BOWSIGHT

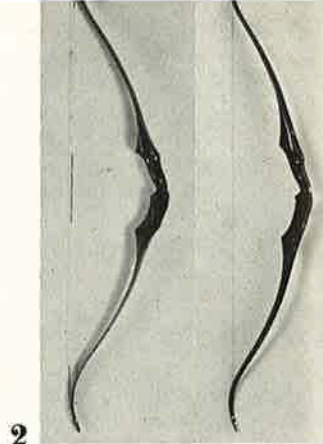
Aiming with this sight automatically gives correct trajectory of arrow flight. Different sized calibrated rings, previously and individually sighted in on a deer target. Use the ring which is just filled by deer's chest and shoot. Rings individually adjustable up or down, right or left. Fits right and left hand bows. Rings of spring steel are painted fluorescent red; sight assembly is non-glare anodized green. Tells ranges up to 45 yards. Drill, allen wrench and mounting screws supplied. \$8.95. RANGE-O-MATIC SIGHT CO., 35572 Strathcona Dr., Mt. Clemens, Mich. 48043.

2 NEW WING HUNTERS

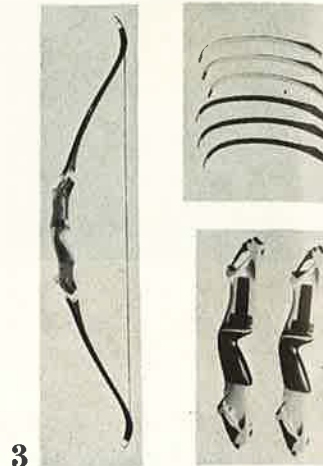
Wing Archery Co.'s new Slim Line bows feature two hunting models—the Red Wing Pro and the Vantage Pro. Pivot points on the handles are slimmer, and nearly torque free, and the sight window is slimmed to allow maximum arrow clearance. Trim and fast, both models have built-in bow quiver inserts. The Red Wing is 58 inches, in weights from 35 to 70 pounds. Retail is \$54.95. The Vantage is available in 52-inch and 62-inch lengths, 35 to 70 pounds. Retail is \$84.95 at Wing archery dealers.

3 BEAR MAGNESIUM-HANDLE TAKEDOWNS

Called the "most colorful" bow around, the new magnesium-handled takedown bows from Bear Archery Co. have eight different colored handles available. Impervious to temperature extremes, durable, featuring an adjustable arrow plate and standard, medium or high pistol style hand grips, the bow also has the standard Bear accessory insert. Available in weights from 25 to 70 pounds, 57 to 61 inches long depending on limbs used.



2



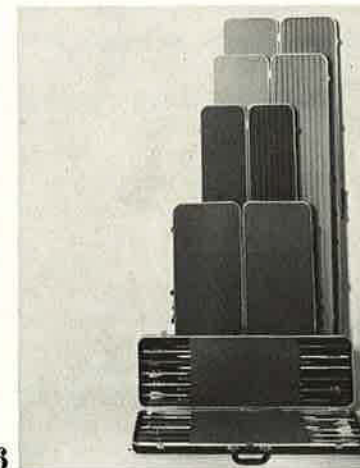
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4 CAMOUFLAGE TO BE UNSEEN

A full selection of camouflage clothing, by the name of Kamo, includes jacket, pants, head net, bow sleeves, and face paint. Pants and jackets both have big pockets for accessory storage. Made of light, water-repellent poplin, full cut for comfort. Head net is of mosquito netting material, conceals face entirely but permits clear vision. Big enough to wear over cap or parka hood. From Camouflage Manufacturing Co., a division of The Leisure Group, Inc., Pine Bluff Operations, P. O. Box 5437, Pine Bluff, Arkansas.

5 NEW COMPACT BEN PEARSON BOW

Designed for easy, quick maneuvering, even in heavy brush, Ben Pearson's new Ambusher hunting bow combines compact size with long bow striking power. The Ambusher is 48 inches long, giving you easy maneuverability and fast pointing in thick cover. The new bow is stocked in draw weights of 40 to 55 pounds. Ambusher's sculptured handle riser section is made of hand-finished select hardwoods. Arrows rest on a beveled edge shelf with a carpet rest for quiet, smooth draw. Ambusher bows are available nationwide from Ben Pearson dealers.

6 NEW BOW CASES

Sportcase, Inc., announces two new bow cases. The model A1069 holds up to 72-inch recurved bows, while the A1062 holds up to 65-inch bows. Both have solid foam on one side, which can be cut to fit accessories. The other side has a two-piece split foam to allow for tension variations in the case. All cases are hard shell ABS plastic, surrounded by an interlocking aluminum extruded valance. Write to Sportcase, Inc., 204 Central Ave., Osseo, Minnesota 55369 for more information.

4 good hunting companions

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tackle topics



by Tom Jennings

Tom will answer your tackle questions if you send them to him at: 10945 Burbank Boulevard, North Hollywood, California 91601.

HYPO HEAD QUESTION

Dear Tom:

Do you believe that the hypo arrow should be legalized on a nation wide scale so everyone can get it?

Do you think there should be an age limit for people to buy it?

If you could tell me your views concerning the subject of this weapon they would surely be appreciated. I myself believe that it will take the sport out of bow hunting. I hope there are other people out there that think the same way.

Rick Faulkner
Dayton, Wash.

• Rick, I am not in a position to make a flat statement on this very controversial issue. I do not have the knowledge to make a good judgment. There are many, many factors to consider. I, myself, am involved with a controversial product and I know how I feel when some uninformed person sounds off about the product when he doesn't know the first thing about it.

• I am sure there would be an age factor here just as there is in most states when you buy a hunting license.

• I don't think sportsmanship is really a factor in the decision to make this type of hunting legal. Actually, it could be made the SUPER SPORTING TYPE OF HUNTING . . . Example . . . Shoot your trophy buck with something that would knock him out for a few hours, call your hunting partner for a witness, measure the rack, take pictures, record weight, etc. Deer wakes up and trots off no worse for the wear and maybe a little smarter. You get the fun of the hunt, the "ego trip" of stalking and taking a smart buck, bragging pictures, and the deer goes free to offer more sport for somebody else. The only thing lost here is the venison on the table but nobody can claim it isn't sport-manlike.

I will venture one more comment on public relations with the non-hunting public. This is touchy ground. They will probably say, "We can't have these archers running around shooting poison arrows, (this is what they will call them)." It is tough enough to defend our position as hunters and killers of "bambi" without being accused of poisoning them. Lots of public education needed here.

A lot of study should be done on this and by all means, we should not rush into some type of legislation until all the facts are in.

STABILIZER QUESTIONS

Dear Tom:

I would like to put a stabilizer on my Shakespeare hunting bow. Target type.

- How do I put it on?
- Will it hurt my bow?

I want to take it off when hunting.

Evan Smith
Darien, Conn.

• I will assume you want to install a single rod target type stabilizer for use on the target range. Most custom archery stores will do this job for you. You can do it yourself if you have access to a drill press. You will have to buy or make a slug. The slug is a tube threaded on the inside to accept a rod. The most popular thread and rod size is 5/16" x 24 thread. Most of the big companies make their stabilizers in this size thread. Measure the outside of the slug and drill a hole in your handle to the depth of the slug length. It is important to make sure you drill this hole in a straight line on a vertical and a horizontal axis or your stabilizer will extend crooked from the bow. This really does no harm but looks funny. Bond the slug in with a good grade of epoxy glue. Stabilizers are available in any complete archery shop from 10 inches to 35 inches long with many different weights. The slug can be mounted at any solid portion of the riser and not harm the bow. The best spot is just below the bow hand.

PLASTIC VANES FOR HUNTING

Dear Tom:

I am thinking of going to plastic vanes on my hunting shafts. I have noticed other archers having problems with plastic vanes.

- Are they tricky to shoot?
- Do you think plastic vanes will help my arrow flight?
- What rest do you think will work best?

Sam Morrison
Indianapolis, Ind.

• Plastic vanes have really come into their own in target shooting. A majority of the top shooters in both target and target field shoot vanes of some type. The rigid plastic is the most difficult to shoot. You cannot afford to strike the bow or the rest or you get bad arrow flight. There are some new flexible plastic vanes that seem to work very well for a large number of people. As for vanes for hunting, development is in the embryo stage. I tried many years ago to work up a set for hunting. Frankly, I was never successful. However, I might give it another try with some of the flexible vanes now available.

• Plastic vanes give you a more consistent flight and of course have less drag, giving you a flatter trajectory. They will help your flight to this extent but are harder to get stable flight. Your release must be better and your overall shooting technique must be better.

• Feather, plastic flip, and brush rests are all popular rests with the vane shooter. These are not the best hunting rests for heavy hunting arrows. I would do a lot of testing before I went into the field with plastic fletched hunting arrows.

LENGTH OF BOW

Dear Tom:

I am presently shooting a 35-pound Bear Polar. I use a 26-inch draw which gives me about 31-32 pounds. I am planning to purchase a new bow and would like your opinion. Bow is 66 inches long.

If I buy a 35-pound Golden Eagle 68 inches long would I lose much cast or overall performance? Should I stick to the shorter 66-inch bow for speed?

