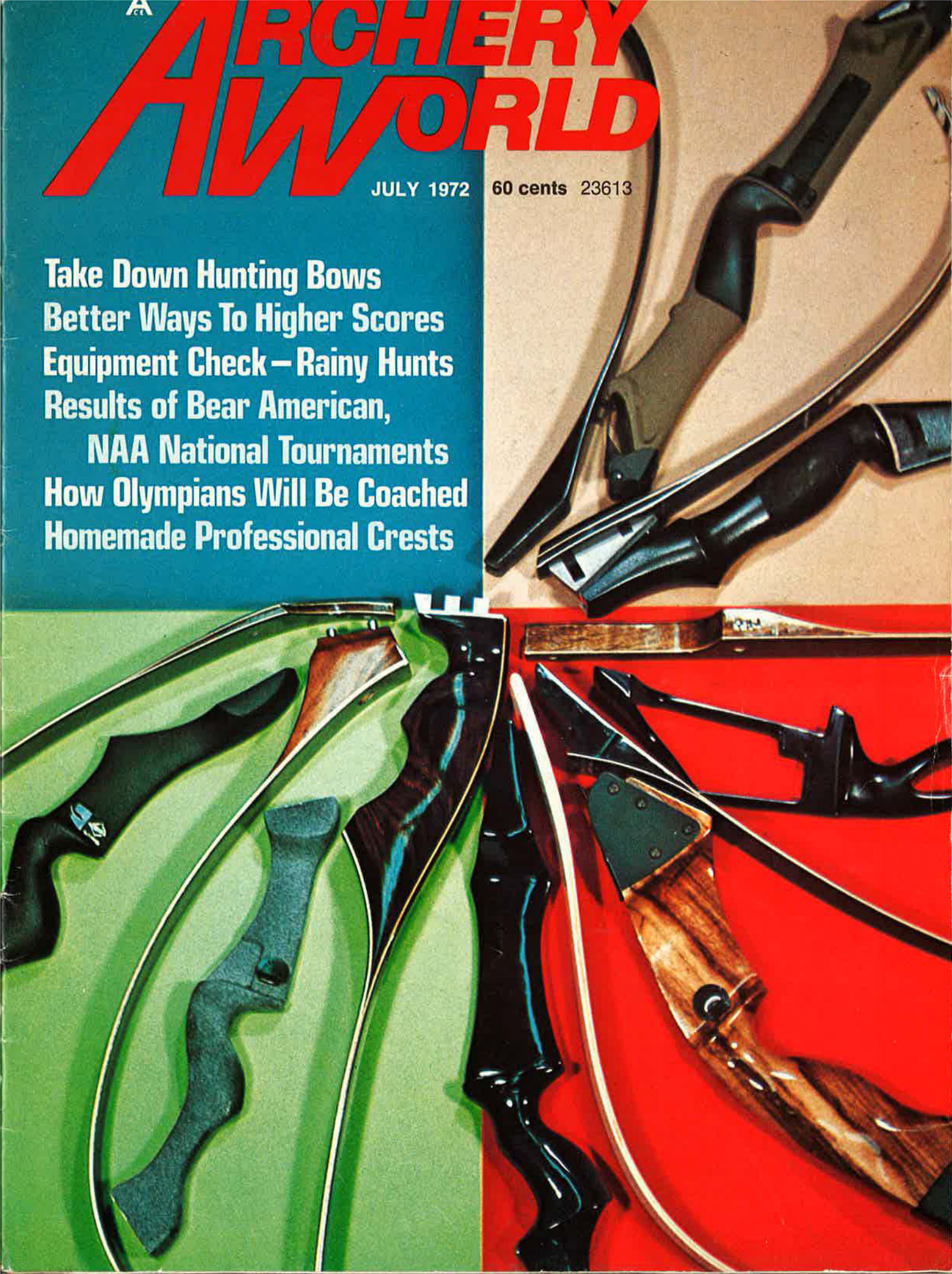


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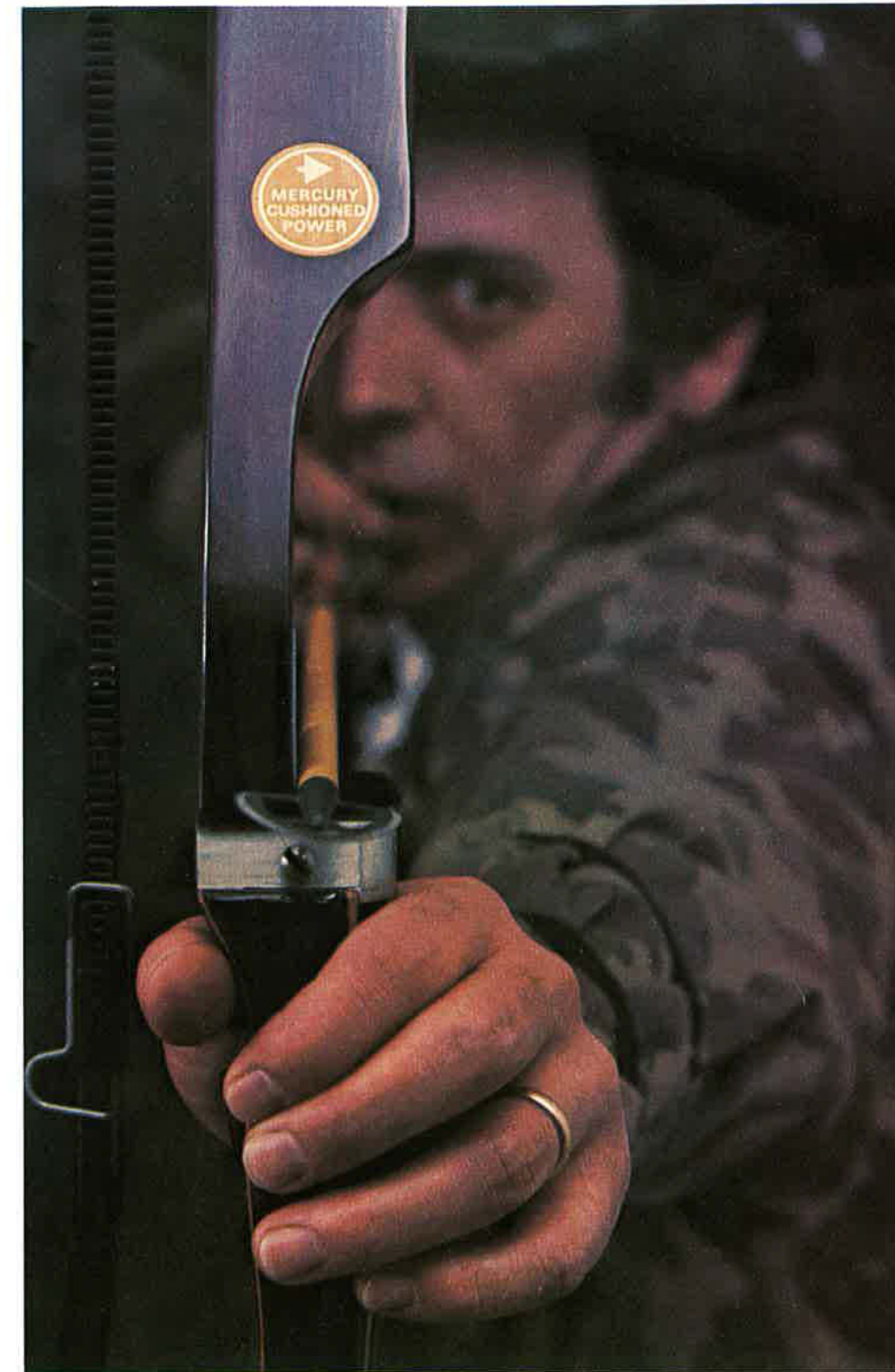
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SPECIAL FEATURES

- 10 The Take Down Hunting Bows
- 14 1972 Bear American Championships / Glenn Helgeland, Editor
- 18 Myrtle Miller, 1972 Whiffen Award Winner
- 20 How The Olympians Will Be Coached / C. R. "Bud" Fowkes & Sherwood Schoch
- 26 Great Days Afield / Robert Kirschner
- 28 NAA National Indoor Tournament Results

HOW / WHERE / WHEN

- 24 Make Them Bright / Judd Cooney
- 32 Intermediate Shooting, Part II / Tech Staff
- 35 Solving High Grouping / Tech Staff
- 44 Product Report: Skachet
- 46 Grayling Scene — 1972 PAA Nationals, Tournament of Archery, Olympic Qualifier
- 62 Equipment Checklist For Rainy Hunting / Bob Skiera, Tech Staff

DEPARTMENTS

- 8 Write On
- 36 The Pros
- 40 Names . . . Notes . . . News
- 48 National Archery Association
- 52 Archery Lane Operators Association
- 58 On The Market

COVER PHOTO: Today's bowhunter wants versatility, transportability and multiple uses for the same bow handle. The take down bows, with interchangeable limbs, can give just that.

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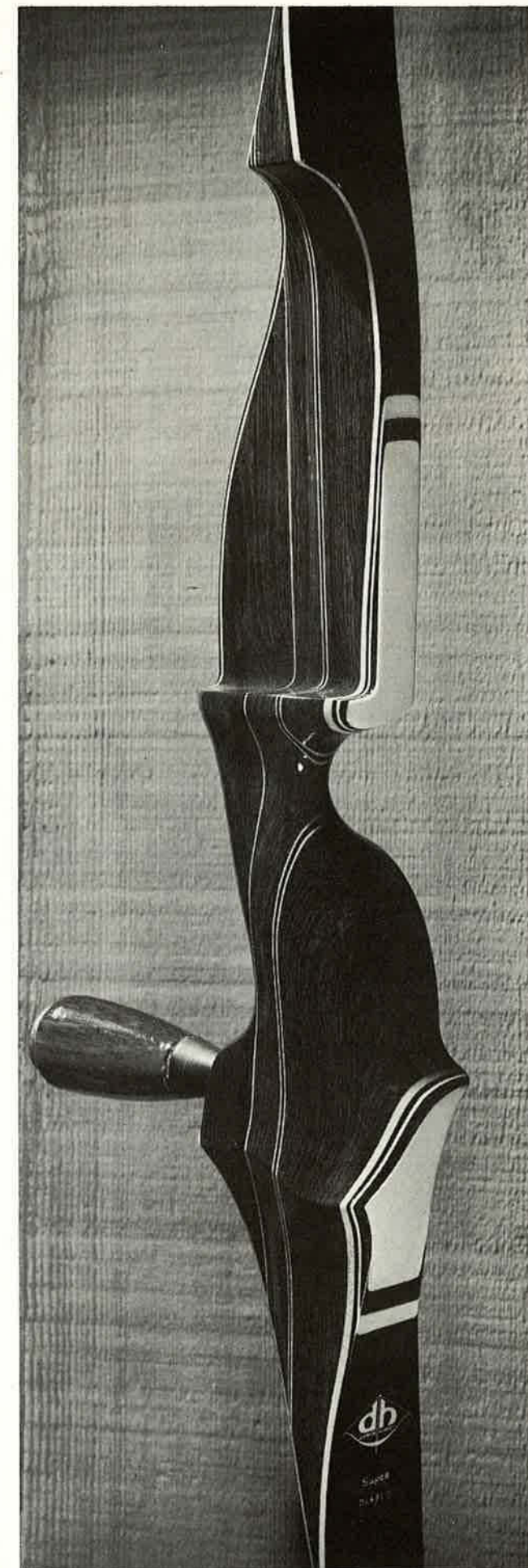
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ARCHERY NEEDS SPECTATORS

The greatest detriment to the growth of archery is lack of spectators. To get more spectators, it is necessary to educate them about the different archery events. Spectators need to know who is on top as the shoot progresses, how the shoot is scored, who are the old and new participants, who should be watched, how accurate is a bow, what weight is best for the target and for learning.

Keeping the spectator in mind, suppose we use large scoreboards for him to see from the sidelines or, better yet, the bleachers. This would enable him to determine what each archer scored per end and his running total. In my experience, I have never seen a field range laid out so that groups of spectators could follow groups of archers around the course safely.

How does field archery appear to the uninitiated? How do they get started? Up until now this has been accomplished through an archery acquaintance. This isn't the same as watching the actual competition. I believe all targets could be laid out so that the shooting would be done away from a central area. The shooters would progress on a trail from shooting position to shooting position.

Many archers shoot only one form of archery. If we combine different forms — target and/or field, broadhead rounds, PAA indoor, hunter, archery golf — into one shoot, we would really have something. For example, we could combine a shortened York, an American, 14-target field, 12-20

broadhead, 60-arrow PAA and 9 holes of archery golf. This would make a great weekend event.

This is merely my opinion. I am interested in everyone's views and suggestions.

Frank Eicholtz
San Diego, California

CONGRATS ON NEW TECH TEAM

My congratulations on your February-March issue; the Skiera, Cardinale and Henderson thing is great. A hell of a good idea. The Basics of Shooting pages and the What Caused This? will certainly get people a-talking. I'm not much on bowhunting, but doing the behind-the-scenes "Deliverance" piece was sheer inspiration.

Bill Stump
Cockeysville, Maryland

DISLIKES "DELIVERANCE" MOVIE

May I suggest that your byline for the "Deliverance" movie should have been "... most perverse archery movie ever made."

Where does a movie like this put the many men and women of archery who have built the sport up by positive example? Where does a movie like this put many state bowhunters' associations as they try to convince local people that bowhunting is a sane, safe and disciplined form of game harvesting? Remember, a picture — a Hollywood movie, alas — is more powerful than a thousand words.

The Rev. C. Arthur Latta
Hamilton, Montana

MILLS DESERVES RECOGNITION

In my opinion, a great archer was slighted in your article, "New Records at Las Vegas" (April-May). To my knowledge Bill Mills is the only man to ever shoot a perfect 900 at Vegas, yet no mention of this was made in your article. I think credit should be given where credit is due, especially since this is the second year he has done it.

Gary Wells
Phoenix, Arizona

• Our apologies for neglecting to give Bill the credit due him. This is, indeed, a great accomplishment and deserves recognition.

ENJOYS BOWHUNTING STORIES

Thank you for providing more information for the bowhunter. I'm enjoying articles like "Bowhunting in the Age of Ecology." Although interested in tournament and high score reporting, I am a bowhunter. Keep up your excellent coverage of the world of archery.

James E. Hill
Wilmington, North Carolina

Olympic Team Needs OUR Support

Allow me to make an impassioned plea to every archer.

We as American archers who love the sport of archery have an opportunity to put the word "archery" on the lips of every American with the summer Olympics in Munich.

But, this can only be done if our American team has the funds available to send the very BEST archers to Munich in September. Let's send the best and bring home the Gold Medal in archery.

For once in our archery lives, let us forget about how we shoot the bow. It matters not what type of archery club we belong to, what type of bow we use, how we release the arrow, or if our only interest is in bowhunting. We are all interested in ARCHERY.

We can prove to the world that the American archer cares about bringing home the Gold Medal come September.

To quote Cicero, "Let us not go over old ground but rather prepare for what is to come."

What we need is URGENT ACTION . . . you can change archery.

Yes, you must convince, persuade or even twist arms to get your club to sponsor a shoot for the Olympic Team Fund, or put on an archery clinic with a top pro, or hold a raffle. Contact your local archery lane operator to conduct a money shoot with all fees and winnings to go to the Olympic Team Fund.

Do something — anything — and do it NOW. Call your club or state president, lane operator or pro archer and start the arrows flying for the dollars needed to send the very best to Munich.

We as proud Americans, who are proud of our archers, must make it our responsibility to see that the archery gold is ours.

If we don't support our archers, the fault is yours and mine. Let it not be said that, "the American archer did not support his share of the Olympic Team Travel Fund."

James S. Dugan
Stamford, Connecticut

BELIEVES IN CHEMICAL ARROWS

I note with interest the very noble attitude of Keith C. Schuyler, Berwick, Pa., in respect to making quick kill shots on deer ("Where Not to Shoot" in February-March). It would also be interesting to know what Mr. Schuyler's attitude is on the use of the chemical arrow which is 100% effective in satisfying his criteria of "not just try for blood, but shoot to kill — as mercifully as possible." I think that any archer who shoots at a deer with anything less than chemical insurance is an irresponsible hunter.

James H. Whatley, Jr.
Vicksburg, Mississippi

APPRECIATES COLLEGE COVERAGE

I would like to express my appreciation of your coverage of collegiate archery programs. At a time when collegiate archery programs are still in a primitive stage as a rule, it is encouraging to note that progress is being made. Keep up the good work.

Duane Walsh, Archery Instructor
Georgetown College
Georgetown, Kentucky

LAS VEGAS REPORT

I really appreciated the detailed listing on the equipment used by the winners at Las Vegas. Keep it up!

John W. Zimmerman
Big Spring, Texas

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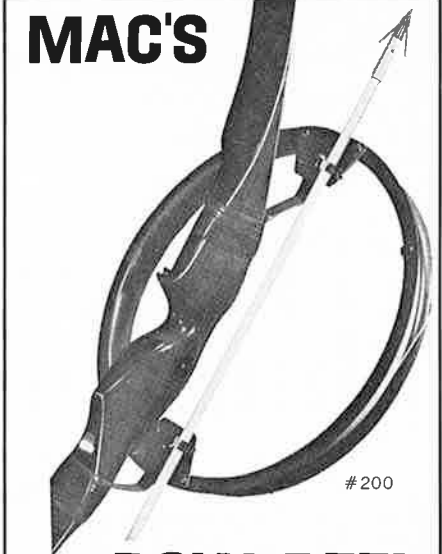
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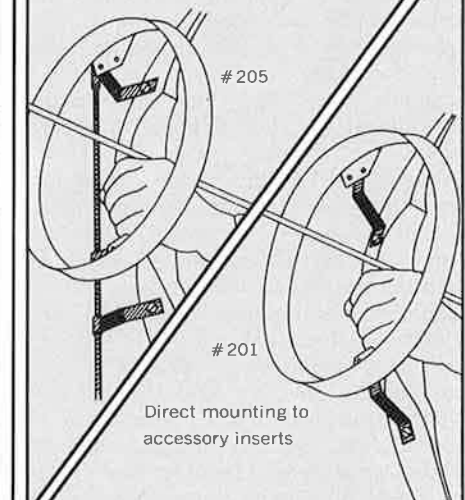
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DEALER INQUIRIES INVITED

More and more of today's bowhunters are demanding versatility, transportability and multiple uses for a basic bow. Here's a look at the bows designed to meet this demand

The take down hunting bows

BIG QUESTION: I can only afford one bow; what's the best? Answer: Get a bow that's more than one bow. Consider the take-down.

Take-downs have definitely arrived. They have been on the scene for just a few years, and have seen growing interest among target shooters and hunters. Some of the impetus has come from manufacturers, some from shooters. In fact, quite a bit from shooters. Earl Hoyt, whose standing in the archery ranks is renowned, said "Demand from the market. People are traveling more. No question about it, the take-down has everything its way."

There were three new take-downs introduced at the National Sporting Goods show this year—by Hoyt, Wing and Golden Eagle—bringing the total of hunting oriented take-downs produced by major manufacturers to 13. The existing take-down hunters are produced by Bear, Wing, Ben Pearson, Herters, Carroll, Indian, Wilson Brothers, Magna-Flite, Groves, and Plas-Steel. Wing actually is represented in the new and the old, for they already had the Presentation II models, and this year introduced their Slide-Loc system. The Hoyt and Golden Eagle take-down hunters are brand new additions to their respective lines and are not available yet, but will be by hunting season. In addition, Mountaineer will introduce a hunting take-down before the 1972 hunting season. The Golden Eagle and Mountaineer take-down hunters are not shown in the enclosed photographs.

The take-down was an inevitable evolution, for several reasons. (1) Archers forced this evolution because of their hunger for a multi-use bow design. (2) The diversity of limb combinations with a single handle that fits the archer makes the old one-bow archer obsolete. (3) The compactness and portability of such a design were needed by the growing numbers of bowhunters that are on the move, not just within their own state, but from state to state and on longer

special hunts involving a diversity of transportation—backpacking, camping, cycling, flying—all demanding compactness.

This style bow also has a bit of a building tradition about it. It can be, and is, a fine instrument that can be proudly handed down from father to son like the family guns have been handed down and cherished. Owen Jeffreys, Bear Archery's bowyer and designer of one of the finest take-down bows in the field, explains "Fred stresses the point in the take-down bow that before he retires from archery he wants to highlight his years with a bow that a father can use, and then say 'Son, I'm about done shooting the bow. You take it and shoot it, and when you're old give it to your son and let him shoot it.'"

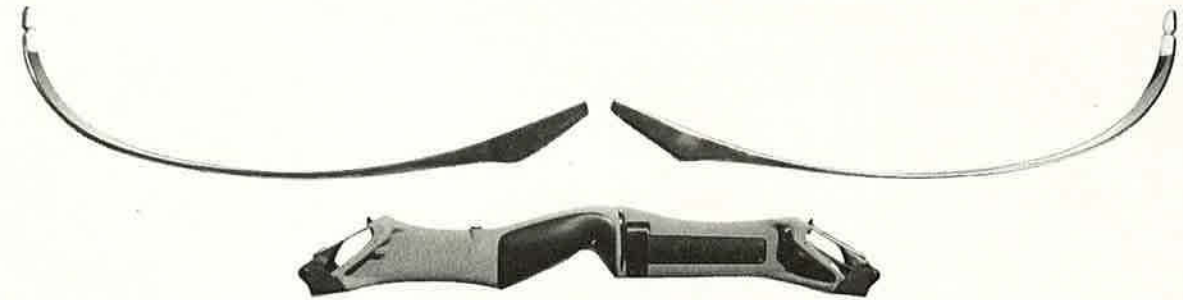
This is a heritage factor that has never before existed in archery, mainly because the materials were not as permanent as they are today, nor as diverse. The bows should have the lifetime of a rifle, because the new materials won't break down under long service.