Don Hall, O.D.
New Albany, Indiana

• Contrary to what many archers think, overall length of a bow is not a real factor in bow speed. There are many 68-inch bows on the market that are faster than many 52-inch bows. Prime factors for a fast bow are good limb design and the best materials. A bow shoots fast for two reasons. It stores more energy when you draw the string and then it recovers more energy when you release the string. These are both factors of limb design, not the overall length of the bow. I happen to be a nut for speed. I think it is one of the most important factors in target and and nobody will argue that it is not important in hunting.

SILENCER PROBLEMS

Dear Tom:

I have silencer problems. I shoot a Shakespeare 54-inch laminated bow, 50-pound pull, Bear eight-arrow bow quiver and fiberglass arrows. I have tried all other types of bow quivers, string silencers, brush buttons, etc. but my bow still is noisy. Last hunting season a big doe jumped the string at 40 yards causing me to miss.

What kind of silencer will give me a silent bow? Could it be my bow quiver?

Leopold A. Austin

• You should get to the basic cause of your string noise, rather than try to silence the noise. Certain limb designs, bow lengths, string heights just make a noisy combination. A slight change of string height or number of strands will sometimes do wonders for noise. Take everything off your bow and try for the quietest set up before you put on silencers. Bow quivers should bolt or screw into the HANDLE section where there is no flexing to vibrate the arrows and make them rattle. After the bow is as quiet as you can make it, then put on your string silencers. Adjust the silencers to get minimum noise (usually about 10 inches from the ends of the bow). Remember, anything on the string will cut performance of your bow in direct proportion to its weight. Use as light weight as possible.

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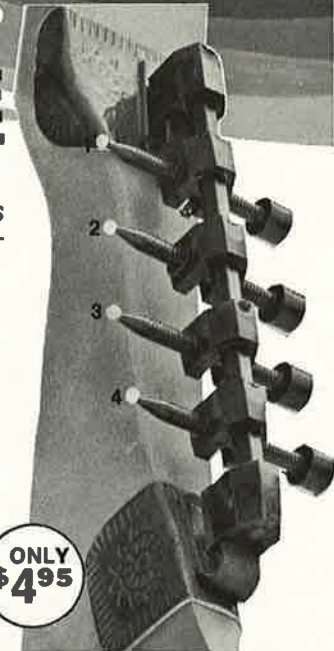
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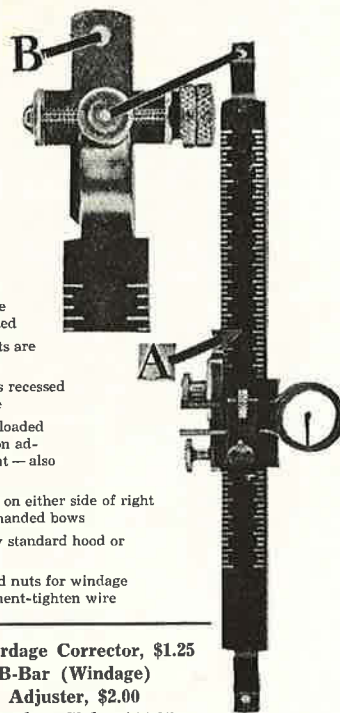
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Williams... Myrick

Top 344 entrants at second NAA U.S. Indoor Champs

by Keith C. Schuyler

A NUMBER OF things were proved at the Second Annual National Archery Association Indoor Tournament at Harrisburg, Pennsylvania, April 24, when the big 900 Round was again combined with the Pennsylvania State Archery Association's 11th Annual Team Shoot.

First, Johnny Williams proved that his educated fingers, combined with his other archery assets, could top the amateur field with an 852 despite heavy pressure from hook artists. Penn-

sylvania once again produced evidence that it is the participation center for archery in the United States with 816 registered for the two events. And, in the first big test of the timing lights developed by George Helwig, of Cincinnati, this device proved its worth beyond any doubt.

Williams worked for his win as he faced an 850 posted by Pennsylvanian Roy Fisher, Burnham, who shot in the first flight. Don Violini, West Nanticoke, was third with an 844.

It was David Jackson, Perryville, Maryland, who nailed the top spot of

• John Williams, Cranesville, Pa., shot an 852 with fingers to win the men's amateur crown in NAA 900 shooting.

• Nancy Myrick, Pompano Beach, Fla., posted an 818 despite a 10-point penalty to take the women's crown.



• Henry Fulmer, Bear Archery Co. sales representative in Pennsylvania, presents a \$500 check to George Helwig and Clayton Shenk for the NAA team travel fund.

• Dave Jackson, Perryville, Md., posted an 863 to take the men's pro freestyle title.

the tournament with an 863 for the men's professional division. In a zinging performance needed to overcome Hollis Webster, Kensington, Maryland, who finished with an 855, Dave tacked up a big one. Frank Pearson, Palmyra, N. Y. was only three points behind Webster with an 852.

In men's barebow division, James Conner, Exton, Pennsylvania, won with 743. But, it wasn't easy as Gerald Rinehart, Sr., a statemate from Boyertown pushed him with a 738. A third Pennsylvanian, James Coggins, Murrysville, was third with 717.

Nancy Myrick, who came up from Pompano Beach, Florida, registered a rosy 818 to resist the challenge of Linda Myers, York, Pennsylvania, who was right up there with an 810. Nancy actually shot an 828. But, she voluntarily dropped 10 points because she failed to get her three arrows off in time on one half-end. Although she shot four arrows in the second half of the end to complete her total of six arrows for the end, the rules disqualify any arrow shot in excess of three during the two-and-a-half minute time allowance. Any time an arrow is disqualified, it must be the highest score shot for any arrow in the end. Hence, the 10-point loss. Maureen Bechdolt, Loveland, Ohio, posted a respectable third with a 793.

Marky Bellis, Windgap, Pennsylvania, had a remarkable 679 for the barebow women as she bested Marie Bartch, in second place with a 572. Both topped the old record of 569.

Marilyn Webster made it a family affair as she led the pro women freestylers with a 783. Geri Hare, Huntington Valley, Pennsylvania, nosed out Kay Fitcher, Newark, Delaware, for second place with her 757.

Vicki Kimmich, Middletown, Pennsylvania, posted an 804 to pull down Jodi Crowl, York, Pennsylvania, who shot 777 for the junior girls. Larry Murdock, West Chester, Pennsylvania, was comfortably out in front of the junior boys with an 865 followed by Gerald Rinehart, Jr., Boyertown, who carded 831.

Douglas Brothers, Loveland, Ohio, topped the intermediate boys with an 831 to beat out Frank Mirabello, Brooklyn, New York, close behind with an 826. This was the first time that intermediates shot the full distances at 60-50-40 yards.

Intermediate girls were led by Janet Kemmerer, Ft. Washington, Pennsylvania, with 759. Donna Linck, Greenbelt, Maryland, claimed the second spot with 720.

No one could fail to be impressed with the excellent setup for shooting provided by the Mechanicsburg Archery Club in a part of the huge Farm Show Building under the direction of

Marty Yontz and Ron Beane with some help from Harrisburg Club members. In a draped setting created for a convention of mobile home dealers to follow the archery events, the excellent lighting and masking-tape-lined lanes provided a most practical and convenient shooting "field". Bill Knight, Pittsburgh, handled the lights in the main area with Gene Klinger, Dauphin, keeping his whistle in time with the lights in the extended area.

Working the strings to ensure that things went well was the indefatigable Clayton Shenk as tournament director with direct assistance from Pennsylvanians Bob Sarber, Harmonville, Bob Cicula, Warminster, and Bud Fowkes, of Verona. Bud is currently president of Pennsylvania State Archery Association.

The National was completed in two fights on Saturday with a small group of teams opening the state event concurrently with the second flight. Provision was made for 260 archers on the line at one time. The total field included 385 registered for the National, and there were 431 entered in the state team event. It was announced that the main event will continue to be an open shoot so that those coming to future Nationals can purchase space in the team shoot.

A total of 385 archers had registered for the big one although only 344 actually shot. Registration for the 11th Annual Pennsylvania Indoor Team Shoot was 431. This is now an open shoot, and out-of-staters are encouraged to bring teams along to make it a two-day tournament next year. Tentative date for the third NAA U. S. indoor event is April 15, 1972.

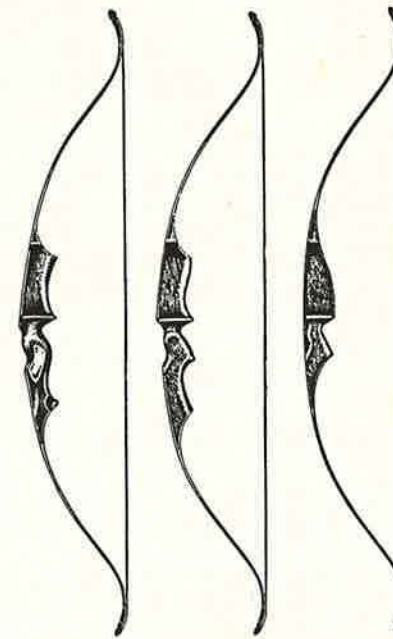
Although this was only the second United States Indoor Championship, a number of previously established records were conclusively smashed. Dave Jackson's 863 beat the previous pro record of 845 by a goodly margin. In fact, Johnny Williams beat the old pro record nicely with his 852 to top the amateurs and add 10 points to the previous record in his division. Margaret "Marky" Bellis really blasted the previous ladies' barebow record by adding 110 points to the old 569 for a big 679. Nancy Myrick posted a future challenge to all comers with her 818, 29 points over the old record.