For instance, the metal handled riser or specially-processed wood riser is stronger, and the interchangeability of limb weights allow father and son to use the same basic handle for hunting, field and target work—lighter limbs for training and target, heavier limbs for hunting.

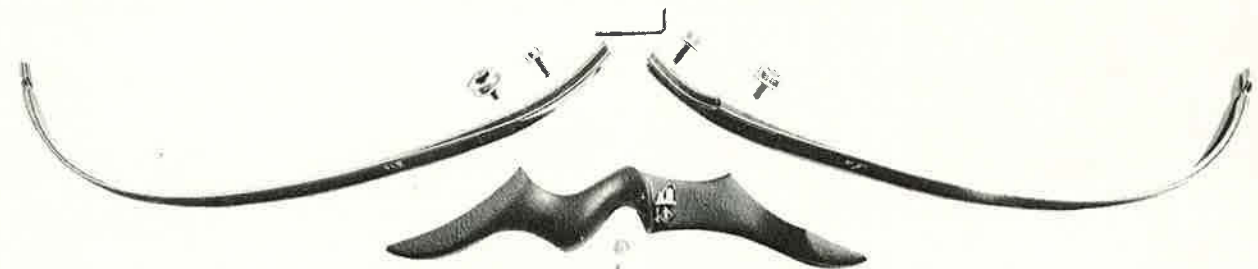
An added bonus to this take-down construction is the better dynamic balance created by heavier and stronger materials like vacuum impregnated wood, ebonite or other composite materials and metal, which means it is no longer necessary to have a heavy handle (to control riser twisting). The bow can now be dynamically balanced where the weight does the most good during the shot—out on the ends of the riser. Handles can be thinner, too, and they're easier to hold and will torque less. With the weight on the ends of the riser, vibrations from the shot come down the limb and are dissipated at the limb



Bear Victor Custom Magnum and Custom Kodiak Futurewood handle



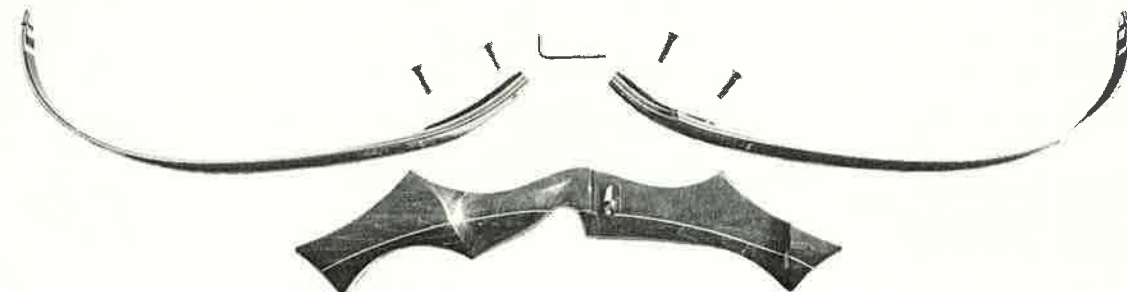
Bear Victor Magnum and Victor Kodiak magnesium handle



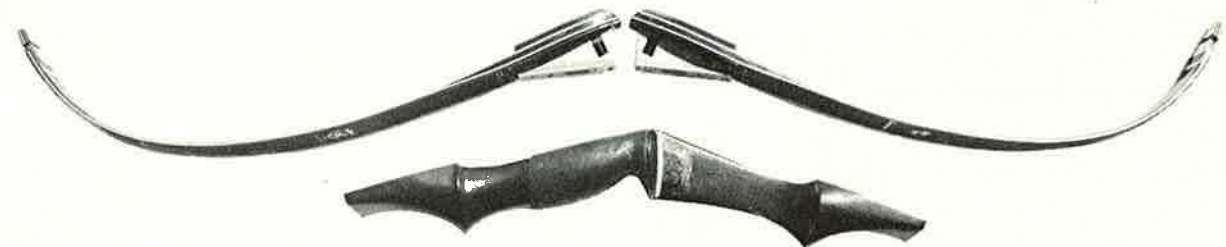
Carroll Gentleman Jim Hunter aluminum handle



Ben Pearson Mercury Marauder TD



Wing Presentation II Wingwood handle



Wing Slimline Competition II Hunter magnesium handle

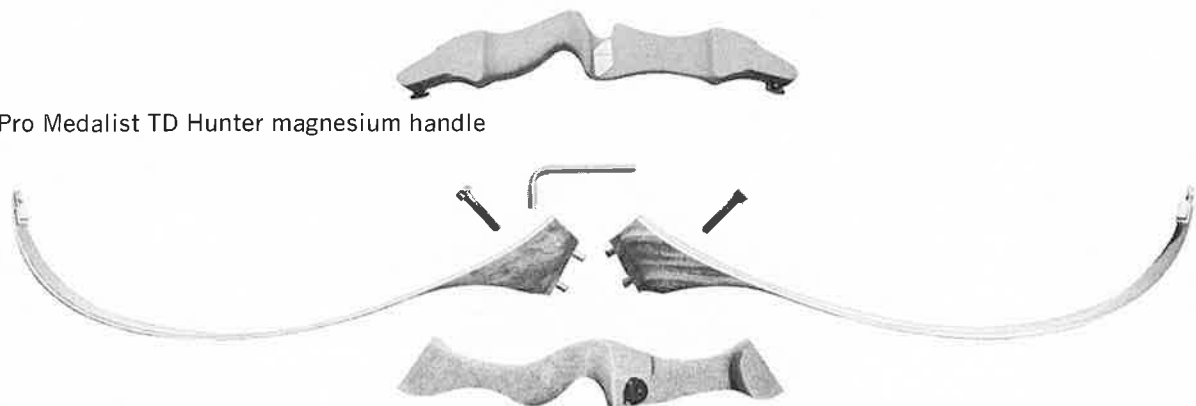


Herters Model 62 Magnum Hunter aluminum handle

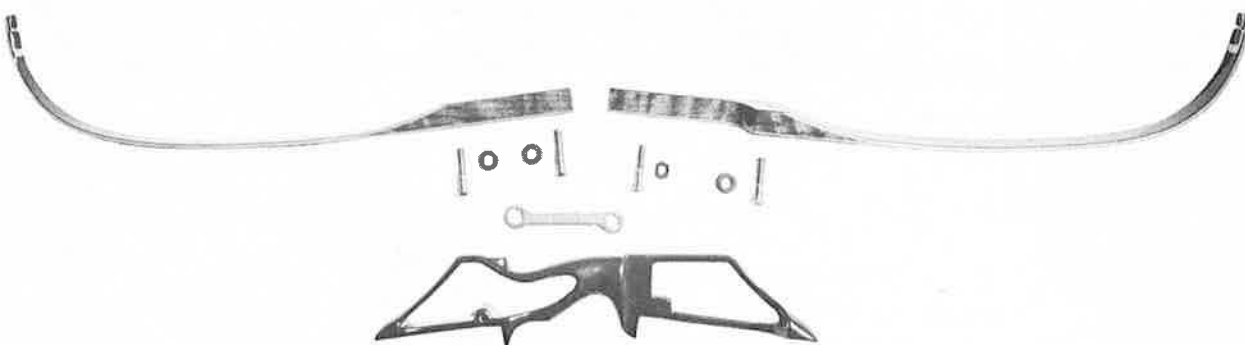
Herter Model 62 Magnum Hunter wooden handle



Hoyt Pro Medalist TD Hunter magnesium handle



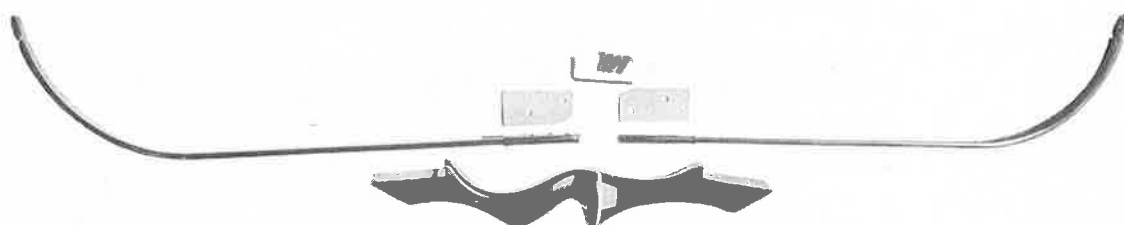
Groves Magnum II metal handle



Wilson Brothers Black Widow aluminum alloy handle



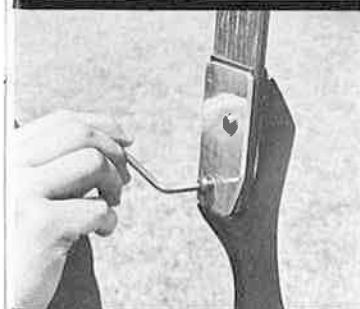
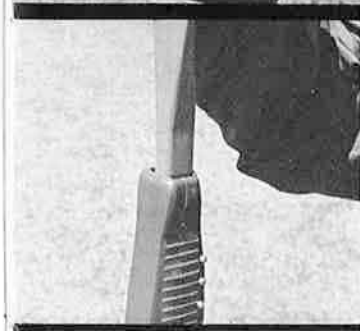
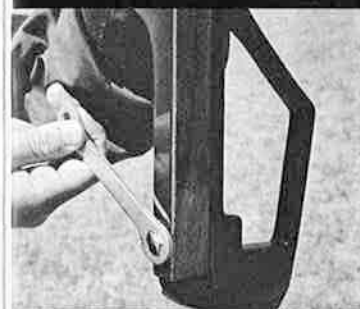
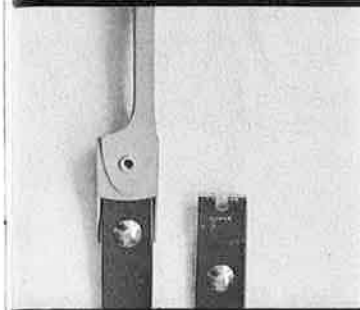
Indian Comanche fiberglass handle



Plas/Steel Products Bushwhacker I aluminum handle



Magna-Flite Maximum magnesium handle



There are two basic concepts—take down and take apart

attachments, thus smoothing the shot and making the handle vibration free, or nearly so.

The other thing that has happened is that with the advent of the stronger, twist-free metal and special wood handles, centershot is no longer a problem. So the bows are much easier to set up and will shoot several arrow sizes, including the heavier arrows, without any special set ups.

Actually, there are two basic concepts of these bows—take-apart and take-down.

The take-apart concept involves the use of special tools to attach the limbs to the handle, and usually involves the use of Allen wrenches, box wrenches or a coin. This style of attachment takes longer to assemble and disassemble. The take-apart design is a positive attachment that allows the limbs to be changed with ease and the bow to be stored compactly, but you will find that on a day-to-day basis the archer will usually be using a long case to carry his bow.

The take-down bow has the same features as the take-apart—easy limb interchangeability, compactness of storage and positive limb attachment, but has the added feature of quick assembly and disassembly without the use of any tool. They can be taken down or set up in just a few seconds, and are usually carried knocked down between shooting times.

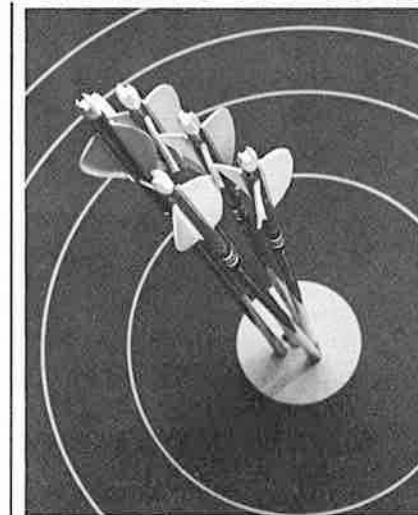
Here, and on succeeding pages, is a look at the major manufacturers' contribution to the take-down hunting bow field. You'll find there is a wide range in designs, something to fit varying degrees of need.

Some models are drilled and tapped for bushings to accept hunting stabilizers, screw-in fish reels, hunting sights and quivers. On others you can mount a hunting quiver under the limb hookup bolts. A couple have broadhead cutouts so you can keep your hunting arrow length the same as your target arrow length. Some will also accept a pressure button.

Some have one standard riser length; other have two or three riser lengths. Some have optional grip styles, customized and standard; a couple of models have removable and interchangeable grips. All are available in the normal ranges of limb weights and lengths.

The details are too many to give in the space available here. Suffice it to say that when you start looking at take-downs, you're going to have enough goodies to choose from to keep you enjoyably occupied for quite a while.

THE GROUP TIGHTENERS!



BJÖRN NOCK

Bjorn nocks are precision molded from a high-quality plastic and with a flat-lobed design that helps eliminate finger pinch. The Bjorn nock also incorporates a "snap-on" feature that prevents misnocking and "dry-firing," and is especially helpful for hunters desiring that quick, sure, "cold-fingered" shot. Available in 1/4", 3/8", and 5/8" sizes and in a full range of solid and easy-to-see fluorescent colors. Soon to be produced in 1/2" and 1 1/2" sizes.



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• Spectators tend to crowd behind the top targets, and here they were jammed in tight as action drew to a close late Sunday afternoon.

• Lu Shine, a top women's pro, kept a sharp eye on final shooting.



• Hank Benedict, left, and Fred Bear spent time talking archery with Mrs. Myrtle Miller, winner of the 1972 Larry Whiffen Memorial Award.



• The Open champs, Hugh Shaw and Ann Butz.

SHAW, BUTZ & A BUNCH OF KIDS



• Winners can come up with a variety of facial expressions, like this group of JOAD shooters and attendant dignitaries.

• THE BEAR demonstrated proper congratulatory technique, via a true bear hug, when congratulating Jody Brown, Cincinnati, who recorded the first perfect score ever in Intermediate girls JOAD shooting.

HEY THERE, you archers up on the championship line . . . look out for the kids! The Junior Olympic program at the 1972 Bear American Indoor Archery Championships had around 275 kids on the line, a record. Jody Brown, Indianapolis, shot the first perfect 540 in girls JOAD competition ever, and three guys, Dave Wroblewski, Detroit, Ray Wolessczak, Jr., West Seneca, N.Y., and Bill Rankin, Waukesha, Wis., all recorded perfects in boys shooting. As the television sportscasters would say, "that's some kind of shooting".

This is not meant to detract from the fine shooting of Hugh Shaw and Ann Butz, men's and women's open champions, and all the other fine rounds in open and amateur competition, but just a friendly warning that there might be a large, eager bunch of people breathing down your necks in a few years.

Hugh Shaw, Wellman, Iowa, stacked a 300—the only 300 shot—on his opening day 297 to go into a shootoff with Al Werner, Mayfield Heights, Ohio, in the men's open championship. In an end-by-end shoot, instead of arrow by arrow, Hugh came out on top after the second end.

Ann Butz made it two big wins in the year when she shot a record-equalling 596 in women's open competition to nail down that crown.

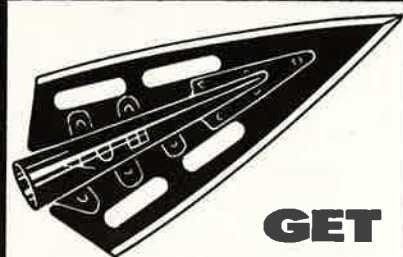
In the Shaw-Werner shootoff, Werner let down three times in the second end and Shaw was able to get two arrows ahead of him early. "I wanted to get ahead of Al because it put more pressure on him," Shaw said afterward. "He's a great competitor and a tough man to beat."

With Ann Butz finishing only one point behind the top two men, there was a while during the final ends when a shootoff among all three seemed a possibility. That would have been interesting, and as Al Werner said later, "I just knew I was going to lose a shootoff to Ann." But it didn't happen, and will have to remain as a tantalizing possibility for a later tournament. The way Ann's shooting, it's entirely possible.

Shaw said, "This is the biggest tournament I've won. It's one of two I've wanted to win since turning pro. The other is the PAA Nationals." He gave that a good shot last year, but ended in a tie for second place.

He's a competitor, and he prepares for it. "I try to practice every day. If things are going well, I shoot an hour to hour and a half every day. If not, I shoot until things smooth out."

Repetition and consistency are the keys, he says. "There are so many things involved in shooting a good arrow that



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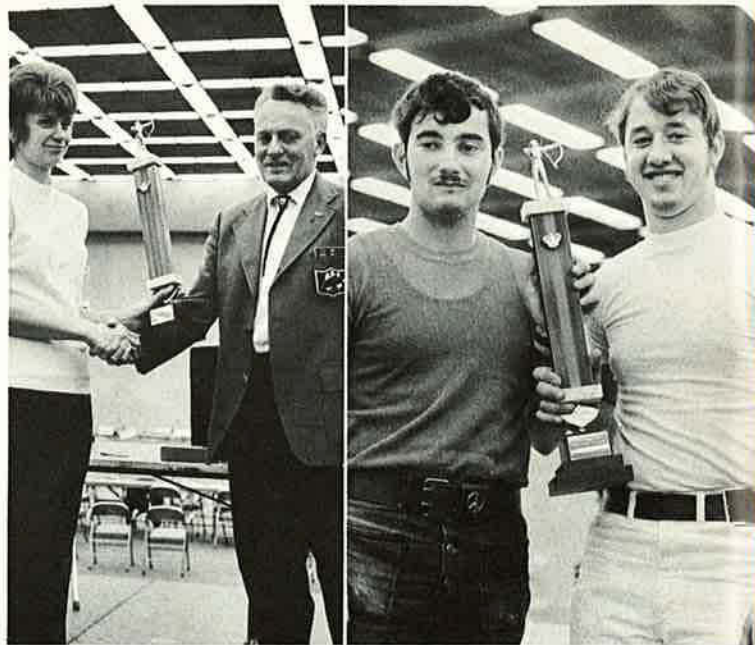
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Shootoffs and all around good shooting kept interest high



• Barbara Hoburg, women's amateur champ, accepts her trophy from Bob Kelly, Bear Archery, and Richard White and George Papenfuss display the men's amateur championship trophy for which they tied.

you have to get grooved."

He shoots a lot with Ed Rohde, Muscatine, Iowa, and Stan Warner, North English, Iowa. "They're as good competitors as there are, and I've learned a lot from them."

For instance, you may have noticed the thumb-behind-the-neck anchor Shaw uses. He learned this from Ed Rohde. "I went to it because it was more consistent for me. It's solid and keeps me from coming forward on release."

A member of the Ben Pearson advisory staff, Shaw concluded "we all enjoy winning."

Ann Butz got off to a rocky start on her way to the top — she dropped her first arrow of the first end Saturday into the four ring. From there on she shot clean for a great 299 round. She was shooting her backup bow, for her main bow was dropped off the rack a week and a half before the tournament and took a heck of a whack. Rather than keep worrying whether something might have been knocked out of kilter, she switched to the backup bow, shot a 298 and stayed with it. "It just seemed psychologically better to go with the second bow," she explained.

Dave Young and George Cordeiro of the Bison Archery team, Buffalo, N. Y., and Dave Jackson, of the Jo-Jan Sports-equip team, Baltimore, Md., may have discovered a new way to amass total earnings. They all made trips to the award table for championship flight cash. ALOA team cash, and Team Bear cash. However, a quick check disclosed that none were suffering from the added walking.

Now take a look at the amateur men's freestyle division. That's some

bunched scores — Papenfuss and White tied for first with 593 (they went through eight ends of shootoff and stayed tied, so it was declared a draw), and McKinney and Lieberman tied for second with 592, Don Dabelow third with 591 and Bill Rankin just out of the trophy line with a 590. It ought to be an interesting summer watching these guys and others prime for the Olympic Trials.

Barbara Hoburg won her second big amateur title in two weeks by notching a 578 at Cobo. The previous weekend she took the women's championship at the NAA Indoor National at Harrisburg, Pa.

George Helwig and JOAD coaches at the tournament were more than pleased with the quality and quantity of JOAD competition. "It's the highest number we've ever had here," Helwig said, "and when you note the three Intermediate boys perfect scores, Jody Brown's perfect in In-

HUGH SHAW — MEN'S OPEN

Hugh shoots a Ben Pearson Golden Sovereign, 66 inches and 35 pounds at his draw. Custom grip, nocking point 3/8-inch above ninety degrees, a 12-strand string, brace height of 8 3/4 inches, low wrist. He uses a non-adjustable ParaRest (brush), and a soft self-made pressure point, clicker draw check, Killian Check-it pin sight, silver pin color, one 22-inch, 25-ounce Mercury stabilizer, two Hoyt 10-ounce counterbalance balls below the handle, a Kantpinch hair tab. Arrows are XX75 1816 Mercury-Easton cut to 27 1/2 inches. Does not use weighted points. Three fletchings, helical, feather three inches long and one-half inch high, Bjorn nocks.

termediate girls, Don Dabelow's 538 in Junior boys, that's some fine competition."

The Ambridge, Pennsylvania, JOAD club was here in force — 30 archers under the guidance of Tom McLaughlin. McLaughlin reports they're getting their own field range.

Bob Kelly, Bear Archery Company, Division of Victor Comptometer, said afterward, "We thought all the attendance was good. Open and amateur numbers were about the same as last year or up a little (around 675) and the JOAD entry was up quite a bit.

"We were pleased with the overall shooting quality, and really impressed by the JOAD shooting. It looks like the U.S. has plenty of good contenders not only for the 1972 Olympics but for 1976 and beyond. All of us at Bear are excited about the Junior Olympic program and what it does for schools and clubs."