Juniors competed for the first time at the 50-40-30 yard distances.

A side event was the presentation of a \$500 check to Clayton Shenk and George Helwig by Bear Archery Company through the representative in Pennsylvania, Henry Fulmer. The money goes into the travel fund for U. S. participation in the 1971 World Tournament.

Use of the timing lights, described on pages 50-51 of this issue, provided

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AAC RECOMMENDATIONS RATIFIED BY ALL FOUR GROUPS

THE recommendations of the American Archery Council Equipment Committee for regulations governing standardized tackle in all sanctioned competition, which were announced at the Bear American Indoor Open in Detroit in late March, have been ratified by all four member organizations of the AAC. (Complete and accurate recommendations were printed in the June-July issue of Archery World.)

The only changes made from the recommendations read in Detroit involved the removal of the two clauses in the barebow section which would have disallowed string walking and more than one anchor point. Since it was pointed out that these recommendations involved procedure, and not equipment, these two items were dropped immediately from the recommendations.

So barebow shooters can walk the string, and they can shoot from more than one anchor point.

Major changes, and major bones of contention, of course, involve the fact that release aids and compound bows are not allowed in sanctioned shoots.

As of late June, the new sanctioned shoot rulings were in effect on all NAA, PAA and ALOA activities. Ratification had been slowed considerably while the PAA held a membership vote to determine whether that organization's members were in favor of the recommendations or not. The vote to accept AAC recommendations passed by a 187 to 89 total.

Ratification for the fourth AAC member—the NFAA—will take affect August 15, according to Pat Wingfield, president of the NFAA. The delay here involved the proximity of ratification date to upcoming regional NFAA shoots and their national shoot in late July.

Wingfield explained, "I took the position that rather than impose these regulations with such short notice before our tournament, we would perform under our old regulations as adopted earlier this year at our na-

tional meeting in Chattanooga."

These regulations permit the use of the compound bow and release aids in the freestyle division. But after the NFAA national tournament, future sanctioned shoots in which the NFAA participates will be held according to the ratified AAC recommendations.

In announcing the PAA vote, Dave Staples, PAA president, said, "The vote of our members clearly indicates the position of the PAA. The administration's job is to follow the wishes of our entire membership."

"The PAA voted to accept the AAC recommendations by a 68 percent majority of the voting membership. These standard equipment rules have been incorporated into the PAA's Rounds and Rules for Indoor and Outdoor competition."

There had been motions presented to the PAA to delay the ratification date until Jan. 1 or Feb. 1 of 1972. These were ruled out of order by PAA Parliamentarian Karl Palmatier because at the time the PAA mail vote was taken, all PAA members—and other archery organizations—were operating under the original proposal as made in Detroit and which had to be ruled upon first. And this was that the date on which the fourth and final group ratified the recommendations, they would go into effect for all sanctioned shoots.

Another proposal to the PAA, from Jim Easton, PAA vice president, which would have created a fourth, or "unlimited" division to accept all tackle not allowed under AAC proposals, was ruled to be outside the perimeter of the issue at hand because the AAC recommendations were a package issue and had to be voted upon under that basis. Palmatier explained, "The AAC did not deal with divisions, only with equipment."

So the main item—the AAC recommendations—have been ratified. But the question of "including everyone who wants to shoot" in competitive archery

NAA, PAA,
AIAA-ALOA
effective now;
NFAA August 15

has not. There will be more proposals, it is certain. Many people have talked about creating a new archery organization for the people who shoot equipment not allowed under AAC rules, but it is impossible to tell at this time whether such an organization will or will not be formed.

The next step on the AAC Equipment Committee's part is to make further evaluations, decide upon a standard procedure for the submission of new or disallowed equipment, review any equipment which might be submitted, and set down a procedure for evaluating these items, according to George Helwig, chairman of the committee.

"We're over the first hurdle, that of unification. This means we will stay in session; Ernie Root (AAC president) has told me that he intends to keep us active."

Joe Rusinek, ALOA, said, "There may have to be some changes in total concept for the committee, but I believe a governing body like the AAC will be the savior for competitive archery. We have been practically totally free from manufacturer pressure, the independence to make decisions has been fine. But now we have a basic formula to make decisions. With set rules and regulations, each organization can go to its meetings with the time to concentrate on the things that will be beneficial, rather than trying to change rules every time they meet."

"I personally believe that some of the things now disallowed will be allowed after more consideration. But right now we need the time to give these rulings a fair trial, to let things firm up a little."

So now there is a beginning for unity. It also appears that the AAC fully intends to give another look at the rules as they stand, as well as examine new items. The door is not closed, but now at least there's one door, the same door, for all archery groups to work through.

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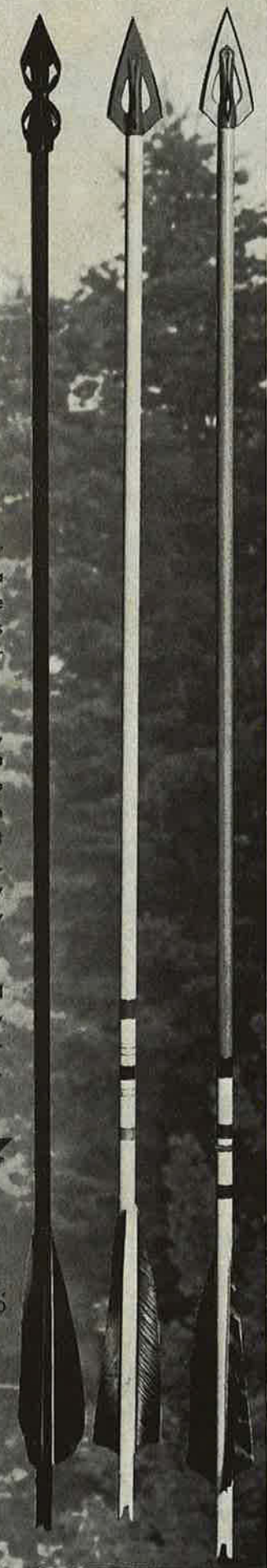
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"Strongest damn man in the world" deer hunt

Put a bow in the hands of a man who doesn't know how to draw it properly, and you get a wild tale like this.

by Burns Tilton

EVERY THURSDAY I play golf at a typical Texas small-town country club. A few years ago, a teenager from one of the nearby farms showed up and wanted to caddy. His name was Howard, but everyone called him "Howie", and he soon became my regular caddy. Howie didn't know the first thing about golf, but wanted to earn money and was bright and eager.

In those days my golfing buddies often teased me about hunting with a bow and arrow and the idea captured Howie's imagination. He asked questions by the hour.

One day Howie came to me with a proposition. He wanted to see me kill something with the bow, so had contacted some of his kin-folks and wangled an invitation, to do deer

hunting with them the following week, if I would take him along.

The morning of the hunt I picked up Howie and we drove 40-some miles to just north of one of those off-the-beaten-path towns called Weches.

With Howie's guidance we pulled up to a farmhouse several miles off the hardsurface way before daylight. Howie told me, he'd go see if he could

"raise some one in the house", which sounded like a splendid idea, as there were a couple of belligerent yard dogs between me and the house. The combination of Howie pounding on the front door and the dogs barking worked. In just a short time, someone lit a kerosene lantern and routed the dogs with a chunk of firewood.

Howie introduced me to his cousins while the women were cooking breakfast, and nothing would do but that we should eat with them.

One of the men, named Jake, took a special interest in me and my bow and announced that I would hunt with him. Jake had to be seen to be believed. I'm 6'2", and he was a good half a head taller and must have weighed 230 or 240, with not an inch of fat. He was the most powerful looking man I ever saw. His shoulders were so immense he actually brushed both sides of a doorway when he went through. He looked to be in his early thirties, with an unruly thatch of coal black hair that I suspicioned grew clear down his back to his heels.

After breakfast Jake told me to get my bow from the car and he'd meet me in front of the house with his pickup. When he pulled up, I saw a small liver-colored hound in the back of the truck and asked Jake what the dog was for. He looked at me like he couldn't believe his ears.

"Why that's the best damn deer dog in these parts," he said.

"You mean we're going to hunt deer with dogs? Isn't that illegal?" I asked.

"Man," Jake said, "we've always hunted with dogs, and besides, who's to say?"

"Well, for one," I said, "what about the game warden?"

"Game wardens?," Jake answered, "let me tell you something. There ain't no such thing as a game warden hereabouts . . . never was and never will be . . . and that's a fact. So you don't worry none about game wardens."

The hunt, as it was called, consisted of eight or ten pickup trucks, each with a dog in the back, driving down a country lane in single file until deer tracks were found crossing the road. Then everyone turned their dog loose, mounted up and raced around to the opposite side of the woods . . . a LeMans in the outback.