The unofficial hit of the show was THE BEAR. Not just a bear, but THE BEAR. Tom Prill sweated and slaved inside that bearskin for two days, and he quite obviously enjoyed it. He hugged every pretty girl he could get his paws around, he shook hands with all the young guys, and he generally hammed it up and had a good time. In fact, he could probably outdraw the Pied Piper, for the line of kids trailing him around at times was quite long. Dick Lattimer gets the credit for the idea, and Tom Prill gets the credit for a bearish job well done. Fred Bear said next year he's going to be the bear and congratulate all the winners in true bear style.

Bear Archery donated \$500 to the National Archery Association team travel fund, for which Clayton Shenk, executive secretary of the NAA, expressed the NAA's due thanks. The Archery Manufacturers Organization (AMO) matched that with a \$500 contribution of their own, presented to Shenk by Ernie Root.

And Mrs. Ed (Myrtle) Miller received the 1972 Larry Whiffen Memorial Award in a special ceremony right after the shooting. For a full report of this, see the next pages of this issue.

ANN BUTZ — WOMEN'S OPEN

Ann shoots a short riser Golden Eagle, 66 inches, 31 pounds at her draw, nocking point 3/16-inch above ninety degrees, standard grip, 10-strand string, brace height of 9 1/8 inches. She uses a non-adjustable Flipper rest, Berger Button, clicker draw check, Pro-Line red pin sight, one 24-inch Shakespeare Pro tapered stabilizer, tab. Arrows are 1616, cut to 27 1/4 inches, 80-grain weighted points, three-fletched with die cut feathers at two degree offset spiral, three-inch long feathers, Pro-Line SnapVent nocks.

MEN'S CHAMPIONSHIP

Shaw, Hugh	597	\$1,000
Werner, Allan G.	597	600
Robinson, Steve	596	450
Helgason, Edward O.	596	450
Bringinghurst, Bob	595	292.50
Robinson, Art	595	292.50
Jackson, David	595	292.50
Berger, Victor	595	292.50
Young, Dave	594	275
Hellman, Keither	594	275
Bednar, Bill	594	275
Rohde, Ed	593	262.50
Lizzio, Al	593	262.50
Gilley, Rick	592	250
Wood, Terry	592	250
Barrie, Bob	592	250
Miller, Dave	591	235
Hagemeyer, Wes	591	235
Wenzlick, Dale	591	235
Cordeiro, George	590	225
Krause, Wendell	589	110
Lamar, Dick	589	110

WOMEN'S CHAMPIONSHIP

Butz, Ann	596	\$600
Hansen, Jody	587	400
Drake, Lucy	582	300
Pfeilmeier, Nancy	580	200
Marten, Linda	578	150
Tillberry, Margaret	577	140
Ingle, Ida	576	130
McGeeney, Jean	570	110
Dynes, Shirley	570	110
Webb, Sue	570	110

AMATEUR MEN FS

Papenfuss, George	593	First
White, Richard L.	593	First
McKinney, Richard	592	Second
Lieberman, Stephen	592	Second
Dabelow, Don	591	Third
Rankin, Bill	590	
Wade, Ray	588	
Woody, Ken	585	
Flier, Eddie	585	
West, George	584	

AMATEUR MEN BB

Morehead, Don	585	First
Flier, Mike	558	Second
McKinney, Danny	558	Third
Olson, Bob	553	
Craig, Carroll	553	
Delach, Louis	548	
Zamora, Vince	542	
Grondin, Daniel	537	
McAdams, Bill	536	
Szilvassy, R. E.	532	

AMATEUR WOMEN BB

McAdams, Martha	547	First
Wildt, Shari	530	Second
Dattalo, Rosanne	487	Third
Turner, Susan	460	

AMATEUR WOMEN FS

Hoburg, Barbara	578	First
Henley, Donna	573	Second
Mitchell, June	571	Third
Brown, Jody Lynn	568	
Bechdolt, Maureen	566	
Swarts, Cathy Jo	560	
Schram, Patti	555	
Craig, Janet	553	
Rowe, Anita	552	
Ashbaugh, Jaye	548	

FLIGHT NO. 1

Pearson, Frank	591	\$150
Bosdock, Earl	590	145
Gandy, Frank	588	137.50
Ostling, Ken	588	137.50

FLIGHT NO. 2

Leach, Vic	585	\$130
Drake, Dick	583	125
Wilson, Dennis	582	120
Donahoo, Paul	580	23
Lovell, George E.	580	23
Sawmiller, Kent N.	580	23
Roth, Fred	580	23
Moll, Junie	580	23

FLIGHT NO. 3

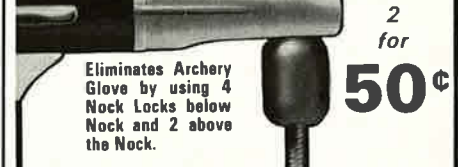
Perigo, Jack H.	581	\$105
Watson, Tom	581	105

(continued on page 38)

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MYRTLE MILLER of Teela-Wooket Archery Camp Wins 1972 Larry Whiffen Award



• Myrtle Miller, left, shows her pleasure over the award tray just presented her by Mrs. Shirley Whiffen, widow of the late Larry Whiffen.

"I HAD TWO semesters of archery in college. It was the one sport I *totally* disliked!"

That's not exactly the comment you'd expect to hear from the woman who had just won the 1972 Larry Whiffen Award for outstanding service to archery. But that's what Mrs. Myrtle Miller says of her introduction to archery. She credits Russ Hoogerhyde, a perennial national archery champion of thirty years ago as setting her on the right path — a path that led to the founding of Teela-Wooket Archery Camp in Roxbury, Vermont in 1937. And to continued outstanding service to archery every year since then.

In fact, it is estimated that over eight and a half million people have received valuable archery training under the guidance of TWAC and TWAC-trained instructors since the camp was started. A survey made by Mrs. Miller's husband, Ed, in 1970, also shows that over eleven hundred archers have taken the TWAC instructor's course, and of these, 658 have qualified for the instructor's certificate which is recognized as a qualification standard by educational institutions throughout the United States, Canada and fifteen other countries from which archers have come for training.

"It's been enjoyable, and very satisfying," Myrtle says. And somewhat unusual, too, as witness her early attitudes.

"When I signed my first teaching contract (Ottawa Hills, Grand Rapids, Mich.) it was under the condition that I not teach archery. My only gain from those two semesters of college archery was a bruised bow elbow, sore fingers and hitting the stone wall behind the targets.

"Russ Hoogerhyde was in Grand Rapids at the time, and all my students knew that at that time he was my brother-in-law. The kids repeatedly asked for archery in their physical education program.

"So, during a summer recreation session I took a reluctant noon hour to have Russ coach me. *In one hour I learned more about common sense and basics of shooting than I had in my two semesters of college archery!* I was able to hit the target and knew why.

"Up until then I'd been a golfer, but Ed became interested in archery through Russ, so I began concentrating on archery. This concentration grew into an archery club of 400 kids in the high school.

"We moved east and I concentrated more efforts on shooting and began winning titles, which put me in a good position to have physical education people be receptive to what I had to say.

"I wanted to do something for my profession, for archery and for young people. So Ed and I organized TWAC with the specific objective of training teachers to be truly qualified to teach, thus making real archers out of their students and giving them an enjoyable lifetime sport. My hope was to cut down juvenile delinquency. I knew I could reach a few kids myself, but through TWAC I could reach many more."

And since that start, Teela-Wooket Archery Camp has been running two sessions each year. There will be only one session this year — June 16 to June 27 — because colleges now start earlier and overlap with the traditional timing of the second session.

In her acceptance comments at the Bear American Indoor Archery Championships, Myrtle stated that 59 percent of the current TWAC staff members were TWAC scholarship recipients when in high school or college. So they do come back to express their appreciation. The staff currently numbers 80, all of whom are volunteer. "TWAC has never been profitable. My husband's business friends think we have rocks in our heads, but we consider that as being beside the point. The scholarships, and the instruction, give value that money can't pay for," she says.

The efforts of Myrtle and Ed Miller show amazing results. For instance, in intercollegiate archery, records kept since 1966 show that in that year the top five teams were coached by TWAC-trained instructors, in 1967 nine of the first ten teams, in 1968 fourteen of the first fifteen, in 1969 the first ten teams and in 1970 ten of the first twelve teams.

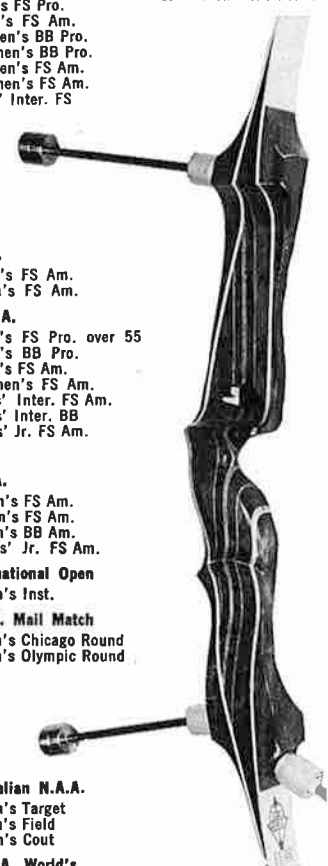
The list could go on and on, with names of archers and coaches and teams and colleges and high schools but suffice it to say that Myrtle Miller has contributed more to archery than anyone fully realizes. *Archery World* extends its congratulations to the 1972 winner of the Larry Whiffen Award.

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1st — Boys' Youth BB Am. | 1963 N.A.A.
1st — Men's Pro. |
| 1970 N.A.A.
1st — Men's FS Pro.
2nd — Men's FS Am. | 1967 N.A.A.
1st — Men's FS Am.
2nd — Men's FS Am.
3rd — Men's FS Am. | 1962 N.F.A.A.
1st — Boys' Inter.
2nd — Men's Inst. Pro.
2nd — Women's Inst. Pro. |
| 1970 N.F.A.A.
1st — Men's FS Am.
2nd — Men's FS Am.
4th — Men's FS Am.
5th — Men's FS Am.
1st — Women's FS Pro.
2nd — Women's FS Pro. | 1966 International Open
1st — Men's FS Pro. | 1962 N.A.A.
1st — Men's
2nd — Women's |
| 1970 P.A.A.
1st — Women's | 1966 N.F.A.A.
1st — Men's FS Pro.
2nd — Men's FS Am.
1st — Women's BB Pro.
1st — Women's BB Pro.
2nd — Women's FS Am.
1st — Boys' Inter. FS | 1961 N.F.A.A.
1st — Men's Inst. Pro.
1st — Men's Inst. Am. |
| 1970 Amer. Indoor
1st — Women's FS Pro. | 1966 N.A.A.
1st — Men's FS Am.
3rd — Men's FS Am. | |
| 1970 Eagle Cup
1st — Men's | 1969 F.I.T.A.
1st — Men's
2nd — Men's
3rd — Men's
4th — Men's
5th — Men's
1st — Women's
2nd — Women's
4th — Women's
6th — Women's | 1965 N.F.A.A.
1st — Men's FS Pro. over 55
1st — Men's BB Pro.
1st — Men's FS Am.
1st — Women's FS Am.
1st — Boys' Inter. FS Am.
1st — Boys' Inter. BB
1st — Boys' Jr. FS Am. |
| 1970 Ambass. Cup
1st — Men's
2nd — Men's | 1969 N.F.A.A.
1st — Men's Open
1st — Men's BB Am.
1st — Men's FS Am.
1st — Women's FS Pro.
1st — Women's FS Am. | 1965 N.A.A.
1st — Men's FS Am.
3rd — Men's FS Am.
1st — Men's BB Am.
1st — Boys' Jr. FS Am. |
| 1969 F.I.T.A.
1st — Men's
2nd — Men's
3rd — Men's
4th — Men's
5th — Men's
6th — Men's
1st — Men's FS Pro.
1st — Women's FS Am. | 1968 International Open
1st — Women's FS Pro.
1st — Women's FS Am. | 1964 International Open
1st — Men's Inst. |
| 1968 International Open
1st — Women's FS Pro.
1st — Women's FS Am. | 1968 N.A.A. Mail Match
1st — Men's FS Am. | 1964 N.A.A. Mail Match
1st — Men's Chicago Round
1st — Men's Olympic Round |
| 1967 F.I.T.A. World's
1st — Men's FS Am.
2nd — Men's FS Am.
3rd — Men's FS Am.
4th — Men's FS Am.
1st — Women's FS Am.
3rd — Women's FS Am. | 1967 N.A.A. Rankings
1st — Men
2nd — Men
4th — Men
6th — Men
10th — Men
2nd — Women
4th — Women
9th — Women | 1964 Australian N.A.A.
1st — Men's Target
1st — Men's Field
1st — Men's Coult |
| | | 1963 F.I.T.A. World's
1st — Men's |
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with Sherwood Schoch

MY MIND KEEPS GOING back to the single thing that must be present for good, accurate archery—the form that we consider classic. Good basic teaching of fundamentals is necessary if any coach is to be successful.

But there are a few ingredients that go into making a champion archer that no coach can provide. The potential champion is absolutely on his own, on desire, determination and intestinal fortitude under tournament pressure. There are motivational methods to inspire these necessities, but the archer has to want to succeed.

When I see these qualities in an archer, there is no doubt in my mind that he can be taught and coached into good scores. There are many, many good archers, but few with all these qualities of a champion. Many have the standard classic form, but they are missing some of the other characteristics. They, too, enjoy their archery, and many become local, re-

How The Olympians will be coached

"How do you coach people at the top? I think it will mainly be the polishing of the form which got them there."

gional and even state champions. But few make it all the way to the top, to the position of national, world or Olympic champion.

So I believe a coach must first be a teacher or at least fully understand the teaching methods before he or she can successfully do the job.

In keeping with this line of thinking and method of archery, I follow a basic outline of the nine steps to classic form, and then a more detailed program to achieve rewarding tournament archery. I compose the steps as a ladder, with the bottom rung being stance, then to nock, pre-draw, draw, anchor, aim, post-draw, release and follow through.

There are many accepted variations of how to attain these steps—for instance, your fine "Basics of Better Shooting" poster in the February/March issue used ten steps. But the steps were basically the same as the nine I use. They remain in the same order, and they *must* be followed every time if the archer is to shoot good arrows.

Before going on, I want to make a vital comment concerning accomplishing the methods going up the ladder.

I believe in a *positive* approach to coaching and to shooting. I believe both a teacher and a coach should know what causes misses, but should never teach a student why he misses. Instead, we should concentrate on showing how to hit—then the need to know what causes misses is eliminated.

Now, with the Olympic team, we're beyond that point, really. Our team members will be pretty well set in their ways. Most, if not all, will have the classic form; those that don't will still be able to shoot well.

It's not like taking a track man out and timing him, or moving his starting blocks a little, or changing the way his arms move.

Archery is an individual sport, and by the time the shooters get this high in competition and accomplishments, their system is grooved.

So coaching our Olympic team will basically involve as much learning on my part—if not more—than it will on the archers' part. After they earn their places on the team at the shootoff at Miami University, Oxford, Ohio, August 2-5, we'll go into two weeks of concentrated practice there.

Then we'll go to Fort Myer, Va., for more training and an Olympic reception.

During those four days of shootoff competition I'm really going to have to keep my eyes open, watching all the shooters. I'll undoubtedly concentrate more of my observations on the top targets as shooting progresses, but I won't forget the others. Some people have come from a long way back to finish high. And that could happen here.

I know many of the top amateurs in the country, and have observed their styles from time to time. But there are going to be a lot of people at Oxford that I won't know. This means that in those four days I'll have to pick up as much as I can about their various shooting styles.

Practice at Oxford

Because once we go into the practice at Oxford and Fort Myer, and then two more weeks at Munich (we're leaving August 20, to give us plenty of time to get acclimated to the new time zone, the food, the village, and all the other things that go with an Olympics) my main efforts as a coach will be to know the individuals' styles well enough to pick out and correct any little quirks they may be developing.

I can't really say how I will exactly go about it, simply because at the moment no one knows who I'll be coaching. This really presents a problem. You know, how do you coach people at the top? I've done quite a bit of thinking about it, and I think it sort of puts me on the spot.

It's something to look forward to, because I'm willing to learn, too.

However, I don't think this will be a problem with our team members. Their form is set. It's automatic. I think when form is automatic, then the aiming and everything comes easy. I think that's the big thing that these people will have polished by the time they get there.

As far as mental preparation, a lot depends on who makes the team. If there are old-timers, there's nothing you can do nor may need to do because they're set in their ways and have been through tournament pressures before.

Youngsters will be a little bit different. We'll have to boost their ego, but we'll also have to keep them calm. Again, it depends on the personalities of the people who make the team, not necessarily on their age.

One thing I'm wondering about is that people who are shooting real well now may not be shooting well then. This presents a peaking problem, especially to those in warmer areas who are shooting outside year around or for longer periods of time. They may peak out early, and the

ones starting outside later may reach their peak at just about the right time.

It's rather hard to say, but for someone who feels he or she is peaking too early, the best thing would probably be to not shoot as much. It's a strain to shoot a complete FITA round anyway.

The tryout will be over a four-day period, exactly the same as the actual Olympics will be shot, and the shooters will be able to pace themselves on that.

I don't intend to set any tough regimens. The shooters will be set in their programs by the time they get to the tryouts and the Olympics. If we were picking the team right now, it would be an entirely different proposition. But with the short time we will have, only four weeks, we could mess up somebody's shooting form with special training programs, particularly physical programs.

We'll have practice controls. We won't have somebody shooting at 5 a.m. and somebody else at 4 p.m. We'll begin that program of consistent practice hours right at Oxford, then we'll practice the same over there. This will help us make the switch a little easier, simply because of the regularity and familiarity. We want to do as much as possible in Oxford to match conditions over there.

We won't shoot a complete FITA every day; it's too tiring. Besides, everybody has a certain part of their game that they should work on. We're going to have to figure out what that part is and let them work on that. We'll look at the scores and we'll know what needs work.

Strong concentration

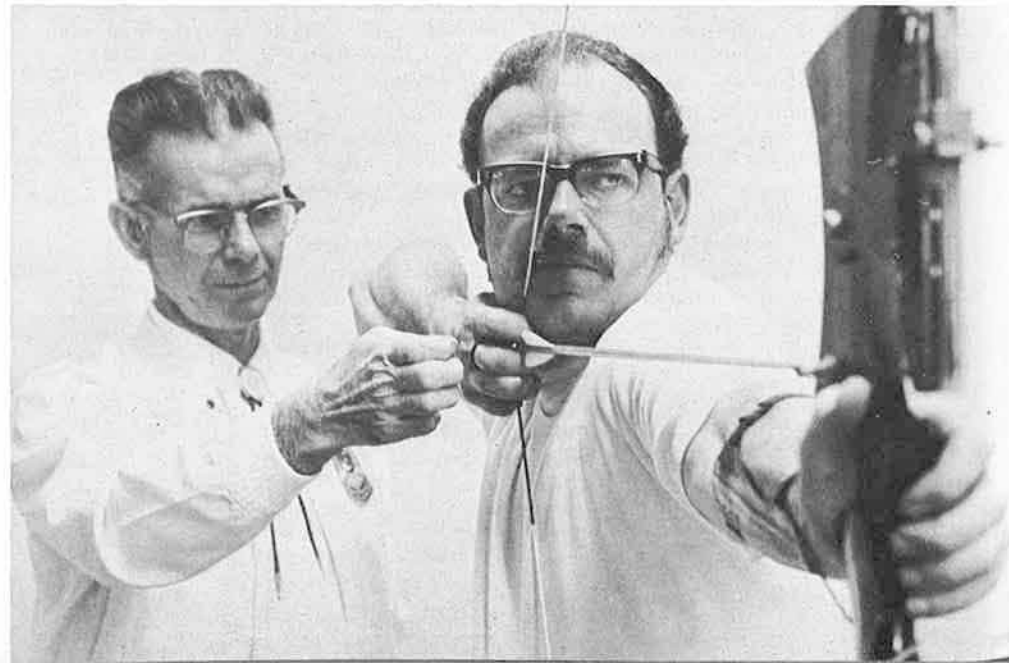
Theoretically, all the team members could be strangers, but I doubt whether that will happen. It probably wouldn't make that much difference if they were—they'll all be concentrating so hard on archery, and have this strong common bond, that there wouldn't be any feeling of "aloneness".

It will probably be up to the team members whether or not to shoot in the Nationals the week after the Olympic tryouts. It's a big thing in a person's life to have a crack at a national title, and if they're good enough shooters to have that chance they ought to be allowed to shoot.

Whether they do or not, I doubt whether there will be any letdown problems after the tryouts. At least, I hope this doesn't happen. If it does, that person and I are really going to have to scratch. But young shooters shoot day in and day out like it was going out of style, and the older competitors have learned to pace themselves. So I think that these factors—young strength and older pacing—will go a long way toward pre-



• Bud Fowkes demonstrates the mechanics of a smooth draw in photo above to his daughter-in-law Kathy (Mrs. Jim) Fowkes, who was a Pennsylvania state champion as Kathy Fekko. Photo below, Fowkes helps John Preston, a top Pennsylvania archer, with the fine points of anchoring. Photos by Sherwood Schoch.



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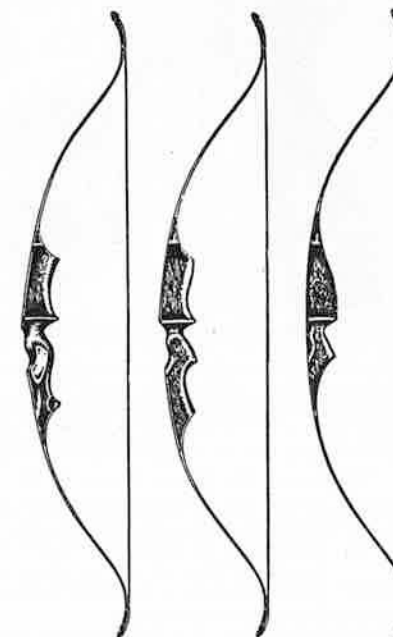
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The people will have the top weight bows they can handle, the bow that is right for them. I've seen good archers use some very light bows; I've seen some use quite heavy bows. It's really up to the individual, and whatever they can shoot best.