When we reached the opposite side of the woods, the men loaded their shotguns and formed a long line at about 50 yard intervals — about shotgun range apart — and waited for the dogs to drive the deer to them.

We were hardly on line when we heard the baying dogs coming close. I have to admit, even though I had this knowing feeling in the pit of my stomach about the game warden question, it was exciting to hear the dogs

getting closer and closer and expecting to see a deer pop out of the brush any second. All of a sudden someone blasted away to my right and word come up the line "he got it".

Two men dragged a doe to the road. While they were dressing her, several others built a huge bonfire, which I snuggled up to to get warm. I had no way of knowing how cold it was, but every ditch had ice in it. All of the men gathered around the fire and I noticed they were passing one of those crock gallon jugs you always associate with the hills of Tennessee. As it came to each man, he would turn it up, take a big swig of what could only be homemade whiskey and pass it to the next man.

I looked at the men between me and the jug and marked every one for either a tobacco chewer or a snuff dipper. I didn't dare refuse a drink; yet, aside from my concern over the element of hygiene, the expressions on the faces of the men who had already taken a drink indicated it lacked something in smoothness and taste.

I guessed right; it tasted like it had been drunk once before. But its alcoholic content was more than adequate to sterilize the mouth of the jug. I believe the contents of that jug could snuff out cancer.

In an amazingly short time I wasn't cold anymore, and had begun to feel a kinship with these men. Since my newfound cousins were discussing the hunt, I began to pay attention. It seems, according to their rules, that no matter who shoots a deer, the owner of the dog that jumps the deer and brings it out of the woods is entitled to half. The amazing thing about their conversation was that they seemed to be in complete accord about their dogs' place in the race; they not only could identify the baying of their own dog, but of most or all of their neighbors, and tell by the sound whether the dog was win, place or show.

This was the day after President Kennedy had been assassinated and the conversation turned to that. I guess about everyone there, except me, had some comment to make. But when everyone had fairly well expressed their feelings, it fell to one grizzled old farmer, whom they apparently regarded as the patriarch of the group, to do the summation: "It just ain't right", he said, "Nope, it just ain't right to shoot a man in the back that ain't done nothing to you personal". For a moment I thought this might be a "sick joke", but looking around the circle of solemn expressions and seeing agreement in the other men's faces, I knew he had expressed all of their feelings.

Right then, I made a silent oath: "If the good Lord will just let me

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"I believe the contents of that jug could snuff out cancer."

get away from here without crossing any of these people, I promise to never set foot in these woods again and to obey all laws for ever and ever".

One of the men asked me if I was that "bow and arrow man", and I told him I was. Then everyone wanted to see my bow and how it worked. Jake seemed to take a possessive pride that I was with him and asked if he might shoot it.

I handed him an arrow and showed him where to nock it, but before I could show him how to hold the string he stepped out of my reach and started trying to draw the bow by holding the arrow between his thumb and forefinger.

Naturally, he couldn't pull the bow more than halfway with that grip, but since all the men were hollering "Pull it back, Jake, pull it back", he tugged and strained with the veins standing out on his face and neck until he finally let down with a grunt.

He stood there, red faced, staring at the bow with a bewildered look. Then he asked me "How far do you pull it back?" Why I didn't show him how to hold the bow string right then, I'll never know. But I didn't.

"You pull it all the way back to the arrowhead, Jake," I told him. He tried to draw it the second time, with no more luck than the first, accompanied by more hooting and hollering.

Then he thrust the bow into my hands and said "Let's see you do it."

Not a person there noticed that I held the arrow or the bowstring any differently than Jake. I pulled it back to full draw, held it just a little longer than usual for the effect, and shot the arrow into the cornerpost of a fence across the road.

Not a person said a word. There was complete silence for several seconds, then Jake snorted as he walked across the road to retrieve the arrow, "strongest damn man in the world".

When Jake and I were back in the pickup on the second drag for tracks, Jake asked me, "Is there some trick to pulling that bow?" Like a damn fool I told him "No, just pull it back."

I noticed, as we were riding, from time to time Jake would look at me sideways like he was trying to make up his mind. Since I was enjoying my new status, I decided not to tell him I wasn't "The Strongest Damn Man in the World."

We soon found another set of tracks and had the dogs running. This time, when we stretched out on line, Jake hollered down "Hear that, my Gyp's bringing that deer home."

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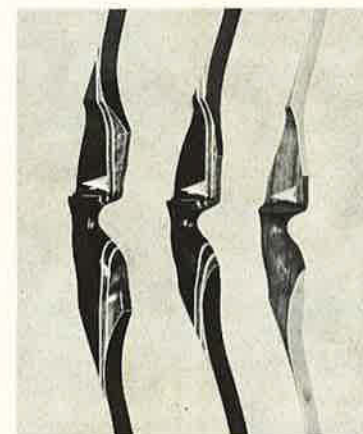
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"I could see the hackles on the back of Jake's neck standing up like an old boar's."

The dogs were getting close when two shotgun blasts shut off all noise. Word came up the line, "Old man Haley and his boy got him!"

On the way back to the road, Jake told me "Old man Haley and that boy are the two chintziest bastards in these parts and I wouldn't put it past them to claim it wasn't my Gyp what ran that deer out. If they do, you and I are going to whup their asses all over these woods. Come on, let's get down there and see what they say!"

On the way I cussed myself a thousand times for letting Jake think I was "The Strongest Damn Man in the World." Now he and I were on our way to "whupping" a couple of his neighbors and this sure sounded "personal" to me — if we brought it off — and if we didn't bring it off, who in these woods had ever heard of the Marquis of Queensbury.

All my worst fears were confirmed when we approached the tailgate of Haley's truck. Old man Haley and his boy looked nothing at all like father and son — more like Sam Huff and his big brother.

The prayer I said under my breath, while walking from our pickup to theirs, was answered just as vividly as any burning bush when Old Man Haley said "Jake, your Gyp jumped this buck and brought him right to me. Half the deer is yours."

Jake had gotten a little in front of me as we walked up to the Haleys (but you'd already guessed this, hadn't you), and from where I was standing I could see the hackles on the back of Jake's neck standing up like an old boar's. Old Man Haley's greeting really let the air out of him; you could see him deflate.

Old Man Haley and his boy carried the deer over and put it on Jake's tailgate. "Take your half and drop ours off the first time you come by, Jake". And with that, everyone got in their trucks and drove away, leaving Jake, me and the deer.

For a few minutes after everyone left, Jake just stood there letting his breathing return to normal. Then turning to me, he said "Damn good thing them Haleys didn't try rooking us, they'd a got it sure, wouldn't they?"

Like an idiot, I said, "What do you mean, they didn't try to rook us? It looks to me as if they foxed us good. Aren't you entitled to half the deer since your dog got it?"

"That's right," said Jake. "Well, it seems to me that the fel-

low who shoots the deer, and owes someone else half, should be the one to dress it and deliver the half he owes. The Haleys shot it, but left it for you to dress and deliver their half."

Jake started swelling up again. "Come on," he said, "we're going to their place and learn 'em something."

The first waves of impending disaster must sharpen my wits, because I told Jake "I don't think I want to go down to the Haley's and let all of these other folks find out they outfoxed me. I'd rather clean the deer than admit something like that."

Jake digested this a moment and said "You're right. Tell you what, we'll keep our eyes open and the next time one of them Haleys steps over the 'licklog', we'll fix their wagon."

"You bet," I told him, knowing full well there wasn't going to be any next time for me.

After Jake and I cleaned the deer and took it home, I told everyone what a grand time I'd had, how much I'd enjoyed meeting all of them, and lied a little by faithfully promising to return for another hunt.

On the way home I vowed that if "The Strongest Damn Man in the World" was ever loose in the woods again at the same time I was, I was going to be *with* him, not *as* him. This vow I've kept 'til this day. And that's a fact.



NATIONAL ARCHERY ASSOCIATION

National Archery Association of the United States

Ronks, Pennsylvania 17572 (AC 717) 687-7324

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JUNIOR OLYMPIC ARCHERY DEVELOPMENT PROGRAM

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Olympic Qualification Tournaments

The official Olympic qualification period began July 1, and will run through July 31, 1972. To qualify for the Olympic tryouts you must shoot at least three scores at major tournaments of 1100 for men or 1050 for women before the qualifying shoot, and you must shoot the fourth qualifying score at the tryouts — if you haven't done it earlier — to be eligible for Olympic team consideration. In all, you must have four qualifying scores to be eligible for the Olympics.

And here are the first four tournaments during the qualification period: Aug. 10-11, 87th National Archery Championships, Miami University, Oxford, Ohio; Sept. 3, Pennsylvania State University, State College, Pa. (for full info write to PSAA, Box 306, Ronks, Pa. 17572; Sept. 11, Wildlife Committee of Washington (for full info write to George Brown, 1031-228th St., SW, Bothell, Wash. 98011; Oct. 24, Sun Devil Archers, Arizona State University (for full info write to Margaret Klann, ASU Women's Physical Education Department, Tempe, Ariz. 85281.