I don't know how the other countries will select their archers. I think our system is the fairest — take the people that shoot best at the time.

Russia will be strong, because they shoot all the time. Poland has a strong women's team. We're going to be strong; no doubt about that.

At Valley Forge in 1969 I walked the line and watched and didn't see anything much different than what we do here. There are only so many things you can do to shoot an arrow — and remember, you shoot an arrow, you don't shoot a bow — and I think the top shooters usually come around to pretty close to the same form. Some styles differ, but that's usually a personal thing.

Their bows may have some different names than ours, but they look just alike.

I think it will take something well up in the 1200s to win the Olympics. That's what it took to win the World Championship, and supposedly the best people were there.

Polish at Munich

I don't anticipate any extra work in Munich. We'll maintain our regular schedule. We'll do our practicing the way we'll shoot the Olympics; that's the way you prepare for a tournament.

You take your form into a tournament; you certainly don't find anything there.

By the time we get there, we'll all know each other pretty well. I'll know their shooting styles simply because I'll have watched them shoot a lot. Then we'll just hone things and polish, polish, polish.

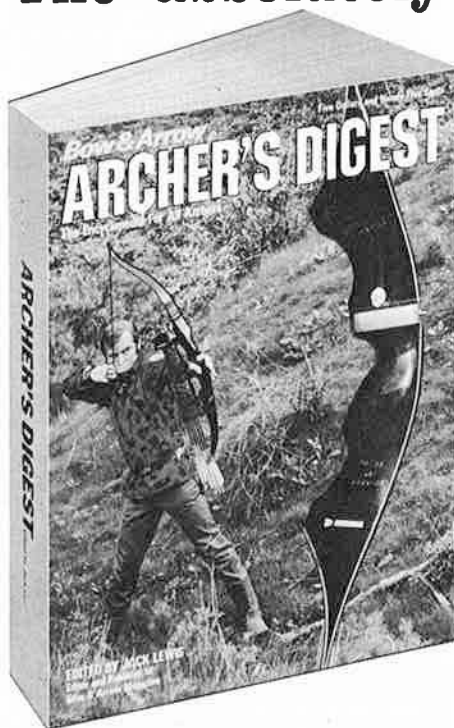
Shooting at the Olympics will have the two long distances the first day and the two shorter distances the second day. The third and fourth days will be repeats of the first two.

We'll have good team spirit. The members will have worked long hours getting to the qualifiers, to the Olympic tryouts, and then to the Olympics. They're going to have the desire to make a good showing, believe me. They'll put forth their best efforts.

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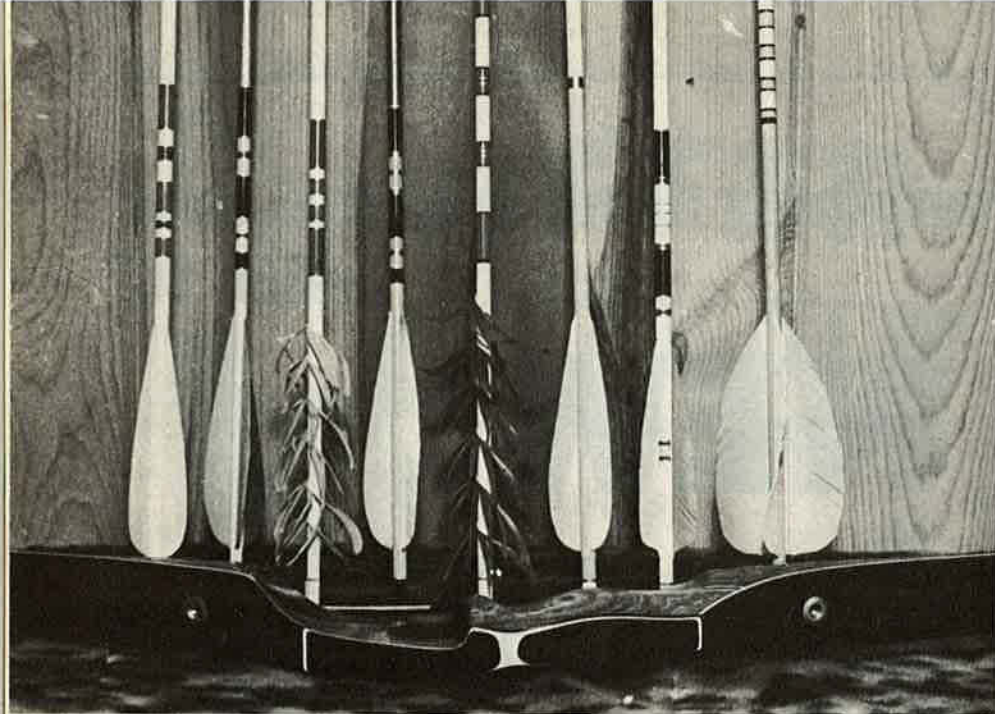
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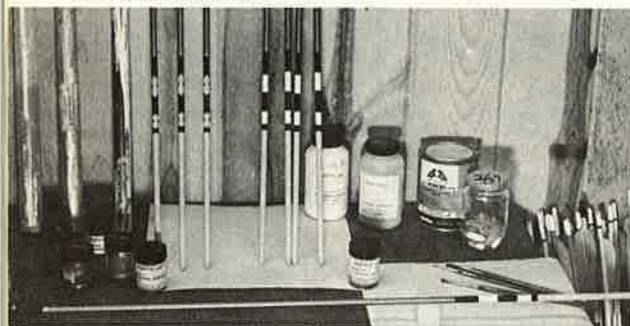
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• Using the simple and economical method explained on these pages, the author decorated a batch of arrows with these unusual and professional looking crests.



MAKE THEM BRIGHT



1 Left: In the author's crestring setup, the mixer on the left spins the shaft and the nylon block holds the shaft during crestring.

2 Center left: The adapter on the mixer which holds the arrow consists of a beater head and surgical tubing.

3 Lower left: The nylon or wood block with the rounded notch for the arrow is all that is needed to hold the shaft while applying the crest.

4 Right: Once the crest is on, final dipping in clear lacquer or Blue Clear Fletch-Lac protects stripping from damage and brings out the bright colors. Use a thin coat.



Here's a way to get professional crests for less than the cost of a bottle of good scotch

by Judd Cooney

HOW WOULD YOU LIKE all your arrows with your own professional, personal crest to show off to fellow bowhunters on your next field outing?

Great, you say, but who can afford a \$40 crestring lathe and all those dip tubes, lacquers and equipment for a few dozen arrows. There's a way around that, and if you don't think so, you couldn't be more wrong if you went after bull elk with blunts.

Most of the equipment and supplies for a professional job of crestring, including lacquers and dip tubes as well as a crestring lathe, are at your fingertips. At most, they shouldn't cost more than a bottle of good Scotch.

The first item is dip tubes of various sizes in which to dip your shafts. The best tubes are obtainable from Wards, Sears or any plumbing supplier in the form of a rigid plastic water pipe. Available in 10-foot lengths, 1 1/4 inches in diameter for \$2, the 10-foot length should give you all the dip tubes you need.

In addition, you will need caps to close the ends of the tubes; these will set you back about 25 cents apiece.

You can get paint from the nearest body shop. Look at their color charts for acrylic lacquers—the whole spectrum, from "candy apple metal flake lavender" to "flat black", is at your disposal. You can have a pint or quart

mixed to your specs for about \$2 a pint. If you want colors for striping your shafts, check the nearly empty lacquer cans. A few colors should set you up with enough lacquer to last quite a while at almost no cost.

For more color, such as some of the bright, easily visible fluorescents, I suggest going to R. A. Bohning's Fletch-Lac Lacquers. These are designed specifically for arrows. The company puts out an informative pamphlet on the use of their lacquers and how to get the best results with them.

Several years ago, I lacquered all my hunting arrows flat black and used plain barred feathers. I felt this really was the ultimate in camouflage (Why paint your face and bow and wear a camo suit and then use bright feathers on your arrows?).

My thinking has since changed; I now use a shaft that has the upper portion lacquered fluorescent fire orange and bright yellow feathers. I found real quick that once I loosed one of those super camouflaged shafts I had no idea where it was going or where it had gone. With a bright feather and fluorescent shaft, I have the feeling of looking the arrow right into the target and, for me at least, this color combination has worked very well. I have used these shafts on mule deer, elk, antelope, bear and whitetail and they don't seem to cause any reaction in the game.

Make the lacquer stick

Okay, now we are set with tubes and lacquer. What's next? There are several tricks that make lacquers "take" just a little better on wood or aluminum shafts. On wood shafts, I usually sand very lightly with a material called "Scotch Brite", put out by the 3M Company and available in most hardware stores. This doesn't

leave whiskers on the wood and cuts some of the film if the shafts have been around a while. Next put some lacquer thinner on a clean, lint free rag or paper towel. Wipe each shaft with the grain, making sure that once this is done you don't touch the bare shaft with your bare fingers. The wood shafts are now ready to dip.

With Easton aluminums, I use a damp paper towel sprinkled with Ajax and lightly wipe each shaft. I then rinse the shafts in hot water, again being careful not to touch any surface to be lacquered. If they are free from oil and dirt, water should flow along the shafts in an unbroken film. The shafts should be hung to dry thoroughly prior to dipping.

Before dipping the shafts or putting on the crest, I warm the shafts and lacquer over a floor heater to about 100 degrees so it flows on as smoothly as possible. I use two very thin coats of lacquer and then a coat of clear lacquer over the crested area to keep the lines from getting scraped in shooting.

Once you have applied the base coat, all that needs to be done is the crestring or striping. Here is where we have to improvise for a good crestring lathe.

If your wife has a cake mixer, you are in business; if she doesn't, try your neighbor. You will need a small bench vice, the mixer, and a block of wood, metal or some material to support the arrow shaft.

Make an adapter to hold the arrow shaft which will also fit the mixer. Take an old beater, cut it off and leave about a two-inch shaft. Slide a piece of surgical tubing over the shaft and you are in business. The tubing holds the tapered end of the shaft or broad-head adapter and spins the shaft. Now put the mixer in the vice in such a

way that you can support the arrow shaft on the block of wood, below the area to be striped.

This block should have a small, rounded notch sanded in it so the arrow shaft will fit smoothly and rotate freely. The best way to do this is to wrap a piece of sandpaper around an old arrow shaft and sand the notch smooth. A small piece of nylon or plastic glued in the notch will allow the arrow to rotate smoothly without marking the shaft. Be sure to keep the arrow shaft level and in line with the mixer for smoothest rotation. About 300 rpms is the best speed.

Brush on the color

Now get a fine, red sabel No. 515 brush for broad bands and a No. 5300 fine hair line brush for the narrow bands. With a little experimentation with lacquer consistency and mixer speed, you should be able to turn out professional looking crests in no time. (One thing I do is to carry out one operation at a time on all shafts. That way I only have to use one color lacquer at a time.)

Once you have the shafts crested the way you want them, let them dry an hour or so. I dip them for the final time in very thin clear lacquer or Bohning's Blue Clear Fletch-Lac. This gives them an abrasion resistant coating and brings out the colors.

All you need now is a nock and a bright colored fletch that matches your crest. Make sure the glue you use is compatible with the type of paint you are using. Fletch-tite works very well with all the Fletch-Lac lacquers and Ever-fast or Easton 24 SRT-X cement will work with just about any lacquer you use.

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Great Days Afield...

How To Stop A Fight



by Robert Kirschner

A COOL, DRY WIND from the north announced a welcome change in the weather. Steady rain had fallen for the past three days, soaking the ground and chilling my body as 24 unsuccessful days in pursuit of deer had chilled my spirits. A lone squirrel on the next hill broke the silence with his scratching in the leaves, but I wasn't hunting squirrels. Only four days remained of the early archery season. I know that deer abound in the hills around Murrysville, Westmoreland County, where I had been hunting, but time, and my chances, were quickly running out.

Shadows were becoming longer as the sun dropped toward the horizon. The steady wind blowing into my face was drying the leaves of the apple tree that I had occupied for the past 24 unsuccessful hunts. The wind pushed my scent over the valley, away from the approach trails I had watched intently all afternoon. This cool wind would finally start the deer moving.

I was mentally reviewing the openings in the forest that would allow clear arrow shots when a scuffling in the leaves grabbed my attention. The sound was at least 75 yards away. It could be a deer approaching hesitantly, walking a few steps, watching for danger, then walking a few steps closer.

A large six-point buck suddenly came into view. I squeezed the bow handle

in readiness; the tendons in my arm became taut. Tension mounted as the deer cautiously approached, step by step, testing the wind, looking for danger. Then it stopped, just out of range.

I thought I would break under the strain — the buck was staring directly at me — when I heard a snort directly behind me.

My heartbeat quickened. I could feel blood pulsing throughout my body. I forced myself to remain still. I slowly turned to see what was behind me. During the ensuing excitement I lost my balance and caught myself from falling out of the apple tree.

Behind me was one heck of a buck! The little(?) six-pointer charged him.

Good thing the rut was on; neither deer paid any attention to my tree. Every leaf was moving; I was shaking the tree in my excitement.

The big buck stepped into ideal battle position — but also, unwittingly, into ideal position for a chest shot. This would be my only shot, and it was right now! I drew as smoothly as I could and let the cedar arrow fly. A good hit!

The little buck broke for cover. The big buck made a few jumps, stopped, then looked over the area. As he slowly walked out of sight over a small ridge I could only watch; I couldn't get a clean second shot.

I was still shaking as I scrambled out of the tree. I slipped the last few feet and my knees gave way as I hit

the ground.

I staggered to the ridge where I had last seen the buck. There were no blood signs. It was getting so dark I had to crawl on hands and knees to follow the trail of scuffed leaves. In about 100 yards I found blood. Then 20 inches of my arrow. Darkness was becoming intense; soon I wouldn't be able to see a thing. I was getting cold. Vapor was rising from my hands and knees. I saw where the deer had stumbled. The blood trail was getting better. The deer was laying just over a ridge, in some thick, weedy growth.

I moved ahead cautiously until I could make out the white belly and big antlers. The deer was motionless, but might not be mine yet.

Shortly the trophy lay at my feet. I field dressed and tagged him. Then the work began.

Man, he was big. I could drag him only a few feet at a time. It was totally dark before I got him to the road.

That night, the Castle Provision Company in Darragh recorded a dressed weight of 215 pounds. This just might be the biggest buck ever killed with a bow in Pennsylvania; the biggest that I knew of, before, was 204½ pounds.

The rack scored 131 6/8, fourth best typical rack taken in Pennsylvania that season. That's my zero hour buck, a trophy worth every minute I've ever spent in the woods with archery gear. It was worth the wait, and practice and patience was the formula.

• Kirschner took his trophy with a 48-pound Black Hawk Short Hornet by Cravotta Bros., 29-inch Port Oxford Cedar arrows, and Black Hawk Rocketeer IV broadhead, and a Kwik-Shot sight by Bucks & Bows Archery.

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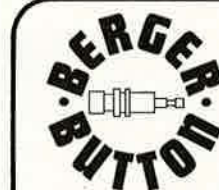
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Williams/Hoburg win largest NAA Indoor National

Barbara Hoburg's 826 sets a new women's indoor record, John Williams wins the battle of the Army, and more than 800 shooters compete at the 1972 event

by Keith Schuyler

CORPORAL Hardy Ward outranks Private First Class John Williams in the army, but what Johnnie did to him on the target line at the third National Archery Association Indoor Tournament in Harrisburg on April 15 smacks of insubordination. For it was these two friendly archery enemies who battled it out for the first two spots in the 900 Round at what has become one of the biggest target events in only three years. Even so, only seven points divided these old friends and current Army buddies as Hardy saw his lead scattered at the 40-yard distance and Williams carded an 848, four points short of his record 852 shot in 1971.

Despite the fact that the contest fell on the first day of the trout season in Pennsylvania, a record 412 registered for the event. And, with 392 signed up for the State Team Shoot, there were 804 places reserved in the spacious Farm Show Building at the state capital in Pennsylvania. Two sections in the NAA 900 were scheduled, with the first beginning at noon. There were 272 at the ready for the first flight. The balance of those registered shot at 6 p.m. as the first section of the 11th Pennsylvania Indoor Team Shoot toed the line in another section of the same building.

Those who shot in the evening had their work cut out for them with an 840 posted by James Mullen, Pennsylvania, in the afternoon. Free-style ladies also had a challenge before them with an 826 set by Pennsylvania's Barbara Hoburg earlier in the day. The Glenshaw girl had beaten back a charge by Doreen Wilber, Jefferson, Iowa, two-time runner-up

for world champion, who had to settle for an 810. Pittsburgh's Ruth Rowe looked good as the evening wore on, but she finally nestled into third place just one point behind Doreen.

A first for the indoor shoot was established with 12 entries in the crossbow division. Charles Sacco, Hammonton, N. J., set a mark to shoot at in future contests with a 741 for the men. Grace Kremer turned in a highly respectable 696 for the ladies.

Only 11 points separated the five top men professionals as Frank Pearson, Palmyra, N.J., held off Chuck Jordon from Rural Valley, Pa. with 840 to 838. Nancy Pfeilmeier, Palmyra, N.J., took a comfortable lead to take the top pro spot for ladies with 780.

Pennsylvanians dominated the three first positions among 26 barebow men as Rod Hoover, Myerstown, had 805, four points over Larry Forester, Oxford. James Conner, Exton, was third with 786. Sandra Carlo, Plattsburgh, N.Y., led the barebow ladies with an authoritative 724 over second place Martha McAdams, at 664. Ann Snider, York, Pa., had a third-place 657.

A big one was carded by Ken Moody, Des Moines, Iowa, junior boy with an 849. Two Pennsylvanians, Tony Reamer, Carlisle, with 817, and Larry Murdock, West Chester, 811, carried away second and third among the 24 entrants. Another Keystone stater, Jodi Crawl, York, led the junior ladies with 777, pushed by Vicki Kimmich, of neighboring Middletown, with 772. Cindy Shope, State College, Pa., had 763 for third.

Cincinnati, Ohio's, Darrel Pace set a fast pace for the 28 intermediate boys with 822, nudged by another Ohioan, same city, Douglas Brothers, with an 820. Hollis Webster, Kens-



• From left, Doreen Wilber, Ruth Rowe and Barbara Hoburg, who finished second, third, first, respectively, in women's free style.



• John Williams has a winner's smile at the last end of men's free style competition.



• The Farm Show building at Harrisburg has good lighting and plenty of space for a long line of archers.

• Robin Craig, with the six arrows which earned her a Six-Gold award. All photos by Keith Schuyler.

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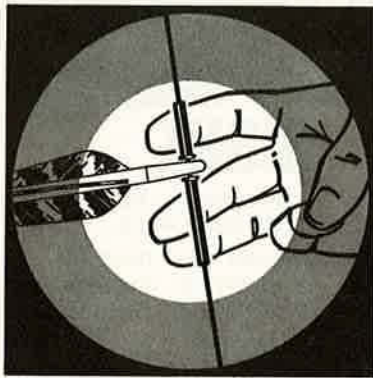
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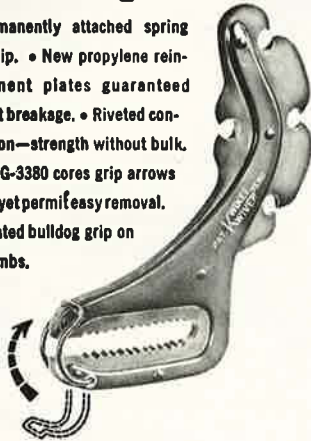
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Ward, Williams, Jeffrey form Army exhibition archery touring team

ington, Md., carded 649 for third. Judy Crowl, York, Pa. had a comfortable lead over Bobbi Cook, as the two divided first and second places, 727 to 619 in intermediate girls shooting. Donna Link, Wheaton, Maryland, took third with 615.

Tommy Stevenson, Norristown, Pa., was well out in front for cadet boys with 849, followed by John Pavlichko, Lansdale, Pa., with 810. Kevin Pace, Cincinnati, was third among the 14 cadets with 779.

Ten-year-old Robin Craig, Aurora, Indiana, stopped the show as tournament director, Clayton Shenk, announced her six gold during the tournament. Robin went on to win with 832, followed by two Pennsylvanians, Janet McCullough, Sharpsville, 764, and Karen Oswald, Pittsburgh, 720.

With only 139 of the registered 182 free-style men finished in the first flight, interest ran high with some of the big bows scheduled for the evening shoot. Despite his worthy 840 in the afternoon, Mullen had a number of reasons to be nervous in the persons of such as Ward, Williams and Pennsylvania's Larry Smith. Larry was off his usual form and had to settle for an 817.

With Ward and Williams, it was the usual show that one has come to expect when these two are on the line together. It was Ward who took the world title from Johnnie's grasp by three points at Valley Forge in 1969. However, the Cranesville, Pennsylvania, shooting machine went on to win his own world title at York, England, in July of 1971 at the age of 17 years.

• A "first" was set at the indoor when 12 shooters competed in the crossbow division, with Charles Sacco and Grace Kremer winning.



Corporal Ward was leading Pfc. Williams when the two of them faced off on the same target at the 40-yard distance in Harrisburg the evening of April 15. Both of them also faced the need for near perfect shooting to match Mullen's 840. Possibly both Ward and Mullen were aware of William's performance in the outdoor American last year when he won the NAA title at Oxford. At the 40-yard distance he had a perfect score. And, when the final arrow tapped its way into the gold, it was Williams again. Hardy had stepped just one point ahead of Mullen in trying to hold his lead.

Also shooting with Ward and Williams was Pfc. Tom Jeffrey, of Grayling, Michigan, and the three of them now form an exhibition team for the special services division of the U.S. Army. They will shortly go on tour to visit United States schools and colleges to hold archery clinics.