Remember, you must be an amateur, a United States citizen, a member of the NAA, and register each qualifying score with the NAA Executive Secretary, Box 48, Ronks, Pa. 17572 if you are to participate in the Olympic Tryouts.

PENNSY TEAM CHAMPS

There were 430 archers from 36 clubs at the tenth annual Pennsylvania State Archery Association indoor team shoot held in conjunction with the NAA Indoor Championships at Harrisburg in late April. They shot the Chicago round, 96 arrows at 20 yards.

Winners were: Free style men — York team of Andy Bacha (854), Stan Lenhart (832), Robin DeVono (826) and Al Meeder (818) for a 3330 total; second was the Fox Harbor team of Truman Smith (856), Larry Smith (844), Robert Kaufhold (798), and Gerald Aston (798) for a 3296 total. Free style women — Big Chiques team of Ruth Wallace (806), Sally Lehman (778), Nancy Fauser (748), and Verna Nissley (748) and 3080 total; second went to the York team of Donna Shoff (810), Malinda Napp (754), Carolyn Markel (752), and Jodi Crowl (711) and 3027.

Top women's barebow team was the Berwick group of Meriam Leiby (449), Dot Long (350), Shirley Moss (258) and June Sutliff (90) for 1147.

Top men's barebow teams were the South Mountain group of Richard Albert (774), E. E. Murray (766), Richard Keiter (760) and Gerald Yost (730) for 3030 total, and the Ephrata team of Ken Fauser (750), Rod Hoover (744), Arnold Morris (728) and Ray Boley (724) for 2946 total.

Top bowhunter team was the Berwick group of Roy Lieby (535), Keith Schuyler, Sr. (511), Bill Sutliff (468) and Leon Crouse (338) for 1852.

Top pro teams were the Kennett Square four of David Jackson (860), Frank Pearson (850), Andy LaMarche (844) and Rolfe Smith (801) for 3355 total; second went to the Popodickon group of Ron Lambert (852), Sherwood Schoch (832), Henry Fulmer (796) and Charles Miller (780) for a total 3260.

The 1972 PSAA team event will be April 15-16 at Harrisburg.

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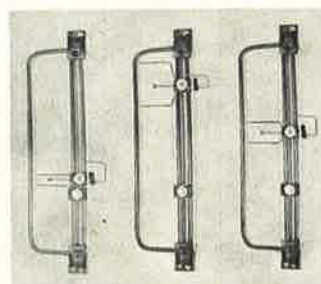
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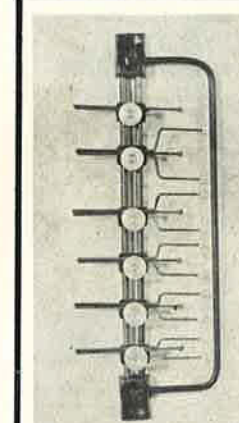
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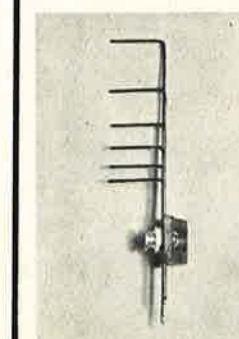
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Doreen Wilber wins in Russia, Ward, Williams, Myrick also in top bracket



Doreen Wilber



Hardy Ward



John Williams



Nancy Myrick

Doreen Wilber, Jefferson, Iowa, won the women's championship at the Third International Archery Championships in Moscow, Russia, May 27-30. She shot a Double FITA score of 1188/1203-2391 to finish six points ahead of I. Shidlovka of Poland.

Nancy Myrick, Pompano Beach, Fla., finished 13th in women's shooting with 1116/1112-2228. John Williams, Cranesville, Pa., finished 13th in men's shooting with 1141/1111-2252, and Hardy Ward, on leave from the U.S. Army, finished sixth with 1168/1132-2300.

Doreen, asked about her impressions of the shoot, said, "It was the best competition I ever shot in. I've shot higher scores, but I was pleased with my two rounds in Moscow. The thing that made it a good tournament was that everyone down the line was shooting well."

"We didn't have much trouble communicating, and everyone got along real well. We'd had the language barrier at the World Championships at Valley Forge in 1969, so it wasn't that new. Somehow, the archers manage to communicate with or without interpreters. And a lot of the people there spoke English."

Ten nations competed — Denmark, Finland, Italy, Great Britain, East Germany, Poland, Czechoslovakia, Mongolia, U.S.A. and the U.S.S.R. Twenty-two women and 38 men shot.

The U.S.S.R. paid air fare from Moscow to one airport in each nation, also lodging, meals and expense money. The U.S. Olympic Committee paid air fare for four people from the U.S.A. and Bear Archery paid for the fifth person.

Clayton Shenk, NAA executive secretary, said archery is a minor sport in Russia, and they use tournaments like this to arouse interest in the sport. He added that Russian officials indicated they would welcome an opportunity to participate in the United States in 1972 before the Olympic Games.

RECORDS SET AT U.S. INTERCOLLEGIATE MEET

WOW! Steve Lieberman, Arizona State University, and Donna Wesson, also of Arizona State, sort of tore up the place at the fourth annual United States Intercollegiate Championships May 1.

Lieberman set nine men's division records in compiling a 2271 (NAA 900 - 842, American 774, and Short FITA 655), and Wesson set five new records and tied one in her division with a 1979 (NAA 900 - 788, Columbia 610, and Short FITA 581).

Second behind Lieberman was Gale Cavallin, San Bernardino Valley College, California, with 840/784/573-2207. William G. Shields, University of Delaware, was third in men's division with 807/772/625-2204.

Second and third place winners in women's division were Carol Jurn, Arizona State, with 765/604/564-1933, and Rose Svarc, California State Long Beach, with 733/618/559-1910.

But Lieberman and Wesson weren't alone in their top shooting. In fact, only one record from previous years still stands — Lois Ruby Burcaw's 315 set on the 30-meter target of the Short FITA round in 1967 — and it was tied by Donna Wesson this year.

Here's a rundown on the new records: Men's division: NAA 900 round — Lieberman 270 at 60 yards, 286 at 50 yards, 286 at 40 yards, and an 842 total; American round — Cavallin, 252 at 60 yards, Lieber-

• Top individual women were, from left, Rose Svarc, Cal. State College, Long Beach, third; Carol Jurn, Arizona State University, second; Donna Wesson, Arizona State University, first. Charles L. Conley photographs.



• Top individual men in the U.S. Intercollegiate meet were, from left, William Shields, University of Delaware, third; Gale Cavallin, San Bernardino Valley College, second; and Steve Lieberman, Arizona State University, first.



man, 266 at 50 yards, Cavallin 270 at 40 yards, and Cavallin with a 784 total; Short FITA round — Lieberman, 314 at 50 meters, 341 at 30 meters, and a 655 total. Lieberman's total of 2271.

Women's division: Columbia round — Carrie Tamarin, Arizona State, 204 at 50 yards; Svarc, 210 at 40 yards, Kristie Kaiser, Arizona State, 216 at 30 yards, and Phyllis Long, Mt. San Antonio College, California, a 622 total. Short FITA round — Wesson, 266 at 50 meters, 315 at 30 meters, and 581 total. NAA 900 round — Wesson, 258 at 60 yards, Long, 259 at 50 yards and 281 at 40 yards, and Wesson, a 788 total. And Wesson, a 1979 overall total.

Team records were set too. The San Bernardino Valley men's team of Gale Cavallin, 2207, Mark Plott, 2120, and Carl Rolff, 2113, totalled 6440. Arizona State's women's team of Donna Wesson, 1979; Carol Jurn, 1933, and Carrie Tamarin, 1848, totalled 5760. Arizona State's mixed team of Donna Wesson, 1979; Carol Jurn, 1933; Steve Lieberman, 2271, and Tim Bonnet, 2092, notched a record 8265.

The top ten men were:

	NAA 900	Amer- i- can	Short FITA
Steve Lieberman, Arizona State	2271/842	774	655
Gale Cavallin, San Bernardino	2207/840	784	573
William G. Shields, U. of Delaware	2204/804	772	625
Chuck Trafford, U. of Arizona	2195/810	760	625
John Long, Montana State	2157/804	762	591
Larry Anderson, U. of Washington	2122/793	742	587
Mark Plott, San Bernardino	2120/778	748	594
Jerry L. Trusty, San Bernardino	2119/771	741	607
Carl Rolff, San Bernardino	2112/759	738	616
Dan Smith III, Citrus College	2105/786	740	579

Top ten women:

	NAA 900	Co- lum- bia	Short FITA
Donna Wesson, Arizona State	1979/788	610	581
Carol Jurn, Arizona State	1933/765	604	564
Rose Svarc, Cal. State, Long Beach	1910/733	618	559
Jean Keith, Brigham Young	1881/749	578	554
Debbie Inskeep, U. of Arizona	1873/750	578	545
Phyllis Long, Mt. San Antonio	1870/784	622	464
Carrie Tamarin, Arizona State	1848/732	602	514
Cathie Pepitone, San Bernardino	1843/724	588	531
Elaine Dawson, Shoreline College	1800/708	562	530
Barbara Luly, San Bernardino	1791/703	582	506

The 1972 United States Intercollegiate Archery Championships will be hosted by San Bernardino Valley College, with Lorraine Pszczola as tournament director.