In the tremendous task of setting up and dismantling facilities for the shoot, Mechanicsburg and Harrisburg Archers have joined forces. Marty Yontz and Ron Beane supervised the joint effort of the two clubs at the third national. Once again the shooting lights developed by George Helwig proved their worth and the Pennsylvania State Archery Association now owns a complete set for state tournaments.

Maryanne Schumm, archery coach for East Stroudsburg, Pa., State College, was on hand to help with registration and to promote Pennsylvania's part in the Intercollegiate Tournament which is scheduled for San Bernardino, California, in May. Assisting were Nancy Schmidt, Brooklyn, N.Y., and Karen Miller, Jonestown, Penna., who were selling "smile" buttons to raise funds for the college team travel.

Pitching in as usual were Mrs. Clayton Shenk, wife of the tournament director, Mr. and Mrs. Robert Cicula, Philadelphia; Judy Dalton, Pittsburgh; Bill Holtze, Mechanicsburg; Betty

Beane, Harrisburg.

Bud Fowkes, president of Pennsylvania S.A.A. and coach for the 1972 Olympic team, served as field captain for the tournament. Mrs. Fowkes ably assisted with registration.

Al Oswald, Pittsburgh, handled the running lights, also used during the Pennsylvania State Team Tournament, which continued through Sunday.

In the scores which follow, there were many notable events among the general excellence scattered throughout the tournament. Barbara Hoburg's 826 is a new national indoor record.

MEN-FREE STYLE

John Williams	U.S. Army	848
Hardy Ward	U.S. Army	841
James Mullen	Morton, Pa.	840
Chris Labucki	Westfield, Mass.	833
Louis Trongone	Lansdale, Pa.	833
Keith Kemmerer	Ft. Washington, Pa.	832
Jack Lunde	Mt. Horeb, Wis.	829
Skip Phillips	Sinking Springs, Pa.	828
Wayne Faul	Cochran, Pa.	823
George West	Oxon Hill, Md.	823

LADIES-FREE STYLE

Barbara Hoburg	Glenshaw, Pa.	826
Doreen Wilber	Jefferson, Iowa	810
Ruth Rowe	Pittsburgh, Pa.	809
Linda Myers	York, Pa.	804
Carol Strausburg	Orlando, Fla.	801
June Mitchell	Chicago, Ill.	801
Marilyn Minasian	Syracuse, N. Y.	784
Janet Craig	Aurora, Ind.	779
Elizabeth High	Hatfield, Pa.	776
Janet Kemmerer	Ft. Washington, Pa.	776

MEN-PROFESSIONAL

Frank Pearson	Palmyra, N. J.	840
Chuck Jordon	Rural Valley, Pa.	838
Sherwood Schoch	Boyertown, Pa.	834
David Jackson	Perrysville, Md.	829
Richard Kelley	Carlisle, Pa.	829

LADIES-PROFESSIONAL

Nancy Pfeilmeier	Palmyra, N. J.	780
June Allan	Hampstead, Md.	714

MEN-BAREBOW

Rod Hoover	Myerstown, Pa.	805
Larry Forester	Oxford, Pa.	801
James Conner	Exton, Pa.	786
Charles Carlo	Plattsburgh, N. Y.	761
Emil Lehan	Monroeville, Pa.	751
Leon Warmkessel	Reading, Pa.	744
Clifford Saxby	Morrisville, Pa.	744
Bronislaw Soltysik	Laureldale, Pa.	742
Lloyd Banks	West Lawn, Pa.	733
Raymond Stone	Oakton, Va.	713

LADIES-BAREBOW

Sandra Carlo	Plattsburgh, N. Y.	724
Martha McAdams	Lawrenceburg, Ind.	664
Ann Snider	York, Pa.	657
Margaret Bellis	Wind Gap, Pa.	652
LaRue Bruce	Natrona Heights, Pa.	602

BOYS-JUNIOR

Ken Moody	Des Moines, Iowa	849
Tony Reamer	Carlisle, Pa.	817
Larry Murdock	West Chester, Pa.	811

GIRLS-JUNIOR

Jodi Crowl	York, Pa.	777
Vicki Kimmich	Middletown, Pa.	772
Cindy Shope	State College, Pa.	763

BOYS-INTERMEDIATE

Darrel Pace	Cincinnati, Ohio	822	Robin Craig	Aurora, Ind.	832
Douglas Brothers	Cincinnati, Ohio	820	Janet McCullough	Sharpsville, Pa.	764
Hollis Webster	Kensington, Md.	810	Karen Oswald	Pittsburgh, Pa.	720
Jack Wagner	New Brighton, Pa.	806			
Joel Lecker	St. Marys, Pa.	805			

GIRLS-INTERMEDIATE

Judy Crowl	York, Pa.	727	Charles Sacco	Hammonton, N. J.	741
Bobbi Cook	Murrysville, Pa.	619	Dick Neill	Cape May Court House, N. J.	713
Donna Link	Wheaton, Md.	615	Hollis Webster	Kensington, Md.	649

BOYS-CADET

Tommy Stevenson	Norristown, Pa.	849	Grace Kremer	Rydal, Pa.	696
John Pavlichko	Lansdale, Pa.	810	Beth McNulty	Wilmington, Del.	653
Kevin Pace	Cincinnati, Ohio	779	Ann Neill	Cape May Court House, N. J.	578

GIRLS-CADET

Robin Craig	Aurora, Ind.	832
Janet McCullough	Sharpsville, Pa.	764
Karen Oswald	Pittsburgh, Pa.	720

MEN-CROSSBOW

Charles Sacco	Hammonton, N. J.	741
Dick Neill	Cape May Court House, N. J.	713
Hollis Webster	Kensington, Md.	649

LADIES-CROSSBOW

Grace Kremer	Rydal, Pa.	696
Beth McNulty	Wilmington, Del.	653
Ann Neill	Cape May Court House, N. J.	578

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**PART II:
BETTER WAYS TO
HIGHER SCORES**

You have examined and evaluated the four stances of shooting, as presented in the previous issue of ARCHERY WORLD. This poster continues your evolution as a thinking shooter developing the best possible personal form. Continue to experiment with different styles to find the one that suits your body type, builds confidence and creates consistent performance.

**NOCKING
THE ARROW**

- make as simple as possible, with minimum movement
- use exact sequence each time
- have bow in line with target to avoid disturbing other shooters
- place nock on string between nocking points in snug (not tight) position
- mark arrow (crest or pencil mark) to check brace height
- finger-type arrow rest holds arrow during nocking and drawing; gives security, builds confidence

**STRING
HAND**

- place fingers identically on string each time
- finger placement is by feel and sight
- feel string pressure against fingers when setting the "hook," maintain **relaxed wrist**
- place slightly more pressure on middle finger than index and third fingers
- deep hook enhances security during and at full draw, builds confidence and control
- keep minimal finger pressure on nock during draw; do not pinch nock
- keep back of wrist straight with forearm when tension is put on string hand; draw with **relaxed wrist** and forearm
- finger spacers prevent sore fingers. Tab (for target archers) gives more efficient release, better finger control with lighter bows. Finger glove is faster and protects fingers better with heavier bows

**BOW HAND
HIGH WRIST**

- consistent location, hand easily finds natural position on throat of bow handle
- small area of pressure on bow handle minimizes torque
- bow performance good because of small pressure point area
- less tendency to grip bow handle tightly or grab bow on release
- used successfully by side anchor barebow shooters

**DISADVANTAGES**

- difficult to maintain proper, constant tension in wrist
- many people have a weak wrist and cannot assume high wrist position, especially with heavy bows
- few bow handles designed for high wrist position
- tense high wrist tends to move prior to or during release
- high wrist pulls bow arm closer to string path, string slaps arm guard

**BOW HAND
LOW WRIST****ADVANTAGES**

- relaxed position of bow hand lessens wrist fatigue
- position does not change during long periods of shooting because wrist is in "tired" position
- hand position comfortable, easy to duplicate
- hands are sympathetic, relaxed
- bow hand helps relax string hand
- with relaxed hand, minimizes twisting action (torque) on release
- bow sling or finger sling keeps hand in relaxed position

DISADVANTAGES

- under tournament conditions tension may build in wrist and change pressure point
- shooter may develop a grab for bow upon release if hand not relaxed

ARCHERY WORLD RECOMMENDATION

Although both of the described techniques are used extensively, we recommend the low wrist as being better. Its simplicity of duplication and the natural position with wrist on bow handle lessens fatigue and is a more consistent, stable position.



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Stacking was checked on an automatic weight machine. Draw weights were the same through the 18"-30" range. Identical performance again.

Then we compared guarantees. Indian's is for a lifetime. Bear's isn't. Maybe you don't expect a bow to be defective. Still, that lifetime guarantee is nice to have.

All in all, the comparison didn't surprise us. We knew our bow was a beautiful weapon. We suspected theirs was as good. So your choice is really a tossup. If money doesn't mean anything to you.

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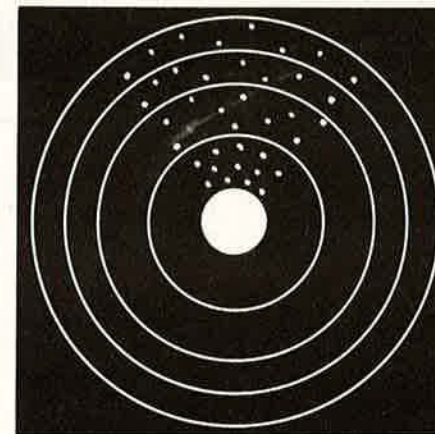
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Shooting tips #3

How to solve high grouping

(Assuming archer's normal strike pattern is near center)



MECHANICAL

equipment failure —

Nocking point moved down, sight moved down, peep sight moved up, brace height changed. (Brace height moving down will generally cause a lower nocking point.)

outdoor — tailwind

PSYCHOLOGICAL

freezing above center — Definition: Inability to lower sight or aiming point to center of bullseye without involuntary release. This is caused by a conditioned reflex. As sight or aiming point nears the bullseye, archer releases without control.

Practice holding on center of target and releasing when ready. Use large target at close range. Directly after full draw, place sight or aim in middle of target immediately. Concentrate on holding in the center and releasing by using back and shoulder tension to trigger release. Try a clicker with proper arrow length.

FORM

overdrawing — Definition: Longer draw than normal, leaning back away from target.

Use visual or mechanical draw check. Distribute weight on both feet equally.

lowering anchor point — Definition: Opening mouth, lifting nose off string, floating anchor.

Keep back teeth together, keep solid contact on chin and nose, establish solid exact bone contact for anchor reference points, chin shooters try kisser button.

raising bow arm — Definition: Bow arm pops up during or directly prior to release.

Use a bow sling with a loose, relaxed bow hold. Practice follow through maintaining bow hand height as in hold position.

release jerked down — Definition: Release hand jerked down, often coordinated with peeking.

Relax the wrist and forearm during the draw and hold. Feel the hand slide back across the face or neck in the follow through.

change in string finger pressure — Definition: Third finger slipping off string, sometimes caused by raising elbow. Loss of tension in middle finger. Excess pressure above nock causes arrow to bend at full draw. During release arrow jumps off rest.

In predraw position engage (hook) fingers equally, deep in the first crease. Check for higher than normal elbow. Middle finger should carry 50% of the pull weight prior to release. Relax forearm, wrist and back of hand during draw and hold. Try a tab with finger spacer.

heeling — Definition: Bow hand wrist moves down, caused by relaxing or fatigue, this moves the pressure point lower on the handle loading the lower limb.

Be sure to place the bow hand and feel the pressure point on the handle in the exact same position with each shot.

feather hits index finger — Definition: Index finger of bow hand extends in front of rest, arrows are kicked up as feathers hit finger.

In the predraw position touch the index finger and the thumb or keep the index finger below the bow shelf.



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the pros

THREE NEW DIRECTORS

Phil Grable, Bob Rhode and Vic Leach are the three new PAA board of directors members. They will serve three year terms.

Grable, Lansing, Michigan, won Eastern Section voting. Noted as an equipment designer, he has been active professionally since 1966 and has been an active shooter for more than 20 years.

Rhode, Medford, Minnesota, is a charter member of PAA and was its first president. He has been in archery more than two decades and will bring a wealth of archery knowledge to the board as a Central Section director.

Leach, Sacramento, California, has been a PAA member for more than five years and is currently the ninth ranked men's pro. He is a full-time professional working in sales, service and coaching, and will be a Western Section director.



Phil Grable



Bob Rhode



Vic Leach

BERGER/BUTZ LEAD PRO ARCHERY RANKINGS

Victor Berger of Springfield, Ohio and Ann Butz of Suffern, New York remain in the number one spot of the national rankings of the Professional Archers Association for the third straight year. In addition to the top spot, Berger's lifetime winnings are now tops in pro archery ranks with Butz still trailing the total earnings of Springfield, Ohio's Margaret Tillberry.

Berger, who has been labeled "The White Knight of Pro Archery," has maintained unequalled consistency over the past four years. He is two-time holder of the Pro National Championship in addition to many lesser titles and shooting records.

Ann Butz records are no less imposing. This 35-year-old housewife from Suffern, New York has held and broken and broken again most of the existing records. She is a two-time Pro National Champion, currently reigning in that title. During the past five years she has become the greatest lady archer ever to pick up a bow.

MEN: 1-Victor Berger, Springfield, O.; 2-Ed Rohde, Muscatine, Iowa; 3-John Kleman, Latrobe, Pa.; 4-Hugh Shaw, Wellman, Iowa; 5-Chuck Jordan, Rural Valley, Pa.; 6-Jim Riley, Bellbrook, O.; 7-Rick Gilley, Temple, Texas; 8-Dave Miller, Redkey, Ind.; 9-Vic Leach, Sacramento, Cal.; 10-Tom Daley, Belmont, Cal.; 11-Chuck Holland, Phoenix, Ariz.; 12-George Clauss, Saginaw, Mich.; 13-Steve Robinson, Richwood, O.; 14-Bill Harris, Indianapolis, Ind.; 15-Don



Ann Butz



Vic Berger

Perry, West Alexandria, O.; 16-Bob Bitner, Grayling, Mich.; 17-Al Werner, Mayfield Heights, O.; 18-Benny Tirado, Brooklyn, N. Y.; 19-Art Robinson, Garden Grove, Cal.; 20-Fred Troncoso, Monterey Park, Cal.

WOMEN: 1-Ann Butz, Suffern, N. Y.; 2-Lucille Stametz, Bethlehem, Pa.; 3-Jody Hansen, Indianapolis, Ind.; 4-Dot Kidney, Waverly, O.; 5-Betty O'Brien, Dover, O.; 6-Margaret Tillberry, Springfield, O.; 7-Helen Fenstermaker, Northampton, Pa.; 8-Lou Shine, Las Vegas, Nev.; 9-Linda Marten, Des Moines, Iowa; 10-Denise Libby, Rancho Cordova, Cal.

ROHDE/MARTEN WIN SOUTH DAKOTA EVENT

Ed Rohde, Muscatine, Iowa, second-ranked men's pro archer in the country, and Linda Marten, Des Moines, Iowa, ninth-ranked women's pro, topped a field of 80 archers at the second annual \$1,000 South Dakota Pro-Am. Rohde shot a 299-299/598 and Marten a 286-293/579.

Behind Rohde were Hugh Shaw, fourth-ranked pro from Wellman, Iowa, with a 594, and Ed Helgason, Waseca, Minnesota and Keith Wellman, Lincoln, Nebraska, tied with 591. LaVonne Hagemeyer, Edina, Minnesota, with 569, and Darlene Wells, Lincoln, Nebraska, with 559, finished second and third in the women's division.

The tourney was held in the new Downtown Holiday Inn and co-sponsored by them and Adler's Archery.

PAA SCHOOL DATES SET

The 1972 session of the PAA Business and Instructional School will be held July 31 - August 5 in Phillipsburg, N.J. School site will be the Howard Johnson Motor Lodge at the Still Valley Circle in Phillipsburg.

Recognized as a foremost training session for people working in the archery field, the school is open to the public and lists on its teaching staff a group of the top men in the field. A partial listing includes Owen Jeffery, Bear Archery, on bow mechanics; Jim Ploen, Wing Archery, on mass-market merchandising; Al Henderson, Phoenix, Arizona, and Len Cardinale, Belleville, N.J., teaching basic and advance instruction techniques. Both Henderson and Cardinale are members of *Archery World's* coaching and technical staff.

For full information about the school, write to the PAA Business Office, 1500 N. Chatsworth St., St. Paul, Minn. 55117.

O'KANE, HANSEN WIN NEW ENGLAND OPEN

Norm O'Kane, Manchester, Conn., won a four-way shootout to take the men's crown at the 1972 New England Open, and Jody Hansen, Indianapolis, shoot-

ing a 297 that matched top men's scores, took the women's crown.

There was a fine turnout of 165 archers. Hall's Arrow in Manchester sponsored the \$2,500 event.

O'Kane, Al Lizzio of New York, Don Jackson of Marlboro, Mass., and Frank Pearson of Palmyra, N. J. all carded 297s. The sudden death shoot-off ended after only three arrows, with O'Kane on top, Pearson and Jackson sharing second place, and Lizzio in third.

Jody Hansen was followed by Lucille Stametz of Bethlehem, Pa., with 292 and Bette Wirtz of Glastonbury, Conn., with 291.

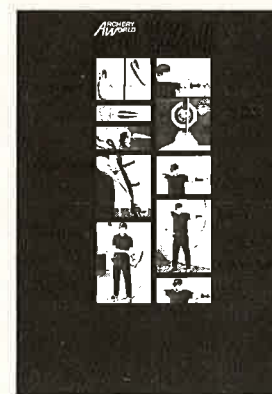
MAID-OF-THE-MIST TOURNEY SET

The seventh annual Maid-of-the-Mist pro open is set for May 27-28 at Niagara Falls, N. Y. The \$3,000 purse will pay 16 places in men's championship (\$300 top down to \$25 for 16th), four places in women's championship (\$175 top down to \$45), and five places in each of three flight divisions. Flight 1 will pay \$125 to \$30, Flight 2 \$100 to \$25, and Flight 3 \$75 to \$20.

Entry fees are \$25 for open competitors and \$10 for amateurs. PAA sanction has been applied for.

Mail your registration checks to Dave Young, Tournament Chairman, 7020 Laur Rd., Niagara Falls, N. Y. 14304.

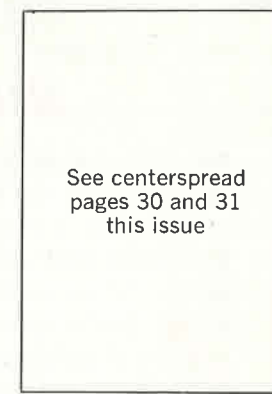
ARCHERY WORLD POSTERS TO IMPROVE YOUR SHOOTING



Basics



Intermediate I



Intermediate II

See centerspread pages 30 and 31 this issue

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BEAR AMERICAN (from page 17)

Adler, Glenn	581	105
Dixon, Darrell	577	95

FLIGHT NO. 4

Gallihugh, Joan	575	\$90
Wroblewski, Gary R.	573	86
Iwen, Richard	571	84
Youngs, Rick	570	41
Fulkerson, Dennis R.	570	41

FLIGHT NO. 5

Berrier, Arthur	575	\$80
Castle, Albert	570	76
Larson, Dick	569	74
Kalacinski, Donald	567	72

FLIGHT NO. 6

Thomie, Jack	565	\$70
Arter, Gary	561	66
Olson, John	560	31.50
Marciniak, Richard J.	560	31.50
Brooks, Ted	560	31.50
Travis, Louis	560	31.50

FLIGHT NO. 7

Sargeant, Clayton	556	\$60
Rushin, Mike	555	56
Dioguardi, Fabio	553	17.67
Hemmelgarn, Harold	553	17.67
Hall, Art	553	17.67
Austin, Dave	553	17.67
Shine, Lucille	553	17.67
Watson, Iris	553	17.67

FLIGHT NO. 8

Negrete, Como	560	\$50
Rohe, Clarence	552	48
Piaskowski, Ed	551	46
Smith, Sue	549	44

FLIGHT NO. 9

Shoup, Emmett, Jr.	548	\$40
Shryock, Len	544	37
Prescott, Jim	544	37
McConnell, Robert, Jr.	542	17
Evans, Benton	542	17

FLIGHT NO. 10

Staver, Donald H.	529	\$32
Burney, Clifford	525	30
Brewer, Tim	524	28
Brockhoff, Sue	521	26

JOAD RESULTS

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Dave Wroblewski, Detroit, Mich.	540
Raymond Waleszczak, Jr., W. Seneca, N.Y.	540
Bill Rankin, Waukesha, Wis.	540

INTERMEDIATE GIRL

Jody Brown, Cincinnati, Ohio	540
Linda Kazienko, Hamilton, Ont.	532
Deborah Ann Hammer, Lodi, Cal.	528

JUNIOR BOY

Don Dabelow, Galveston, Ind.	538
Kirk Welsh, Garden Gate, Cal.	530
Kenneth Kling, Lancaster, N. Y.	530

JUNIOR GIRL

Debbie Hansen, Indianapolis, Ind.	528
Susan Skiera, Milwaukee, Wis.	518
Jodi Crawl, York, Pa.	506

CADET BOY

Tim Gordanier, Flint, Mich.	524
Bruce Hansen, Indianapolis, Ind.	518
Chris Powers, Cincinnati, Ohio	514

CADET GIRL

Robin Craig, Aurora, Ind.	514
Lisa Held, Menomonee Falls, Wis.	508
Jackie Coon, Fithian, Ill.	438

GIRLS TEAM

Whiffen No. 1, Milwaukee, Wis. (Sue Skiera, Lisa Held, Margie Merritt, Diane Merritt)	2002
--	------

BOYS TEAM

Cincinnati Jr. Olympians (Jody Brown, Doug Brothers, Darrel Pace, Chris Powers)	2128
--	------



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Aug. 21 — Arrive Paris, take a guided tour of the city's historic spots. Glamorous night club tour is optional.

Aug. 22 — Sightseeing and shopping in Paris on your own.

Aug. 23 — Travel across the beautiful French countryside to Switzerland.

Aug. 24 — Sightseeing in Switzerland's spectacular Alps, near Lucerne.

Aug. 25 — Depart for Munich via Zurich and Lake Constance. Travel across the Bavarian countryside.

Aug. 26 — Day of rest and sightseeing in Munich area. (If tickets to opening ceremony become available, you will have an opportunity to purchase them.)

Tickets to the following events are included in your Olympic package.

Note: You may be able to trade tickets for alternate events

Aug. 28 — Wrestling	Sept. 4 — Judo
Aug. 29 — Basketball	Sept. 5 — Basketball
Aug. 30 — Modern Pentathlon	Sept. 6 — Archery
Aug. 31 — Track & Field	Sept. 7 — Archery
Sept. 1 — Track & Field	Sept. 8 — Archery
Sept. 2 — Basketball	Sept. 9 — Archery
Sept. 3 — Track & Field	Sept. 10 — Equestrian
Sept. 11 — Jet charter from Munich returns to Detroit in early afternoon.	

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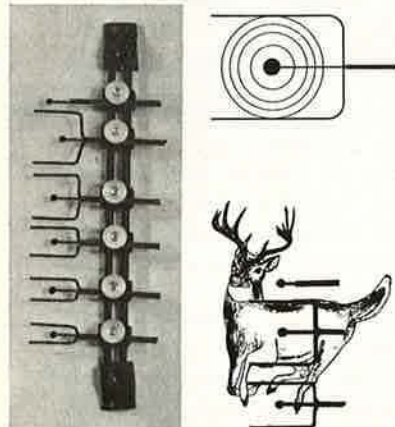
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names...notes...news...names...notes...news news...names...notes...news...names...notes

VIVE L'ARBALETE

LONG LIVE THE crossbow! We took a crossbow vacation in northern Europe the past summer and talked with two of the most eminent crossbow experts in Europe — Ms. Jean Copin, Historian Extraordinaire and vice president of "Le Grand Serment Royal," the St. George Crossbowmen of Brussels, and Herr Frede-Filip Nielsen, president of the Danske Crossbow Union, also historian and museum consultant on the weapon.

European crossbows are more ornate and heavier than the typical American crossbow. For instance, the International Shoot in Holland is shot with high precision bows not unlike our heavy match rifles. The bows weigh considerably more than 20 pounds, have micrometer sights, require a goats-foot cocking lever, etc. Heavy steel plates form the groove and also guide a "follower" on the string. Like all European crossbow shooting, it is done with one bolt. No six bolts, like us. Some butt plates are adjustable rearward and vertically. Some have rear sights with extensions that blind out the non-shooting eye so you don't squint.

Do they take this shoot seriously? Herr Nielsen starts training a couple of months before the event. He runs five kilometers before breakfast and follows a rigorous training diet. Shooting practice includes breath control, the actual shot being made on exhaling a not too exaggerated breath. Set triggers are used, and a finger stop, then just the least pressure by the trigger finger fires the bolt.

After we carried a crossbow across the border, Frede informed us we could have been jailed for that. One we forwarded through the mail is now hanging on the St. Georges Club wall, and I'm prouder of that than one I'm making for the Smithsonian Institution.

Without visiting the many crossbow clubs, it would be difficult imagining the heritage of the European crossbow. The St. Georges Guild goes back to about 900 AD.

Museums reek with crossbow antiquity. Through Herr Nielsen's help, we visited the King's personal collection, and in many places were allowed to examine old crossbows.

We saw the 1971 "Tir de Roi." Shooting here is at about 30 meters, and is strictly done off-hand. You can examine some of their shooting paraphernalia, but not the one precious bolt. Their bolts were 10-11 inches long, turned from a hardwood, slightly enlarged to 3/4-inch just behind the

long, heavy steel pile, and tapering to the rear where it enlarged to a 1/2-inch butt, with two-point suspension in the groove. Some had three fletches, some four, but all above the groove.

The target was a three-inch circle, with a blank cartridge about the size of a ten-penny nail head centered exactly in the middle. One man hit it squarely, the blank went off with a bang, and he was proclaimed "king" and vested with a wide, heavily silver encrusted yoke.

And after this, our luck held, for we were invited to the St. Georges clubhouse for a popinjay contest.

The mammoth pole with its crossbars for the little "birds" rises 37.6 meters. It is hinged and let down to attach the popinjays on small spikes. These are about the size of a small, old fashioned wedding ring with a nubbin shape for a head and another for a tail. A supplementary tail is a vertical wire with a tuft of bright feathers, but to dislodge it you must hit the front edge of the head.

The popinjay is, indeed, a small target when you're shooting something like 100 feet straight up. Heavy wire screening is provided for the shooters to step back under. A boy, protected by a wire cage, is stationed in mid-field to help locate the bolts. As in the "Tir de Roi," one pet bolt is used. The bows had short, curved stocks, shot from the shoulder, very powerful and very heavy.

The Europeans know how to do it right. The hospitality, and the food were better than what you'd expect. Vive l'arbalette! — *George Stevens*

PENNSYLVANIA GAME DIRECTOR HONORED: The Pennsylvania State Archery Association recently honored Glen Bowers, Executive Director of the Pennsylvania Game Commission, with a sterling silver cup inscribed, "To Glen L. Bowers for outstanding contribution to bow-hunting, conservation and recreation." Photo, from left to right: C. R. "Bud" Fowkes, president of PSAA; Bowers; and Clayton B. Shenk, executive secretary of PSAA.



BOW HUNTING SURVEY REPORT

A mid-1971 questionnaire to all state wildlife departments by the Wildlife Management Institute may be the first of its kind.

Summarized responses from 40 states showed these figures: Total number of bow hunting licenses, tags and stamps issued for 28 of 40 states is estimated at 559,786; total revenue collected on bow hunting licenses, tags and stamps for 28 of 40 states is estimated at \$2,471,475; total number of bowhunters for 36 of 40 states is estimated at 828,124; total man-days of bow hunting for 30 of 40 states is estimated at 4,295,313; all states except one (Nevada) show an increase in bow hunting participation in recent years; all but one (Alaska) of the 40 states responding have special seasons for bow hunting; 24 of 29 states report that crippling losses from bow hunting are less than, or no more than, that which occurs from gun hunting; 31 of 35 states indicated that bow hunting accidents occur less frequently than gun hunting accidents; 22 of 40 states said there was a need for a program of training in the use of bows for hunting; 25 of 40 states stated that there was a need for public archery ranges in their states; it is estimated that there are 1,250,000 bow hunters in the 50 states who hunted an estimated 8,800,000 man-days.

The only states which did not respond were Texas, Minnesota, Illinois, Ohio, Tennessee, Georgia, Delaware, New Jersey, Massachusetts and Vermont.

Leading the license parade were Pennsylvania with 153,936 and Wisconsin with 101,573, both 1970 totals. Top revenue states were Wisconsin with \$534,522 and Michigan with \$357,547.

NEW LINE OF VENEERS AND RISER WOODS

Wood Dynamics Corp., South Pomfret, Vermont, has introduced a comprehensive line of advanced wood products engineered specifically for archery equipment. The line includes reflex veneers of domestic hard maple or Brazilian maple, in thicknesses from 1/8" to 1/85"; superflex actionwood veneers available laminated with all parallel grain or alternating grain direction; pliant wood bowtrim veneers of over 50 species; riserwood in a wide range of exotics, many never before used; laminated riserwoods; densified strataply riserwood, produced by bonding saturated wood veneers under extremely high temperatures and pressures. For full info and prices, write to Wood Dynamics Corp., South Pomfret, Vermont 05067.

OPEN SEASON ON CATALOGS

This is the dreaming season, when all bows shoot powerfully and no nocks fall off. Catalogs you might want to write for include the new free Burnham Brothers 66-page book, available from them at Department K6, Marble Falls, Texas 78654; the new free Herters catalog of their complete sporting goods line from Department C33, Waseca, Minnesota 56093; the Shakespeare free 1972 archery catalog from Advertising Department, Shakespeare Sporting Goods Division, Kalamazoo, Mich. 49001. These catalogs have been announced as available by the manufacturers; check other manufacturers and retailers ads elsewhere in this issue for other catalog availabilities.

NO MORE SWEARING NEEDED

It used to be called the Profane tree stand, because when one hunter saw another using it to climb a tree, the responses it produced were usually of that nature. Weird, man. Now it appears that the nation's bowhunters are either sophisticated enough to not respond in such a manner, or they have come to expect the unexpected. So it's simply called the Baker Tree Stand. Made of aircraft aluminum and weighing less than 10 pounds, it's a unique rig. Baker Manufacturing, Box 1003, Valdosta, Georgia 31601 has all the details.

Oh for the good old days, when a spade was called a spade, and tree stands were something else.

FOR THE CALENDAR

CHICAGO HOSTS NORTHEAST CHAMPIONSHIPS

Chicago Bow Hunters, Inc. will host the Northeast League Championship combined with their annual Fun Fair on Aug. 13 at their range near Bolingbrook, Ill. Trophies to all winners. For information, contact Al Preslicka, 4227 Grove Ave., Brookfield, Ill. 60513.

FIELD INVITATIONAL

Northern Illini Bowmen of McHenry, Ill., will hold a 28 field invitational on Apr. 30. For further information, contact Irene Trumble, 827 Laurel Ave., Woodstock, Ill. 60098, or call 815-338-3213.

HIGH-COUNTRY BOWHUNTS

Special limited hunting by permit in Colorado.
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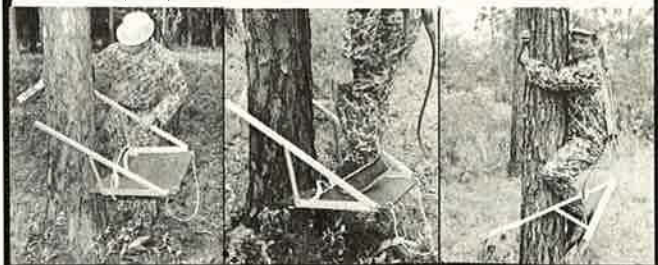
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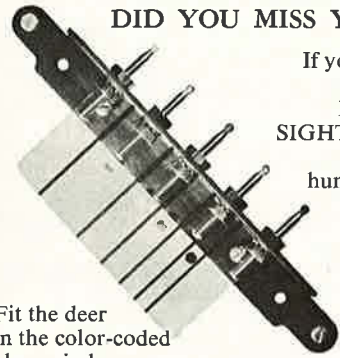
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DEALER INQUIRIES WELCOME

PENNSY BOWFISHING TOURNEY

The sixth annual Pymatuning/Geneva Area Bowfishing Tournament will be held June 3-4. There will be \$500 in prizes. Co-sponsors of the event are Phil's Archery, Chartiers Ave., McKee's Rock, Pa. 15136; Norm's Sport Shop, U. S. Route 422, R.D. 1, Prospect, Pa. 16052, and West Hills Sport Shop, West Hills Shopping Center, 925 Broadhead Rd., Coaopolis, Pa. 15108. Write to any of them for full info.

SENIOR SPORTS INTERNATIONAL SET

The archery segment of the third annual Senior Sports International will be held June 17-18 at the Sepulveda, California, Sports Center. Pre-registration closes June 12; fee is \$5. You must be 35 or older to enter. A PAA Outdoor Round will be shot. There are no restrictions on tackle. For full info, contact Hugh Rich, Tournament Chairman, 319 S. Central Ave., Glendale, Cal. 91204 or Lynn Gardner, Tournament Secretary, 6977 Nita Ave., Canoga Park, Cal. 91303.

MINNESOTA ARCHERS AID BLACK BEAR

Last year the Minnesota State Archery Association donated \$1,500 to the Minnesota Department of Natural Resources to help finance a research study on the black bear in their state. Funds were raised through the sale of tickets for a "conservation" shoot.

The MSAA will hold another shoot this year, with the proceeds earmarked for the Department's deer habitat improvement projects.

During the past legislative session, the MSAA and the DNR waged a successful campaign to get the bear classed as a game animal so that regulations could be established for its protection and management.

Well done, Minnesota archers!

NFAA BOWHUNTERS GATHER IN GEORGIA

The NFAA's first annual Bowhunters' Rendezvous will be held Sept. 2-4 at Mobley's Bowhunting Preserve near Uvalda, Georgia. Highlight of the event will be a one-day shoot of the new NFAA bowhunters round for the title of National Bowhunter Champion. There will also be two days of wild hog hunting on Mobley's Preserve.

For full info, write to Dan Quillian, 656 W. Cloverhurst, Athens, Georgia 30601.

AAHPER POSTAL TOURNEY RESULTS

Top team and individual scores by category for the latest AAHPER postal tourney are: Male beyond high school — Atlantic Community College, Mays Landing, N. J., 1064; Charles Eby, Ohio State Archery Club, Powell, Ohio, 272; female beyond high school — Atlantic Community College, 723; Sarah Calderwood, Humboldt State College, Arcata, California, 263; coed beyond high school — Humboldt State College, 1046; male grades 10-12 — Forest Hills High School, Grand Rapids, Mich., 1060, Ron Block, Forest Hills, 276; female grades 10-12 — Maroa-Forsyth High School, Maroa, Ill., 810, Lori Mathews, Forest Hills HS, 248; coed grades 10-12 — Parkersburg, West Virginia HS, 883; male grades 7-9 — Cormack Junior Olympic Archery Club, Topeka, Kansas, 1054, Tom Rogers, Cormack, 273; male grades 6 and under — Cormack Junior Olympic, 823, Dennis Rogers, Cormack, 234.

The round consisted of 60 arrows shot from 20 yards at a 20-inch face. There were 29 team entries and 116 shooters from ten states.

Rules and entry forms for future AAHPER shoots can be obtained by writing Julian W. Smith, Director, Outdoor Education Project, 403 Erickson Hall, Michigan State University, East Lansing, Mich. 48823.

PERFECT FLIGHT, BUT TO THE RIGHT

WHAT DO YOU do when your arrows fly true, but you've got your sight pushed all the way in and you're still hitting to the right (right-handed shooter)?

If you're using a cushion plunger, you have two adjustments to bring the arrows left. However, this will foul up your flight since you already had found the correct adjustment setting. So don't mess with the plunger. Instead, here are three other solutions:

- Line up your string more to the right. If you have been lining it up with the center of the bow, line it up along the right edge of the bow window, or even with the knob on your cushion plunger. Don't feel that you always have to aim with the string centered on the bow. You only have to cant your head very slightly to move the string wherever you want it. It goes without saying that you must line it up to the same place with every shot. Care must be taken in aligning the string that you only move the head; don't try to do it with the bow hand. Also, do not change your anchor. Simply pivot around that point. Actually, you are only moving the aiming eye so your perspective will be from a slightly different angle. Of course, if you are using a string peep you cannot

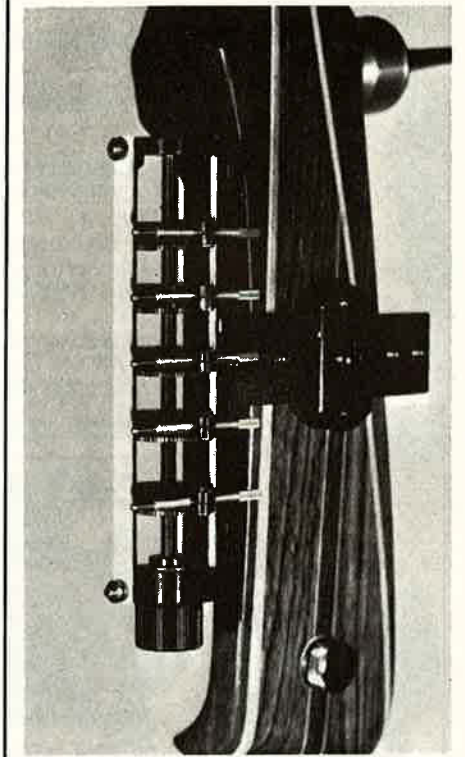
do this. Then you must

- Go to a stiffer arrow. An arrow that is too weak will snake around the bow and shoot to the right with a finger release. A stiffer one goes left.

- A lighter point will bring you left, but only slightly — with either type of release. (For release aid tuning see my article in "Plastifacts.") Easton's heavy points seem to be gaining in popularity among the top archers. I know they will group better in the wind. When you change arrows or points you will naturally have to tune your bow again. Sometimes the sight mount itself can be moved over to the right, depending upon the kind of mount. Changing to a smaller hood will also let the sight move closer to the bow. If your bow is cut past center shot, you should have no trouble in this respect.

We recently had a problem of the arrow coming out of the bow pointed right. No amount of adjustments would completely eliminate it. So we lowered the nocking point on the string 1/8-inch and the arrows flew beautifully. One would assume that the nocking point would have no effect on the horizontal deviation of the arrow. Not so. Sometimes you might have to set it slightly lower, than you would normally, if the arrow persists in pointing right.

— Max Hamilton



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DON ROWE TO PRO LINE COMPANY

Don Rowe is the new general manager of the Pro Line Company, according to W. G. Pierce, president, Hastings, Mich. Don will head the company's development of new products and sales programs with aims at better customer service and a more complete line of archery products.

Don is a PAA member, has served on the board of the Michigan Archery Association, and was five times Michigan amateur champion before turning pro.



COLLINS TO SHAKESPEARE

Bryan Collins, formerly of Starlight Archery Lanes, Detroit, has been named archery products supervisor of Shakespeare's Archery Division, as announced by Doug Morgan, Shakespeare Archery manager. Collins is a graduate of the PAA business and instructional school and has supervised and acted as judge in various archery tourneys. He had managed Starlight North and coordinated the operations of the three Starlight ranges.

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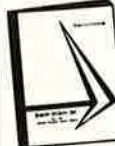
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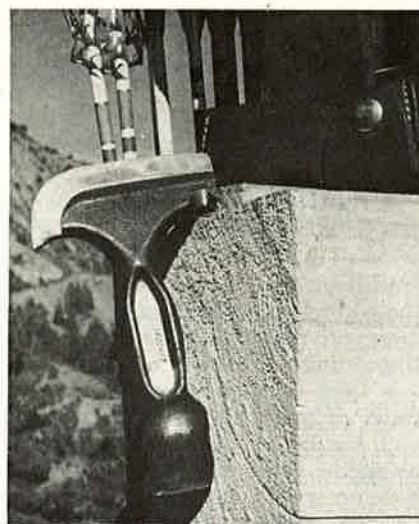
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Screw a small limb or piece of wood, about an inch in
diameter and shaved to a slight taper, into the coarsely
threaded hole in the handle portion of the Skachet. You
now have a very serviceable hatchet for chopping through
a pelvis or rib cage or cutting firewood. I seldom use a
wood handle; the center portion of the Skachet fits my
hand well enough to make cutting and chopping no chore
at all. I would recommend gloves if you use it this way.

I cut through neck bones and pelvic bones on two elk,
a deer and two antelope and the blade hasn't a nick. It
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this hard use has maintained a good edge. With just a
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The butt of the Skachet has a flat hammer head for
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While the tool, complete with a top grade leather belt
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— Judd Cooney



"I make it five deer, two foxes, three jackrabbits
and one no-hunting sign."

Hunting in the Rain

(continued from page 62)

drawback of rubber boots is that they retain moisture
and your feet get logy and sore.

A key item of wet weather comfort is the rain suit,
and by that we mean the type that has pants and parka
top. The light nylonized rubber types that fit well would
rank at the top of the list, as they make the least amount
of noise for stalking purposes and are generally well enough
constructed and vented that they won't conserve moisture
in your clothing.

However, there's no totally quiet rubber suit. Many
hunters overcome this by wearing rubber or plastic rain
suits under some light cotton overgarments like camo
clothing, although camo clothing can weigh a ton when
drenched. A real light plastic or nylonized rubberized
undergarment is best, because of weight and that they will
be more flexible and less noisy than heavier material.

Best hat is the standard sportsman's cap. Pulled down
at back and sides, it offers enough protection for eyes
and sheds water equally over your shoulders and not
down your glasses or your back like some of the wide
brimmed jobs do. An additional comfort in head cover
is a light waterproof hood that can be pulled over the
head to just behind the ears to keep your hearing at peak
efficiency. A short hooded jacket top works fine, not the
overly long parka type which is hard to walk in.

For stalking, we prefer the shorter type rubberized
suits because you can zip down the front for better body
ventilation. Otherwise, you can get as wet from the in-
side as from the outside.

If you're hunting from a blind, however, the ventila-
tion factor is not as important as being dry and warm.

The best adapted armguard fitting over all this damp
and semi-damp paraphernalia is the long training or hunt-
ing armguard that covers the sleeve from just above the
elbow to the wrist. A tip on the armguard: do not make
it so tight it cuts off circulation in your bow arm. This
causes rapid fatigue. It should flex with the elbow.

Proper practice procedures

Okay, now you're properly clad and equipped for rainy
weather. Next thing is to practice in the rain. Pick the
worst day to go to the archery range—you won't have
any competition for a target—and field test your equip-
ment several times to familiarize yourself with it under
actual rain conditions.

Remember that under rainy conditions you will prob-
ably have closer shooting than normal because of the
advantages the rain gives; practice in the rain should
emphasize closer distances. The need for accuracy in
actual rainy conditions is very important. Remember,
you're not going to have a clearcut blood trail, so get
up close to the target and check out the effects of your
new, totally soaked equipment.