MARYLAND'S CARLING RAINED OUT, NEW DATE IS SEPTEMBER 19

Heavy rains wiped out the Carling-Maryland Archery Association charity shoot on May 30 — but the event has been re-scheduled for Sunday, Sept. 19 at the Carling Brewing Company's Baltimore field.

The tournament will be shot simultaneously with the MAA state target championships. For information about both the state and Carling shoots, write to Mrs. Margaret Mazzeo, secretary, MAA, Rt. 1, Box 65, Indian Head, Md. 20640.

KLANN COMMENTS ON INTERCOLLEGIATE

INTERCOLLEGIATE ARCHERY has come a long way the past few years, and at the recent U.S. Intercollegiate championships at Arizona State University, Tempe, may have really hit its stride, says Margaret Klann. She coaches the Arizona State team, and also directed the tournament.

"I can't compliment our officials enough. They kept it organized, smoothly running, well officiated. The kids were all neat and attractive, and nothing got out of hand. I think it was the best tournament that I have ever seen, including the world's championships. Even the weather was great!"

Officials for the event were Al Henderson, a Phoenix PAA instructor, and Lorraine Pszczola, coach of the San Bernardino Valley College team and chairman of the NAA All-American board. They were assisted by Mr. and Mrs. Mark Vancas (the former Sue Loftis), both of whom are former intercollegiate All-Americans. Sue was the 1969 women's intercollegiate champ.

When queried about the cause of the flock of new records, Klann replied, "It's just one of those things we've been building toward since we started the college archery program. Without a doubt, the Olympic effort has been a boon to us. I think the fact that the Olympic requirements for tryout are so high has made kids really scramble. College level and otherwise."

"If you set the standards high, they will work and eventually reach them."

She added that the U.S. Intercollegiate meet can reasonably be expected to keep getting better and stronger. Ultimate aim, of course, is to have a college division of the National Archery Association.

Olympic contenders? "I think we had close to a dozen kids who can be Olympic contenders."

There were a host of All-American qualifying scores shot. In the NAA 900, 27 men and 17 women shot better than the 750 and 700 minimum needed; the men's American round had 23 scores over the 700 score required, and 13 women broke the 560 Columbia round qualifying mark.

Good shooting, all the way around.

Pennsy State Tournaments Set

The 37th annual target championship of the Pennsylvania State Archery Association will be Sept. 3-5 at Penn State University, State College, Pa. Competition is open to amateur and professional, men and women, in FITA, 900, American and team rounds. There will also be crossbow events. Shooting will also have Intermediate, Junior and Cadet levels.

The annual Pennsylvania Bowhunters Festival, which regularly draws more than 2000 avid archers, will be Sept. 17-19 at Forksville, Pa.

The 26th annual field archery championship of the PSAA will be Sept. 11-12 at the Seven Springs Recreation Resort, Champion, Pa. Field, hunter, and animal rounds will be open to amateurs and pros, men and women, and youth divisions.

Full information on all these events is available from the PSAA, Box 306, Ronks, Pa. 17572.

Attendance Up Fifty Percent At Brown County

For the first time in eleven years it didn't rain during the Brown County, Indiana, Open on Memorial Day weekend. And there were 150 shooters on line, 50 more than last year. But despite these favorable conditions, no spectacular scores were turned in. Chris LaBucke had high men's FITA with 1179 and Clela Wanamaker topped women's FITA with a 1118.

Credits go to Roy Roff and his wife, Senda, of the St. Louis Archery Club, for directing the tourney, and to Allen Muller and company of Minneapolis who arrived early and helped the Roffs set up.

The timing lights which have been tried success-

	FITA	900 American	Total
AMATEUR WOMEN			
C. Wanamaker	1118	766	1884
Maureen Bechdolt	1042	777	1818
Ardelle Mills	1022	753	1775
NON-AMATEUR WOMEN			
Barbara Dick	1075	764	1839
Ann W. Hoyt	1045	710	1753
Frances Goodrich	942	747	1689
INTERMEDIATE GIRLS			
Cathy Swarts	861	674	1536
Terri Hagemeyer	812	620	1432
Carla Baranauckas	719	550	1279
AMATEUR MEN			
Chris LaBucke	1179	813	1992
James Bots	1113	807	1920
Joseph Blazek	1094	802	1896
NON-AMATEUR MEN			
Richard Elbrink, Sr.	990	782	1772

fully at other events were used to good extent here, too. The only problem was padding the portable generator well enough to keep its noise from being a distraction.

Eighteen states were represented, with shooters coming from as far away as South Carolina and Louisiana. Allen Martin of Cincinnati and Walt Dixon of Lansing, Mich., assisted field captain George Helwig. Kletis Wheatley of Cincinnati handled the Cadet and Junior lines.

Here are the top scores:

Earl Hoyt, Jr.	987	782	1769	
Robert Bechdolt	961	766	1727	
INTERMEDIATE BOYS				
Richard McKinney	1103	775	1878	
Ray Wade	1053	804	1857	
Bill Rankin	963	772	1735	
Metric Round Jr. 900				
JUNIOR BOYS				
Dave McCullough	1064	759	1823	
Darrell Pace	995	760	1755	
Richard Elbrink, Jr.	953	741	1694	
CADET BOYS				
Scott Hoffarth	692	482	1174	
American Rounds				
CROSSBOWMEN				
Thomas Hock	507	554	559	1620
Beverly Hock	349	258	354	961



• Number one women's target, from left, Bechdolt, Wanamaker, Dick, Hoyt.



• Number one men's target, from left, Utnage, Blazek, McKinney and LaBucke.

Junior Olympic News

The summer shooting season is well under way and it is encouraging to see a general increase in attendance at these events. The Millett Hawks Junior Olympic club from Lansing, Michigan, attended the recent Brown County tournament over Memorial Day weekend. There were fourteen shooters entered and our congratulations go to leader Walt Dixon who is conducting once-a-week special FITA distance practices. This is the kind of effort and determination which will make a winning team in 1972.

To further aid in developing the Olympic style shooting, the NAA last year introduced at their National Championships a Junior Metric round shot under FITA regulations as to target face size and number of arrows. Starting with the 1971 season it is also a new requirement that FITA equipment rules must be followed. This means no string peeps or bow levels. For the American and Junior American rounds the new AAC regulations for equipment are used. The distances for the new Junior Metric round are for Juniors: 55-45-35-25; for Cadets 45-35-25-15 meters. The Intermediates shoot adult FITA distances; 36 arrows at each distance. 1440 is perfect score with 10-ring scoring.

The big summer event for all Junior Olympic club members is the National Archery Association's Championships, August 9 through the 13 at Miami University, Oxford, Ohio. See your club secretary for information and entry forms.

While we are on the subject of tournaments, 1972 is already being scheduled and a new exciting event is being added for January 28-30 at Illinois Archery Association's 12th Annual tournament sponsored by the Osage Archery Club of Champaign, Ill. The event will be an Outdoor Jr. Olympic Round . . . 20-30 yards to be shot Indoors at the University of Illinois Field House.

We have also accepted the bid of the Las Vegas tournament committee to stage a Junior Olympic indoor event on Saturday afternoon. This event has never reached its attendance potential because of lack of early publicity so the sponsors are starting now. Let's plan on making this a big event.

And as usual the Detroit event has increased its attendance every year and we are expecting 1972 to be no different.

The Junior Olympic office has just recently received a film of the 1969 World Archery Championships held at Valley Forge, Pa. It is an excellent film and shows the ceremony associated with this event as well as the shooting styles of the World Champion archers. The film is donated by the courtesy of Easton Aluminum and Bear Archery Co. Any club may schedule it for their use, but we request a donation to the U.S. Team Travel Fund for its use. The Travel Fund needs your support. You, the young archers, stand to gain the most by its activity so ask your club or any club to send a donation to the U.S. Team Travel Fund, in care of the Junior Olympic office here in Cincinnati, Ohio. No gift is too small, none too large.

STILL TIME TO SHOOT IN BERMUDA

October 9-10 are the dates for the second annual NAA-Bermuda tournament. Any NAA member is eligible to enter this event, which takes place on the vacation isle. For full information, write William Stump, Beaver Dam Rd., Cockeysville, Md. 21030. His telephones: work, 301-539-7600; home, 301-666-2566.

Cindy Bednar, Doug Brothers Top Ohio JOAD Archers

Cindy Bednar, Suffield, topped all JOAD shooters at the Ohio State JOAD championships recently with a 536 in the Intermediate Girls division. Doug Brothers, Cincinnati, topped Intermediate boys with a 534. Cindy is the daughter of Bill Bednar, long one of the top shooters in all archery. The tourney was held at the Wright-Patterson AFB indoor archery range under the direction of Dan Tillberry.

Other division winners were Rick Bednar, Suffield, Junior Boy, 532; Amy Washburn, Cincinnati, Junior Girl, 401; Chris Powers, Cincinnati, Cadet Boy, 505; and Joanna Bednar, Suffield, Cadet Girl, 362.