What you're looking for in practice is the knowledge
of sighting adjustments at various ranges. It is important
to let the feathers get as wet as they will under natural
hunting conditions before you fire that first practice shot.
It is also important, if you hunt with wet tab or glove,
to let that leather get as saturated as it does under hunt-
ing conditions, and see what effect it has on arrow flight.
Also, if you are a bare finger shooter, be sure to let your
hands get as wet as under actual hunting conditions.

Of course, you will realize that the lighter bows will
be affected more than the heavier equipment; however,
they will all be more difficult to shoot because of three
factors: Added weight of wet arrow, resistance on rest,
and the fact that it's harder to release with a soaked glove
or tab. Instinctive shooters must be prepared to adjust
mental sightings for changed wet conditions, and sight
shooters should realize the differences in settings between
dry conditions and wet conditions.

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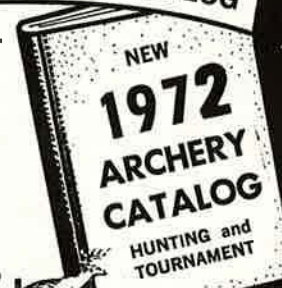
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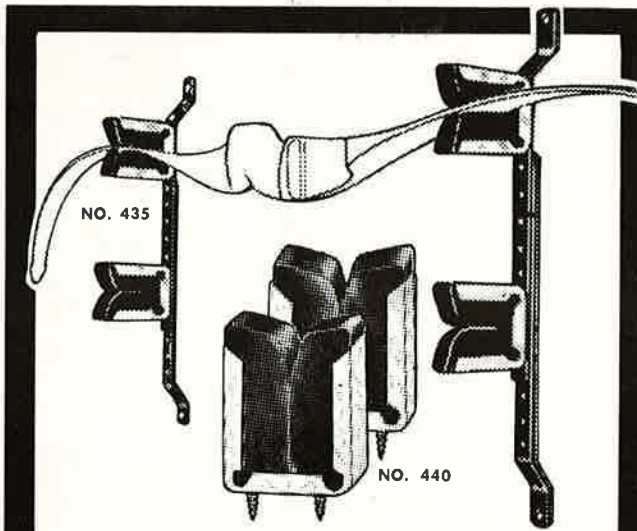
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Full details...

**\$15,000 PAA 1972 National Championship,
\$5,000 Invitational Tournament of Archery,
Olympic Qualifier, JOAD Tournament**

The week of June 26-July 3 will be busy for archers in Grayling, Michigan. The \$15,000 Professional Archers Association 1972 national championship will be there. The new \$5,000 Invitational Tournament of Archery will be there. An Olympic Qualifier will be shot there. And Junior Metric, Cadet Metric and JOAD outdoor rounds will also be shot. Which means that if you shoot archery, there ought to be something for you during that week.

The event is hosted by the Grayling Chamber of Commerce. The Olympic Qualifier and JOAD competition has been organized by the Michigan Archery Association, and the Qualifier is registered and sanctioned by the International Archery Federation and the National Archery Association.

In addition to the cash prizes for pro and open shooters, all contestants except JOAD competitors will be eligible for a drawing for two Olympic Tour tickets donated by Bear/Archery World. The Olympic Tour is a three-week trip featuring stops in Paris, Switzerland, and then Munich, Germany, site of the 1972 Olympic Games. This will be a historic event for archery, for it has been more than fifty years since archers competed in an Olympics, and then on a rather informal basis.

The PAA National Championship begins June 26 at Camp Grayling. Entrants will practice June 24-25. They will shoot four complete PAA Outdoor Rounds, one each day from June 26 through June 29. The \$15,000 purse breaks down into \$12,000 for forty places in the men's division and \$3,000 for ten places in the women's division. Here's a complete prize list:

MEN (\$12,000)					WOMEN (\$3,000)				
1	\$1500	15	225	29	105	1	\$1000	1	600
2	1000	16	200	30	100	2	600	3	400
3	870	17	190	31	95	3	400	4	300
4	800	18	180	32	90	4	300	5	200
5	700	19	170	33	85	5	200	6	150
6	650	20	160	34	80	6	150	7	125
7	600	21	150	35	75	7	125	8	100
8	550	22	140	36	70	8	100	9	75
9	500	23	135	37	65	9	75	10	50
10	450	24	130	38	60				
11	400	25	125	39	55				
12	350	26	120	40	50				
13	300	27	115						
14	250	28	110						

The First Invitational Tournament of Champions, which will be held at the same time as the PAA Nationals, carries a \$5,000 purse. The PAA has extended a special invitation to all archery champions—club, league, state, regional and national—to participate in this added championship event. If you're not a champion, but still want to shoot, it's quite certain that the tournament director will find a place for you in this Invitational. PAA members and apprentices are not eligible.

Entrants in the Invitational Tournament of Archery will also shoot four PAA Outdoor Rounds. The men's grand champion and women's grand champion will receive \$250 each. There will be a maximum of five flights. The PAA tournament committee will establish the number of flights according to total registration for the Tournament of Archery. There will be a minimum of twenty

people per flight plus ties. Flights will be established after the third round.

There will need to be a minimum of 100 entrants if all of the \$5,000 in cash prizes is to be awarded. The first flight will have \$1,200 available, the second flight \$1,040, third flight \$900, fourth flight \$780, fifth flight \$680. There will be 12 places paying in each of the flights. The top man and woman will receive the grand prize of \$250 each, and the remaining top twelve people in the first flight will automatically move up.

The balance of cash prizes, if not given in the flights, will be given to the Olympic Travel Fund in the name of the Professional Archers Association.

Pre-registration deadline is June 15. It's advisable to pre-register, because the drawing for the two Olympic tour tickets will be made from the pre-registration list only. Entry fee for the PAA National is \$45. Entry fee for the Invitational Tournament of Champions will be \$25. Registrations for both events must be sent to the PAA Business Office, 1500 N. Chatsworth St., St. Paul, Minn. 55117.

Following these two events, an Olympic Qualifier and Junior Olympic events will take place June 30-July 3. The Olympic Qualifier will be a Double FITA, with contestants shooting 72 arrows each day for four days. This is set up to duplicate the shooting schedule of the Olympics, and will give competitors an idea of what the actual Olympic event will be like. (There are two other four-day events in the country to duplicate Olympic conditions. See the NAA pages for information about the other two.)

The events for junior archers include two Junior Metric Rounds (36 arrows at 55 meters, 45, 35 and 25 with a perfect score of 1440 (10-9-8, etc., scoring rings); two Cadet Metric Rounds (36 arrows at each of 45 meters, 35, 25 and 15 meters with same scoring system); and a JOAD Outdoor Round (30 arrows at 30 yards and 20 arrows at 20 yards, perfect score of 540 on 9-7-5-3-1 scoring rings) for Intermediates, Juniors and Cadets. Competitors on these rounds don't need to be NAA members, but they must be JOAD members.

The junior events will be shot like the FITA—two distances each day so there will be two complete rounds shot after four days. The junior outdoor round will be shot four times, once completely each day.

These events were organized to give young shooters more opportunities to shoot and get the feel of competition.

The fee for all JOAD events is \$5, plus \$1 for an amateur card if you don't already have it. Any of the JOAD entrants may also shoot in the Olympic Qualifier if they wish; if you do, you must pay the regular \$20 entry fee for the Qualifier. And you must shoot the required adult distances. All entrants in the Olympic Qualifier will be eligible for the drawing of two Olympic Tour tickets, and this will not affect their amateur status.

A special invitation is extended to professional shooters to test their skills on the Double FITA. They obviously won't be eligible for the Olympic team, but they will receive an honorary certificate from the U.S. Olympic House if they compete and record a qualifying score (1100 men, 1050 women).

Bob Bitner president of the Michigan Archery Association, is tournament director for the Olympic Qualifier and JOAD events. Write to him at P.O. Box 119, Grayling, Michigan 49738 for application cards.



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Where admissions are charged to the public, as spectators, an additional charge is necessary and the exposure must be specifically endorsed into the policy.

Individual protection is limited to activities on club-owned premises or at premises of other clubs who are members covered under the master policy. Limits of personal liability include \$10,000 bodily injury for each person, and \$10,000 for each occurrence. Property damage liability for each occurrence is \$10,000.

All coverage is in excess of any other valid and collectible insurance.

Cost to clubs is based on membership with an annual flat charge as follows: 1 to 75 members, \$40; 76 to 150 members, \$45; 151 to 200 members, \$50; 201 to 300 members, \$55; 301 members and more, \$75.

For additional information, write the NAA office, Ronks, Pennsylvania 17572.

88th NATIONAL CHAMPIONSHIPS

The annual archery classic, the National Target Championships, is scheduled for Aug. 7, 8, 9, 10 and 11 at Miami University, Oxford, Ohio.

Adults and intermediates will compete in rounds of FITA, American and crossbow; juniors in the Junior Metric, 900 and American; cadets in the Cadet Metric, 900 and American. The professional archer is invited to participate with adults.

Prior to the 88th National Archery Championship events, qualified archers will compete in the Olympic Tryouts from Aug. 2-5. Spectators are invited.

4th Field Championships

The United States 5th Annual Field Archery Championship is scheduled for July 22-23 at the Seven Springs Mountain Resort Area near Somerset, Pa.

Events are 28 International Hunter Targets with distances marked and 28 International Field Targets with distances marked. The fee is \$10 per archer and membership in NAA is required.

Awards will be given to adults (amateur and professional) and to Intermediates. The title of United States Champion Field Archer is conferred on women and men (amateur, professional, freestyle and barebow), intermediate boy or girl, high score only.

For accommodation information, write Seven Springs Mountain Resort Area, Champion, Pa. 15622, or telephone 814-926-2031.

OLYMPIC QUALIFYING SCORES

Here's the list, as of mid-April, of those who have registered one or more qualifying scores (1100 men, 1050 women) for the Olympic Tryouts:

Peter Albinski, New York; Gerald M. Aston, Pa.; Ronald Beane, Pa.; Bob Bakken, Minn.; Joe Blazek, Ill.; James J. Bots, Mo.; Douglas J. Brothers, Ohio; Robert Brown, Conn.; Robert Craig, Ind.; Raymond Dasch, Pa.; Edwin M.

Eliason, Wash.; Kevin Erlandson, Cal.; Max Fearn, Ill.; Rudy Folds, Cal.; Stan Goldys, Ill.; William Grant, N.J.; Mark Hall, Conn.; John D. Henriksen, Minn.; John T. Hubert, Pa.; Alfred Hubner, Pa.; Thomas Jeffery, Mich.; John Kasun, Pa.; Keith Kemmerer, Pa.; Jere F. Kuhns, Pa.

Chris Labucki, Mass.; Robert H. Lane, Iowa; Stephen Leiberman, Pa.; John Littell, Cal.; Richard McKinney, Ind.; Walter Martin, Jr., N.J.; James Mellinger, Cal.; Tom Miesner, Cal.; Brian A. Metzger, Pa.; Curt Moore, Wash.; Allen Muller, Minn.; David Nurney, Mass.; Gary Dean Otis, Minn.; George Papenfuss, Wis.; Vance L. Patrilla, Iowa; Gordon Paulson, Cal.; Wesley J. Pemble, Minn.; James Persing, Pa.; John Preston, Pa.; Dom Rabska, Cal.; Karl Radde, Cal.; Charles W. Rankin, Wis.; Richard S. Reed, Mich.; Jon Lee Richey, Mass.; Don Ripple, Pa.; Paul Schone, Cal.; Joseph Sheppard, N.J.; William C. Shields, Del.; Russell Sill, Cal.; George A. Slinzer, Pa.; Larry Smith, Pa.; Edw. R. Sroka, Pa.; Joe T. Thornton, Okla.; Phil Trafton, Cal.; Mark Vancas, Ariz.; Ray Wade, Mich.; Gerald C. Wallace, Pa.; Mark W. Wallace, Minn.; Hardy Ward, Va.; Bill West, Cal.; Richard White, Ind.; John C. Williams, Va.; Steve Wilson, Ill.; David Wroblewski, Mich.; Charles Olmsted, Everett M. Wingfield.

Helen M. Allen, Ariz.; Maureen Bechdolt, Ohio; Victoria Cooke, Minn.; Janet L. Craig, Ind.; Vonda Fisk, Ore.; Barbara Hoburg, Pa.; Sandra L. Kasun, Pa.; Barbara A. Brown McKibben, Conn.; Linda Myers, Pa.; Nancy Myrick, Fla.; Diana Oden, Pa.; Ruth E. Rowe, Pa.; Eunice M. Schewe, Ill.; Jane Slade, Miss.; Carol Strausburg, Cal.; Joan Strimple,

Nebr.; Rose Svarc, Cal.; Sue Vancas, Ariz.; Diane Vetrecin, Cal.; Gail Vittitoe, Cal.; Ruth Wallace, Pa.; Clela Wanamaker, Minn.; Donna Wesson, Ariz.; Doreen Wilber, Iowa; Ruby Wooten, N.C.

FITA Lists Top Archers

The International Archery Federation (FITA) lists 8 women and 10 men from four continents and 11 countries.

WOMEN

1. Emma Gapchenko, U.S.S.R.
2. Mrs. Doreen Wilber, U.S.A.
3. Irene Szydłowska, Poland
4. Mrs. Anna-Lisa Berglund, Sweden
5. Mrs. Maria Maczynska, Poland
6. Jadwiga Szosler, Poland
7. Mrs. Agnes Hamvas, Hungary
8. Mrs. Victoria Cook, U.S.A.

MEN

1. John C. Williams, U.S.A.
2. Kyosti Laasonen, Finland
3. Arne Jacobsen, Denmark
4. Hyroshi Kajikawa, Japan
5. Olle Bostrom, Sweden
6. Victor Sidoruk, U.S.S.R.
7. Wayne Pullen, Canada
8. Siegfried Ortmann, West Germany
9. Hardy Ward, U.S.A.
10. Graeme Telford, Australia

Tournament Schedule

- May 20 — F.I.T.A. Star and Olympic Qualifier, Orlando, Fla., c/o James M. Frazee, Jr., P. O. Box 566, Altamonte Springs, Fla. 32701
- May 20 — Iowa State FITA Championship, c/o Joyce Isaacs, 729-14th Ave., Coralville, Ia. 52240
- * May 20 & 21 — Olympic Qualifier, Mt. Horeb, Wis. c/o Vernon D. Lunde, 311 Nesheim Trail, Mt. Horeb, Wis. 53572
- May 21 — Nassau Bowmen, American or 900 Round, Eisenhower Park, East Meadow, L.I., New York, Marie Westhead, 27 Lloyd St., New Hyde Park, NY 11040
- May 21 — Olympic Qualifier, Pheasdale Archers, Lansdale, Pennsylvania, Elizabeth I. High, 2075 Bergey Rd., Hatfield, Penna. 19440
- May 22 & 23 — International Trial Tournament, Munich, Germany — Purpose to evaluate effect for Olympic Sept. 6, 7, 8, 9, 1972
- May 26 to 29 — Double FITA and Olympic Qualifiers, Millersville State College, c/o Julia Bowers, Women's P.E. Dept., Millersville, Pa. 17551
- May 26 to 29 — Double FITA Star and Olympic Qualifier, Rancho Encino Archers, Van Nuys, California, c/o Cathy Tusing, 5846 Cahill Ave., Tarzana, Calif. 91356
- May 27 — FITA Star and Olympic Qualifier, Brown County, Indiana, Tom Hock, 7100 Euclid, Cincinnati, Ohio 45243
- May 27 & 28 — FITA Star and Olympic Qualifier, Wildlife Archers, c/o Robert W. Diehl, 4908 Greenwood Ave., N., Seattle, Wash. 98103
- May 27 & 28 — Double American, Viking Archery Course, Mt. Horeb, Wisconsin, Vernon D. Lunde, 311 Nesheim Trail, Mt. Horeb, Wis. 53572
- May 28 — New Brunswick Archery Club, American Round-six golds, Shirley Bryant, Bath Rd., New Brunswick, Maine 04011
- May 28 — Carling-MAA Charity Tournament, Carling Brewing Co., Baltimore, Md. Write Margaret Mazzeo, Rt. 1, Box 65, Indian Head, Md. 20640
- June 3 — Olympic Qualifier, 89er Archery Club, Guthrie, Oklahoma, Ida Revis, 1500 E. Vilas, Guthrie, Okla. 73044
- * June 3 & 4 — Olympic Qualifier, Wildlife Archers. c/o Shirley Kesler, 8531 - 24th Avenue N. W., Seattle, Wash. 98107
- June 4 — Olympic Qualifier, Bloomsburg Archery Club, Bloomsburg, Pennsylvania, Keith Schuyler, Jr., R. D. No. 2, Berwick, Penna. 18603
- June 4 — Olympic Qualifier, Columbus Park, Chicago, Illinois, Sylvia Levitt, 2613 S. 11th Ave., Broadview, Ill. 60151
- June 4 — Phila. Archery Club, Belmont & Edgely St., Philadelphia, Penna., James I. Johnson, 2250 Disston St., Philadelphia, Penna. 19149
- June 10 — Olympic Qualifier, Forest Park, St. Louis, Missouri, Mrs. Roy Roff, 4219A unt Ave., St. Louis, Mo. 63110
- June 10 & 11 — Two Olympic Qualifiers, Mecklenburg Archers, Charlotte, North Carolina, Jean E. Arthur, Route No. 9, Box 152W, Charlotte, N. C. 28208
- June 10 & 11 — NAA International Field Round (28 targets), Viking Archery Course, Vernon D. Lunde, 311 Nesheim Trail, Mt. Horeb, Wisc. 53572
- June 11 — Olympic Qualifier, York Archers, York, Pennsylvania, Stanley Lenhart, 811 Penna. Ave., York, Penna. 17404
- June 11 — Olympic Qualifier, Bloomfield-Linden Archers, North Field Brookdale Park, Bloomfield, New Jersey, Mrs. Adam Konchus, 1006 Winans Ave., Linden, N. J. 07037
- June 11 — Olympic Qualifier, Target Archers, Earl Rozar, 4448 Boyar Ave., Long Beach, Cal. 90807
- June 17 & 18 — N.A.A. International Hunter Round (28 targets), Viking Archery Course, Vernon D. Lunde, 311 Nesheim Trail, Mt. Horeb, Wisc. 53572
- June 17-18 — 2 Olympic Qualifiers, Midwestern Championships, Bu Park, St. Louis County, Missouri, c/o Robert H. Rollins, 7 Ladue Hills, St. Louis, Missouri 63132
- * June 18 — Olympic Qualifier, York Archers, c/o Stanley Lenhart, 811 Pennsylvania, York, Pa. 17404
- June 18 and 25 — Two Olympic Qualifiers, Nassau Bowmen, Eisenhower Park, East Meadow, Long Island, Marie Westhead, 27 Lloyd St., New Hyde Park, New York 11040
- * June 24 & 25 — Field Qualifier, Mt. Horeb, Wis., c/o Vernon Lunde, 311 Nesheim Trail, Mt. Horeb, Wis. 53572
- June 25 — Olympic Qualifier, Riis Park, Chicago, Illinois, Sylvia Levitt, 2613 S. 11th St., Broadview, Ill. 60153
- June 25 — Iowa State Target Championship, Mrs. Joyce Isaacs, 729-14th Ave., Coralville, Ia. 52240
- June 30, July 1, 2, and 3 — Two FITA Star and one Olympic Qualifier, Michigan National Guard Parade Grounds, Grayling, Michigan, Write: Clayton B. Shenk, 2833 Lincoln Highway East, Ronks, Pennsylvania 17572
- July 1 & 2 — FITA Star, one American, one 900, Southern Archery Assoc., Baton Rouge, Louisiana, Mrs. Grace Amborski, 437 Baird Dr., Baton Rouge, La 70808
- July 4 to 8 — Eastern Archery Association, Rutgers University, New Jersey, July 4th — FITA Star, Shirley Renard, 311 Mountain Ave., Apt. C-8, Bound Brook, N. J. 08805
- July 15 & 16 — New York State Archery Championship, Greene, New York, Donald Cobb, Greene, New York 13778
- July 29 & 30 — Tryout Tournament to select the Team to represent USA in 3rd World Field Archery Championship in Venice, Italy, which is Sept. 16 and 17, 1972. Location: North Park Sportsmen, near Pittsburgh, Pa., Write: N.A.A., 2833 Lincoln Highway East, Ronks, Pa. 17572
- Sept. 16 & 17 — 3rd World Field Archery Championship, Venice, Italy, 28 International Field, 28 International Hunters. Field Archery Rules of Shooting by International Archery Federation apply.
- Sept. 24 — Maryland Archery Assn. Target Championship, Carling Brewing Co. field, Baltimore. Write Margaret Mazzeo, Rt. 1, Box 65, Indian Head, Md. 20640
- Oct. 7-8 — Third U. S.-Bermuda Tournament, in Bermuda. Write Bill Stump, Beaver Dam Rd., Cockeysville, Md. 21030

* — new listing

Scores recorded at an Olympic Qualifier may be used to establish eligibility to compete in the Championship of the Americas scheduled for late November or early December or the World Archery Championship in 1973.

Archers wishing to participate in the Olympic Tryout August 2, 3, 4 and 5, 1972 must have recorded four scores from four Olympic Qualifiers on or before July 2, 1972. The scores from each of the four events must be 1100 or more for gentlemen and 1050 or more for ladies. The International Archery Federation established these requirements at the Bi-Annual Congress Meeting, August, 1969 at Valley Forge, Penna.

FOUR-DAY QUALIFIERS

Four-day Olympic qualifying tournaments are scheduled at three locations across the nation. The events are geographically located in the East, West and Midwest to be convenient to all archers. These are exact duplicates of the shooting schedules for the Olympic Archery Games at Munich, Germany, Sept. 6, 7, 8 and 9.