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NAA U. S. Indoor (from page 34)

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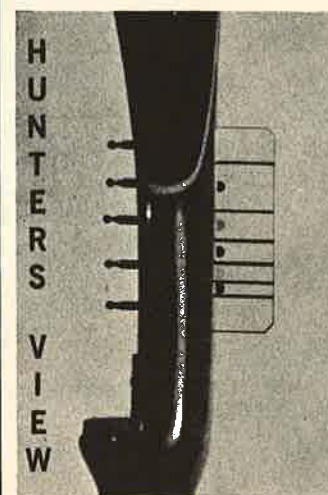
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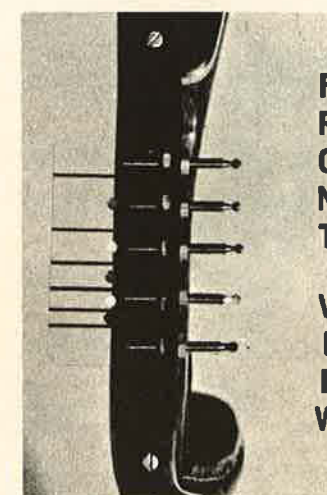
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• Bill Knight, Pittsburgh Archery Club, operated the new timing lights at the recent NAA U. S. Indoor championships.

Archers see the light

by Keith Schuyler

"THE IDEA came to me from watching traffic signals."

George Helwig answered one question about the origin of his timing lights for archery tournaments. The question was directed at the 2nd National Indoor Tournament held at Harrisburg, Pennsylvania, on April 24, when George's lights performed with perfection.

George, now in the twelfth year of his tenure on the board of the National Archery Association where he is presently vice-president, has been working on his lights for some time.

"Actually, the idea of the lights developed at the FITA World Tournament at Valley Forge in 1969," George said when further questioned. "Although the system of flags and stop watches used in that event worked well, I thought that the tournament could be speeded up and there would be less confusion by the use of lights."

The first formal test of his lights was made at Culver Military Academy, Culver, Indiana, at a team shoot held in September of 1970. Prior to that, the lights had been tested at the Nationals in Oxford, Ohio, but there contestants could not see the lights. They were placed in such a position that only the officials could see them.

But, audio signals by officials were actually timed by the lights themselves. The second official use of the lights came at the Ambassador's Cup Match in Chicago, last September, when Canada and the U. S. held their annual competition. And, they again saw use in the Junior Olympics at the Bear American Indoor Open in Detroit this March.

Operating somewhat like the lights used on a drag strip, there is a vertical bank of three green and one red light. To start a shooting end, a whistle is blown and the single red light brings the archers to the line. Shooting starts when the three green lights also are illuminated. One green light goes out at the end of one minute, and the second at the end of the second minute. There are then thirty seconds remaining of the two and one-half minutes permitted for three arrows. At the end of fifteen seconds, or a total time lapse of two minutes, 15 seconds, the red light goes out and there is a single illuminated green light remaining. When this light goes out at the end of the two and one-half minutes, no arrows may be released.

Although the lights are set in operation with a mechanical switch by an official, from that moment on they operate mechanically. Nevertheless, in the event of an equipment breakdown or any other emergency, the lights can be stopped and held until shooting resumes. It is not necessary to recycle and there is no shooting time lost for the archers.

Bill Knight, Pittsburgh, operated the lights at the Harrisburg shoot in the main area. A separate set of lights served an extension of the shooting line beyond the registration area. Gene Klinger, Dauphin, operated these lights on visual signal from the main bank at the other end of the hall.

It appears likely that many more archers will see the light in the future. The idea will be submitted for possible use in the Olympics next year.



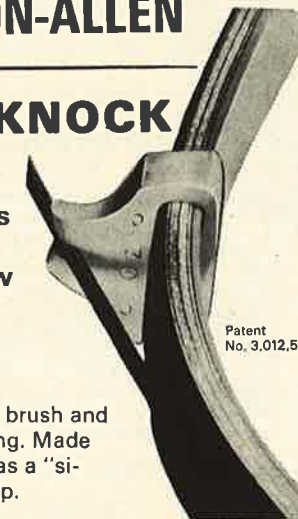
• George Helwig, NAA JOAD director, who originated this timing light system, prepared to turn on the lights and sound the horn at the 1971 Bear American Indoor Open, the first time the lights were used at a major shoot.

W.A. Original Archery Items by WILSON-ALLEN

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LANE NEWS

ALOA "300" Rings Now Available

ALL MEMBERS of the "300" Club will soon receive their rings. The ring is definitely a memento which reflects the fine achievement of shooting a sanctioned 300 in AIAA league play. Thanks from the lane operators go to Jean McGeeney and Rick Wilson for their design work on this ring. Since the stone in the ring will be the shooter's birth stone, all applicants are reminded to specify birth date along with ring size.

ALOArara pins are now available, also. Most lanes will be starting ALOArara with the beginning of the Fall indoor season. Inquire at your local ALOA lane for details.



New '300' club members

Fourteen more shooters have joined the elite "300" Club. They are: Gene Ward, Western Archery Sales, Denver, Colo., Jan. 15; Bill Kronyak, Butts & Bows, Belleville, N. J., Feb. 2; Lee Burden, Sports Haven, Green Town, Ohio, March 31; Wayne Burke, Chalk & Cue, Joliet, Ill., April 5; Alfred Bond, Bonnie Bowmen, Alameda, Cal., April 6; Darwin Johnson, Midway Archery, Menasha, Wis., April 8; Bill Mills, Henderson Archery, Phoenix, Ariz., April 21; Dick Tone, Henderson Archery, April 28; Larry Matthews, Henderson Archery, April 30; David Newman, Portage Archery, Suffield, Ohio, May 11; Eddie Riggins, Portage Archery, May 18; Wayne Donnay, Bwana Lanes, St. Paul, Minn., March 18; Jim Harwood, Bwana Lanes, St. Paul, March 11; Ron Manist, Portage Archery, Suffield, Ohio, April 20.

Try a Fun League

Normally serious archers, beginners and pros alike, put that aspect aside for the Friday night Fun League at Jo-Jan Lanes, Baltimore. The change is welcome, and increases enthusiasm for all shooting.

Split into two large teams each week, the league members ante 75¢ each and the winning team collects the pot to divide among themselves. The pseudo-serious rivalry amounts to more heckling than anything else, but it's all in fun. And there may be a \$1.50 pot if you're a winning team member.

After five or six weeks of this competition the league breaks for a party night. Here, training equipment is the shooting rule, and using a four-pound training bow to propel a Number 7 fiberglass arrow twenty yards produces interesting results. Or play poker at twenty yards, instinctively, with 18- to 24-pound bows and lane arrows.

The Fun League is sanctioned, and the regular prize-money fund is kept, to be distributed at the end of the season to the top point winners. But on Friday nights, the weekly pot adds spice to the league fun.



WISCONSIN LANES TEAM CHAMPS

Twenty-six four-man teams representing six Wisconsin ALOA lanes participated in scratch, handicap and amateur division competition at the 1971 ALOA state team event May 1-2 at The Archery Center, Madison. Winning scratch team was the Midway Archers, Menasha, team of Bill Ewald, Darwin Johnson, Bob Baerenwald and Wayne Uttecht with 1146. First place amateur team, from Bro-Ken Arrow Lanes, Milwaukee, was Phil Prizwan, David Borowiak, Dave Szwedo, Mark Sattler. Top handicap team, also from Bro-Ken Arrow, was Gene Lapinski, William Lynch, Gene Clements and Tom Jones.

In the photo above, top row, left to right, are Ewald, Baerenwald and Uttecht. Johnson is lower left, and holding the big trophy is Dennis Koerner, owner of Midway Lanes.

New Bow Line

A new line of hunting and tournament bows will soon be available exclusively through ALOA lanes. This high quality line is being designed with the professional, the league shooter and the serious hunter in mind. Watch for later announcements on these ALOA pages.

North Jersey Majors Results

Bill Kronyak, with a perfect 300 and a league average of 295.12, topped individual statistics in the North Jersey Major League 1970-71 winter shooting at Butts & Bows Archery, Belleville, New Jersey, according to Len Cardinale's report. Kronyak received his "300" ring at a banquet after league play had ended for the season.

Rounding out the high ten average shooters, with high series in brackets, were Nick Pilavakis with 294.19 (299), Walt McVeigh, 294.16(299), Russ Stivers, 293.16 (298), Mike Rushin, 293.14(299); Mel Holsman, 292.25 (299), John Bottone, 292.22(299), Stuart Corn, 292.80 (298), Al Smith, 289.25(297) and Mike Kijesky, 287.14 (298).

Top team, with a 46½ - 19½ mark was the B&M Aluminum Co. group of Captain Bill Kronyak, Nick Pilavakis, Vince DeStefano and Steve Hudak.



Chalk 'n' Cue Advisory Staff

Wayne Burk, who shot the first 300 series ever made on Chalk 'n' Cue lanes, Joliet, Illinois, heads a three-man archery advisory staff organized "for unity in archery" in the Joliet area, according to Chuck Ladas of Chalk 'n' Cue. Joining Burk on the advisory group are Tony Muhich, an apprentice PAA member, and Dave Zupancic. They will be available for coaching and speaking to clubs, Boy Scouts, church groups and anyone else interested in archery. But by appointment only. Contact Chuck Ladas at 123 E. Van Buren, Joliet, 60432 for details.

Frontier Team Championships

Five teams competed for the title of House Champions at the official close of the fall-winter archery season at Frontier Fun Center, Wichita, Kansas, in late May. Taking top honors was the L&M Manufacturing team of Ralph Shaver, Denny Shaver, Bob Gilbert and Bill Nelson with a good 1136. Second place went to the team of Richard Rietcheck, Wayne Hephner, Wayne Ward and Max Ryan on their score of 1122.

Third, with a team total of 1109, was Ronnie Hawkins, Bob Neblett, Jane Ward and Joe Lisiecki.

Fourth and fifth place teams were also awarded trophies. These were engraved "Best in '71." Fourth was the Foley Tractor team of Jim Ward, Cliff Trax, Gerald Cotter and Dean Clark with an 1108. Fifth went to the Monday Moonlighters with an 1107. They are Roy Kirby, Marvin Adrian, Ben Brock and Mike Fulton.

Competition was open to any team finishing first, second or third at the end of their normal league season.

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PERSONNEL CHANGES AT BEAR
 Al Dawson, veteran Bear district manager, and Henry Fulmer, first Bear on-the-job trainee, have been promoted to new positions, according to Bill Sparks, sales manager for Bear Archery Division, Victor Comptometer Corporation.

Dawson will take over the Upper Midwest territory — Minnesota, Wisconsin, North and South Dakota, and a portion of upper Michigan. He is a recent winner of the Victor Comptometer "salesman of the year" award. Fulmer has been appointed district manager in Pennsylvania, filling Dawson's former position.

Ray "Hap" Fling has been appointed national accounts sales manager for Bear Archery. Fling joined Bear in 1969 and was district manager for Bear sales in Maryland, Virginia, West Virginia, Washington D.C., North Carolina and southern New Jersey before accepting the new position at Grayling.

Hal L. Drake, of Asheville, N. C., has been appointed district manager for the central East Coast states. He will succeed Ray "Hap" Fling, recently appointed national accounts sales manager.

Before joining Bear, the 48-year-old Drake spent 17 years with the Colt Patent Firearms Co. as southern regional sales manager, handling sales of firearms and archery tackle.

Robert Blair, long-time Bear district manager, has been shifted to the California-Nevada territory and Neil M. Edwards chosen to service Blair's previous territory. Blair, 38, previously lived in Lee's Summit, Missouri and managed Bear sales activities in Missouri, Kansas, Nebraska and Iowa. Edwards, 26, from Denver, Colorado, was born in Pennsylvania, and acquired seven years sales experience, both in-store and on the road. An experienced and successful bowhunter, he has also had considerable experience in both indoor and outdoor archery ranges.

Edwin R. Joseph, 24, of Elmira, N. Y., has been named Bear Archery's district manager for New York state and part of northern Pennsylvania. He will service the territory formerly covered by Henry Fulmer, recently transferred to Pennsylvania.

FOR HUNTING INFORMATION
 The National Wildlife Federation's 1971 Conservation Directory lists every state conservation department, with names, addresses and phone numbers;

all national conservation-oriented agencies; citizen's groups on state and national levels; and some international agencies. A darned good reference, particularly if you're planning to hunt out of state, it's available from the National Wildlife Federation, 1412 16th St., N. W., Washington, D. C. 20036. Send \$1.50 for each directory ordered.

SPECIAL FLETCHING BOOK
 Max Hamilton, the man who knows what there is to know about plastic vanes, has published a book called *Plastifacts* that incorporates all the best articles he's done over the years for the archery press. Includes fine tuning the bow, secret of good arrow flight, bare shaft test, playing the wind, symptoms and results of freezing, and more. \$2 from Arizona Archery Enterprises, 310 Crismon Rd., Mesa, Arizona 85207.

INSTANT SIGHTING CORRECTION
 When establishing new sight readings, the first shot is usually a rough guess. If it is wide of the spot, and it usually is, many archers have no idea how far to move the sight to get on the spot, says Max Hamilton, Flagstaff, Arizona.

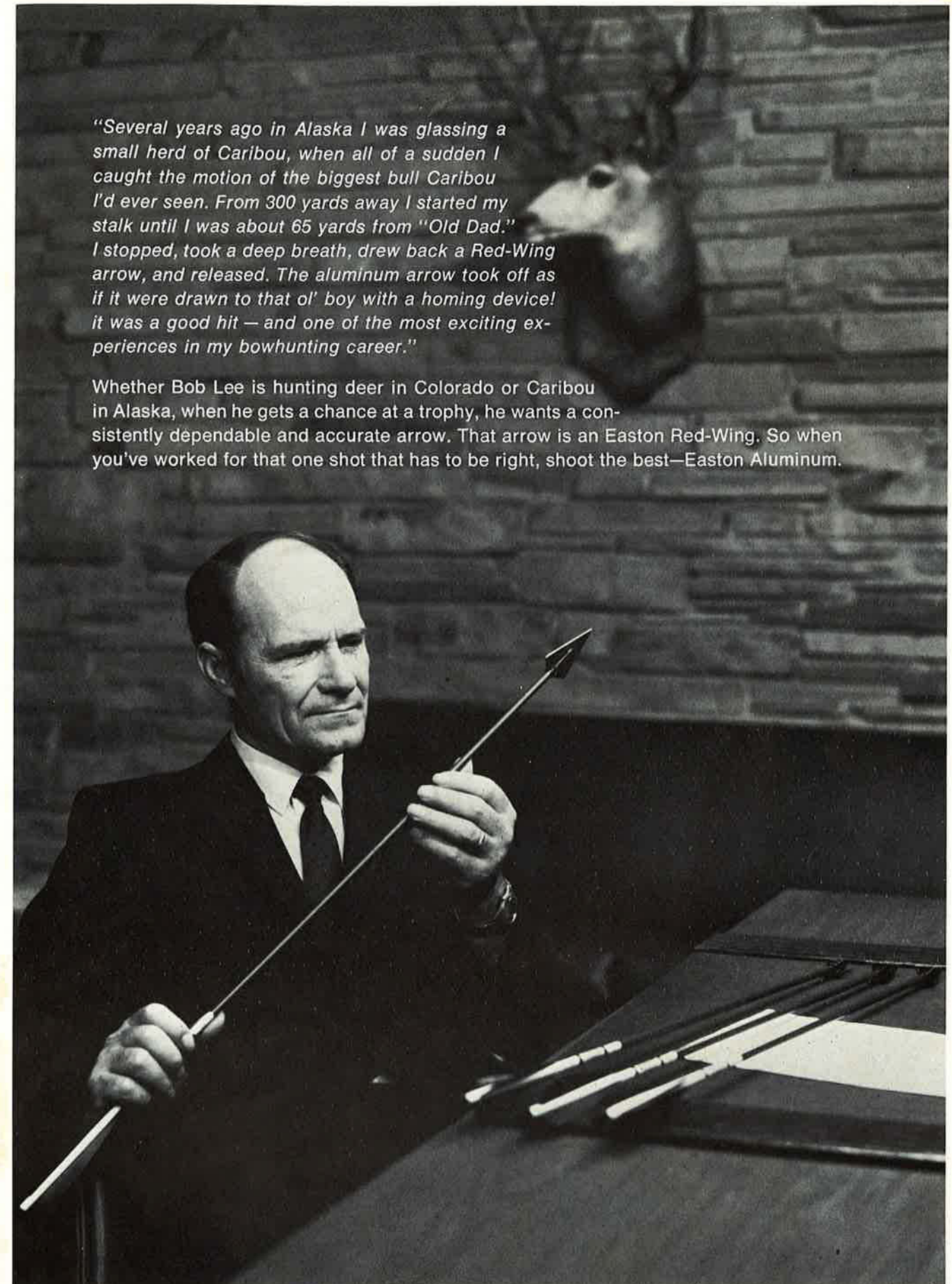
Here's a quick way to determine just how far to move the sight: Extend your arm fully toward the target, and with thumb and forefinger measure the distance between the center of the target and where the arrow struck. This gap represents almost exactly the distance you should move your sight, Hamilton instructs.

This will work on any target, any distance, and in any direction. There is no reason, and no need, to make a half a dozen corrections to establish the reading.

FOR THE CALENDAR

LOVELAND, OHIO, TOURNEY
 A \$300 guaranteed purse is up for grabs at the Loveland, Ohio, PAA Invitational July 25 at the Loveland Tri-County Archers grounds. The Ohio Archers State PAA championships will be held in conjunction with this tourney. Contact Robert Bechdolt, 1312 Tuscarora Dr., Loveland, Ohio 45140 for full info.

CHICAGO BOWHUNTERS
 Chicago Bowhunters, Inc., will host the Northeast League Championship combined with their annual Fun Fair August 15 at their range. Trophies will be awarded. Contact Al Preslicka, 4227 Grove Avenue, Brookfield, Ill. 60513 for full information.



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