The schedule for these tournaments is 72 arrows each day. The first day: 90 and 70 meters for men, 70 and 60 meters for women. The second day: 50 and 30 meters for women and men. The third and fourth days will repeat this schedule. Number of arrows at each distance is 36; perfect score is 360. Perfect score for 144 arrows is 1440.

The tournaments are registered with the International Archery Federation, and new world records may be established at each distance for a single FITA round.

May 26, 27, 28 and 29—Van Nuys, Calif. Organized by Rancho Encino Archers. Write Cathy Tusing, 5846 Cahill Ave., Tarzana, Calif. 91356.

May 26, 27, 28 and 29—Millersville State College, Millersville, Pa. (3 miles west of Lancaster). Organized jointly by Millersville State College Archery Club, Lancaster Archery Club and The Pennsylvania State Archery Association. Write Julia Bowers, P. E. Dept., Millersville State College, Millersville, Pa. 17551.

June 30, July 1, 2 and 3—Grayling. Organized by Michigan Archers Association and the Grayling Chamber of Commerce. Write Robert Bitner, P. O. Box 119, Grayling 49738. (Note: The single FITA Round on June 30 and July 1 is an Olympic Qualifier only.)

PNW Pro-Am Collegiate Indoor Champs

One hundred thirteen Pacific Northwest archers competed for honors at the recent Northwest Pro-Am and Collegiate Indoor Archery Championships. Dwight Nyquist, tournament director, reports that interest was heightened by having everyone first shoot a qualifying score and then having the top ten in each division compete for final standings, disregarding qualifying scores.

In this final competition, a 16-inch Denver target face was used. Competitors shot four ends of five arrows and the white center spot was used as an 'x' like the small center 'x' is used in rifle shooting. The five-point ring is larger than the center spot, so with the 'x' ring there were several gradations of perfect scores possible. Absolute perfect would have been a 20x100. As you'll see in the scores, Bill Wilkerson's 12x100 in pro men's unlimited was the best score shot.

Nyquist reported this heightened interest and tension. The final rankings were: professional men, limited—Don Kudlacek, Longview, 8x99; Rod Schooler, Klamath Falls, 7x98; Jerry Killian, Portland, 6x98; Ed Bain, Vancouver, Wash., 8x97. Pro men, unlimited—Bill Wilkerson, Vancouver, 12x100; Bill Rice, Kennewick, 13x99; Roland Haggard, Redmond, 12x99; Charles Diller, Jefferson, 10x98; Duwayne Harrison, Seattle, 7x98. Pro men, barebow—Pete Hamilton, Kirkland, 4x87.

Pro women, limited—Diane Roberts, Tacoma, 4x93. Pro women, unlimited—Ann Schooler, Klamath Falls, 11x97; Nancy Crowell, Tacoma, 9x96.

Adult amateur men, limited—Ed Eliason, Seattle, 9x97; S. L. Smith, Port Orchard, 7x96; Bob Whipple, Bothell, 5x95. Adult amateur men, unlimited—Gary Davenport, Albany, Ore., 9x100; Judd Hemperly, Scio, Ore., 8x99; Don Fortune, Albany, Ore., 8x99. Adult amateur men, barebow—Robert Hoard, Federal Way, 2x90; Dick Smethurst, Lynnwood, 3x81; John Paddock, Seattle, 2x81.

Adult amateur women, limited—Martha VanVoorst, Bellingham, 2x91; Vonda Fisk, Portland, 0x88; Kathy Stapleton, Federal Way, 0x73. Adult amateur women, unlimited—Bev Smith, Port Orchard, 3x93; Ann Fortune,

Albany, Ore., 3x86. Adult amateur women, barebow—Helen Armbruster, Renton, 2x76.

Collegiate men, limited only—Tim Jones, UW, 5x94; Curt Moore, Shoreline, 6x93; Barry Binder, UW, 7x88. Collegiate women, limited only—Darlene Martin, Shoreline, 5x90; Elaine Dawson, UW, 5x90; Debora Land, Boise State, 6x83.

Pro limited team winner was Killian-Schooler-Killian. Pro unlimited winner was Lueck-Diller-Schooler. Amateur limited team winner was Cannon-VanVoorst-Whipple. Amateur unlimited winner was the Davenport-Fortune-Fortune team. Top collegiate team was Hage-Bleck-Land, Boise State.

New FITA Record at Minn. Indoor Qualifier

George Papenfuss, 19, Milwaukee, Wis., lead a host of fine scores at the recent Minnesota Indoor Olympic Qualifier with a new Single FITA record of 1257. The total substantially topped John Williams previous record of 1242. There were 14 qualifying scores shot. Following Papenfuss in men's amateur were Williams, 1220; Muller, 1208; Wallace, 1202; Lane, 1189; Hendrickson, 1180; Botts, 1173; Rankin, 1161; Ward, 1155; Goldy, 1150, and Baaken, 1106. Women qualifiers were Cook, 1164; Schewe, 1120, and Strimple, 1098.

PNAA TARGET CHAMPIONSHIPS

The 44th Annual Pacific Northwest Archery Association target shoot will be Aug. 4, 5 and 6 in Longview, Wash., hosted by the Vagabond Bowmen.

This year all championship rounds will be shot by AAC shooting rules and will be sanctioned by NAA for 6 golds. The Pro Tour, a new division last year, will be separated into limited and unlimited divisions in both the men's and women's divisions.

ARCHERY IS CHARTER ACTIVITY IN PRESIDENTIAL PHYSICAL FITNESS PROGRAM

Archery is one of 28 charter sports involved in the launching of the Presidential Sports Award Program. The program, recently launched nationally, involves meeting certain basic requirements in a selected sport over a period of four months. Only people 18 or older may participate.

The general principle governing qualification for the Presidential Sports Award is a minimum of 50 hours of participation, spread over at least 50 activity sessions within the four-month period. Where seasons are short or facilities limited, the 50 hours will still be required but they may be accomplished in fewer than 50 sessions.

As the standards indicate, the program's goal is increased volume and regularity of sports participation by Americans. The archery program will involve the shooting for record of 3,000 arrows, of which no more than 60 arrows may be credited toward the total in any one day. Minimum target distance is 15 yards. In field or roving archery, there should be 14 different targets, each at 15 yards or more.

The National Archery Association has been asked by the President's Council on Physical Fitness and Sports to endorse the concept, and has done so. The NAA has assisted in the specifications for the award, but does not need to validate the requirements.

Instead, those participating, or wishing to participate, should write directly to the PCPFS. The council will then send the requirements, procedures and card for registering the date and time or distance of his participation. The individual will certify that he has completed the requirements and forward the card with the necessary fee to the Council's designated agency.

The fee will not run more than \$3 to the individual, and in return he will receive a high-quality enameled lapel pin,

an embroidered emblem suitable for wear on blazer or athletic gear, and a certificate bearing the President's signature and seal. The emblem will bear the name of the sport for which the award was given.

In sports where there is enough interest, and where standards can be agreed upon, there will be a Master's award. It will be based on demonstrated skill and proficiency, at a high level, rather than on regularity of participation.

WORLD FIELD TRYOUTS

A United States Field Archery team will compete at the World Field Archery Championships in Venice, Italy, Sept. 15-16-17. Tryouts for the team will take place July 28-29 at the North Park Sportsmens Club near Pittsburgh, Pa.

Qualifying scores for the tryouts are 450 men and 400 women in freestyle and 400 men and 350 women in barebow. Scores must be recorded by July 9. Although a total of eight persons from the Association are permitted to attend the World Championships, the number sent will be determined by the funds raised.

42nd Brown County Open

The 42nd annual Brown County Open Tournament will be at Nashville, Ind., in the Brown County State Park on May 27, 28 and 29.

The event, sponsored by the Chicago Park District Archery Association in cooperation with the Brown County Park Commission, is NAA-registered six gold and Star FITA.

Pre-registration charges paid on or before May 20 are: seniors—all events, \$8; FITA or American, \$4; clout, \$1; intermediate juniors and cadets—all events, \$5; FITA or American, \$3; clout, \$1; non-amateur or pro—all events, \$8; FITA or American, \$4; clout, \$1. Fees paid on the field run \$1 higher for adults and 50 cents higher for intermediates. A special pre-registration fee of \$22 applies to families with two or more children under 18.

Registration on the range takes place Saturday, May 27 from 10 a.m. to 2 p.m. followed by the clout shoot. At 8:30 that evening there will be a Board of Governors Meeting at Abe Martin Lodge. Sunday's registration on the range is from 7:30 to 8:30 a.m. At 8:30 there will be the inspection and sighter arrows. At 9 o'clock the first 72 arrows of the FITA round will be shot by the ladies and intermediate girls (70 and 60 meters), men and intermediate boys (90 and 70 meters) and by the juniors and cadets (junior and cadet rounds). After lunch the last 72 arrows of the FITA round will be shot with the juniors and cadets repeating the morning round.

On Monday, registration again will be from 7:30 to

8:30 a.m. At 9 a.m. adults and intermediates will shoot the American Round 900 and the juniors and cadets will shoot junior and cadet rounds. All awards will be presented 90 minutes after completion of the 900 American.

To pre-register or for additional info write to Mrs. Florence Lilly, 5354 W. Oakdale Ave., Chicago, Ill. 60641.

NYSAA INDOOR CHAMPIONS

Kaare Haugland of Patchogue and Marilyn Minasian of Syracuse captured New York State Archery Association Indoor Amateur Championship titles March 19 based on an NAA 900 Round at Nassau Community College.

Haugland shot a 810 and Minasian a 759. Haugland started archery in 1964, participating mostly in field events, winning the NYFA Championship at Watkins Glen in August 1971. He is a member of both the Suffolk Archers and the Sunrise Archers. Miss Minasian has participated in both target and field events, winning many state and national events as an intermediate. She presently is a director of the New York State Archery Association.

Rudy Goldman, Woodbury, won the Professional Division Championship with an 803. He is one of three New Yorkers who have, so far, succeeded in attaining FITA Qualification scores (even though as a professional he cannot qualify).

Richard Schweizer of Rosedale took the crossbow division with a 475.

Jean Ockert of Freehold, N.J., shot 838, surpassing Benny Tirado's year-old record by three points. Ruth E. Rowe of Pittsburgh, Pa., set a new record of 774 for the women.

Other top scores were: Amateur Men, Freestyle AA—Everett Schreiber, Levittown, 782; Amateur Men, Freestyle A—Angelo Cimarrelli, Great Neck, 772; Amateur Men, Freestyle B—Frank Franzo, Plainview, 655; Amateur Men, Barebow AA—Rudolph Delgado, Brentwood, 685; Amateur Men, Barebow A—Walter Kop, North Babylon, 746; Amateur Men, Barebow B—Al McQueen, Freeport, 629; Amateur Men, Barebow C—Robert Darby, Rosedale, 670;

Amateur Women, Freestyle A—Helen Renalds, Franklin Square, 637; Intermediate Boys Freestyle—Peter Albinski, Baldwin, 779; Intermediate Boys Barebow—Stephen Bacallao, West Islip, 699; Intermediate Girls Freestyle—Dale Zuckerman, East Meadow, 536; Junior Boys Freestyle, John Albinski, Baldwin, 756; Junior Boys Barebow—Rene Bacallao, West Islip, 600; Intermediate Girls Freestyle—Debbie Haugland, Patchogue, 656; Cadet Boys, Freestyle, Philip Jarber, Jericho, 609; Cadet Boys Barebow—Nicholas Giambrone, West Islip, 475; Cadet Girls, Freestyle—Kathleen Westhead, New Hyde Park, 316; Cadet Girls, Barebow—Theresa Kop, N. Babylon, 502.

Join The National Archery Association!

No matter what kind of archery you like best, you should join NAA! Its brand of shooting and its club activities are fun — and challenging! Besides, NAA works for the promotion of all archery, and your support means a lot. NAA represents all archery before the U.S. Olympic Committee and FITA, our sport's International federation. Another thing: NAA, founded in 1879, is tradition-laden. Yet it's as modern as tomorrow. It's well-organized, it's growing, it'll be more and more important to archery — and to you! — as time goes on. And here's something else, too:

YOUR MEMBERSHIP INCLUDES A SUBSCRIPTION TO ARCHERY WORLD



Individual membership, \$5 a year. Family membership, \$6 incl. husband, wife. \$1 more for under-18ers. \$3.50 for under-18ers who join independently of family. Includes magazine!

Name(s) _____ Soc. Sec. No. _____

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City _____ State _____ Zip _____

Individual Family Youngster(s) under 18

\$ _____ Make checks payable to the National Archery Assn. Mail to NAA, Ronks, Pennsylvania 17572
Enclosed



LANE NEWS

BEAR AMERICAN ALOA TEAM RESULTS



The Bison Archery, Buffalo, N. Y., team of Dave Young, Denny Wilson, Roger Kruzicke and George Cordiero shot a 1219 to take home the \$300 first prize at the recent Bear American Indoor Archery Tournament ALOA team event.

The Bow Rack, St. Clair Shores, Mich., team of Martha Stoepel, Jean Rundgren, Gerry McDonald and Char Keller, picked up the second place \$200 check with a 1218. Third place and \$150 went to the Starlight Archery East, Warren, Mich., team of Chuck Battle, Bob Kowalick, John Fitzpatrick and Dick Nap with a 1210. Fourth place and \$125 went to the Starlight North, Detroit, team of Bob Hall, Jon Quisenberry, Art Heskamp and Dorothy Heskamp with 1209. Another Starlight North team of James Coon, Gus Gooselin, Jr., Gus Gooselin, Sr. and Sandy McCarthy took fifth place and \$100 with a 1208. Click's Archery, Springfield, Ohio, team of Harold Skeen, Jack Perigo, Frank Van Hoose and Kem Perry shot a 1207 for sixth place and \$75. Seventh and \$50 went to the Jo-Jan Sports, Baltimore, Md., team of Dave Jackson, Will Goodman, Don Ackenback and Tom O'Neil with 1207.

ARCHERY CENTER ALOA-RAMA WINNERS

February and March ALOArama results at the Archery Center, Madison, Wisconsin, produced the following winners: February first line (drawing, third game only) — Ron Imhoff, 91 and Mimi Bentley, 91 on Lane 1; Phil Morrison, 96 and Ann Woodman, 92 on Lane 2; Sandi Steffen, 89 and Dennis Lorch, 88 on Lane 3; Jerry Furstenberg, 87 on Lane 4. February second line (drawing, total score) — Ken Elmer, 274, and Dick Gjerde, 271 on Lane 1; Dudley Runkel, 268 and Dennis Frey, 262 on Lane 2; Mark Houslet, 260 and Pat Hanson, 252 on Lane 3; Russ Thompson, 246 on Lane 4.

March shooting, first line (drawing, total) — Ken Kundert, 281 and Ken Elmer, 274 on Lane 1; Phil Morrison, 272 and Ray Small, 271 on Lane 2; Del Elmer, 264 and Sue Pecker, 256 on Lane 3; Sandi Steffen, 251 on Lane 4. Second line shooting (drawing, third game only) — Dean Retzlaff, 89 and Dan Kraft, 88 on Lane 1; Marv Frydenlund, 88 and Tom Tietz, 86 on Lane 2.

BURK WINS CHALK & CUE PRO-AM

Wayne Burk, with a perfect 300, topped all shooters at the first annual Chalk 'n' Cue Pro-Am, Joliet, Ill. He won the men's open division by two points over Gary Buttry and Don Pfohl, who both carded 298s. Ladies' Open winner was Mary McCoy with a 295, which was four points ahead of Lucy Drake's 291 for second.

Amateur winners were Rick Rogers with a 295 and Marlene Standley with a 271.

Following Burk, Buttry and Pfohl in men's open were Jerry Smith, 297; George Chapman, 297; Tom Hodges, 296; Pete Shepley, 295; Dickie Roberts, 295; Bob Harper, 295; and Rich Manegold, 295. Following McCoy and Drake in women's open were Sue Snyder, 287; Barb Burk, 285; Sue Zupancic, 280. Behind Rogers in men's amateur were George Frost, 294; Mike Flier, 292; Danny Biggs, 284. Kay Manegold, with a 267, was the second place winner in women's amateur.

Total purse was \$2,107.80. The tourney was co-hosted by Chuck Ladas, Pete Shepley and George Chapman. Bill Jackson, Champaign, Ill., refereed.

FIRST MIDWEST ALOA TOURNEY

David Lerner, Milwaukee (West Town), shot a 266 to go with his 44 handicap for a 310 total and won the top prize, a Victor Viking take down bow, at the first annual Midwestern ALOA region handicap merchandise tournament. The event was co-sponsored by midwestern ALOA lanes and Bear Archery.

There were 114 entrants. Handicap shooters' averages were taken from the highest two scores from the last six league scores, and handicapped at 80 percent of the difference of that average from 290. All shooters, except for amateurs, were in the handicap division.

Behind Lerner were Sanja Anderson (Midway, Menasha) with a 245 (56) for 301; Gordon Bentley (Madison Archery Center) 293 (4) 297; Merle Manion (Madison Archery Center) 292 (5) 297; Dan Thurner, Milwaukee (West Town) 275 (22) 297; Lucky Flaminio, Milwaukee (Whiffen) 296 (no handicap); Wendell Krause, Milwaukee (West Town) 294 (no handicap); Robert Schulga, Milwaukee (West Town) 281 (12) 293; Ray Smail, Madison Archery Center, 274 (19) 293; Darwin Johnson, Midway, Menasha, 292 (no handicap); Denny Koerner, Midway, Menasha, 286 (6) 292; Ken Kundert, Madison Archery Center, 283 (9) 292; James Kraus, Midway, Menasha, 287 (17) 292.

High men's scratch was Lucky Flaminio, Whiffen, with 296. High women's scratch was Nancy Wachholz, Madison Archery Center, with 279.

Junior winners were Tom Tietz, Madison Archery Center, 262 (34) 296; Mike McAllister, Midway Archery, Menasha, 274 (16) 290; Dave Wilfing, Midway, 252 (34) 286; Steve Hazeltine, Janesville Archery, 259 (24) 283; Randy Reid, Madison, 257 (22) 279; Don Nevaizer, Madison, 227 (49) 276; Joey Barbicour, Janesville, 266 (8) 274.

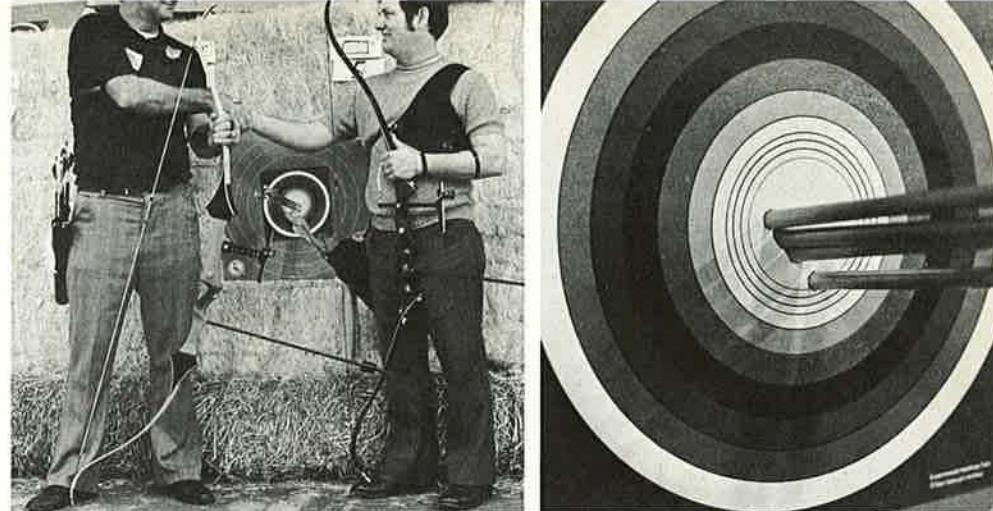
Amateur men winners were Bill Rankin, Waukesha, 297; Jim Seefelt, West Town, 290; Udo Scholz, West Town, 281; Terry Krentz, Midway 262. Amateur women winners were Judy Katzka, Whiffen, 272; Susan Pecker, Madison, 268; Joan Katzka, Whiffen, 263.

MIDWAY ALOA-RAMA WINNERS

Top shooters on the February 26 ALOArama line at Midway Archery, Menasha, Wis., were Dave Bloechl, 96 and Jim Reese, 91 on Lane 1; Gene Stusek, 91 and Nancy Reese, 88 on Lane 2; Jim Kraus, 91 and Jim Dombrowski, 91 on Lane 3; Vicki Koerner, 91 and Mark Miller, 85 on Lane 4; Ken Kroiss, 81 and Joe Huisman, 78 on Lane 5. All winners selected on third game drawing.

• Don Snyder, left, congratulates Don Pfohl, winner of the ALOA experimental handicap shoot-off. Right, Pfohl's winning group on the experimental face.

ALO A EXPERIMENTAL SHOOT RESULTS



The experimental handicapping system used at a test shoot at Don Castrup's Archery Center, Evansville, Indiana, last month brought some interesting results. For instance, the archers shooting Class AA at a two-inch five point spot still managed to finish on top of the pack. Yet, a Division II shooter — Don Snyder of Romeoville, Ill. — who was shooting at a four-inch spot, equalled Don Pfohl's 299 on a two-inch spot in the handicap shooting to force a shootoff for the handicap title. Pfohl won, but it did prove that a man can come up from the ranks and challenge the top guys.

Shooters, generally, were quite satisfied with the results. With the number of various-sized scoring rings on one target face (see photo) their eyes tended to have trouble adjusting at times, but they also agreed that a system of alternating contrasting colors would probably solve this.

Some shooters on the smaller spots stated they believe a hooded sight which would block out all but the small spot they were aiming at would work well.

Ed Friend, Newburgh, Indiana, a 285 shooter, which placed him on the 3¼-inch handicap spot, said the gold ring (just outside the white) made it a little difficult to aim, but he still came up with a 290. "I liked it, although I'd like to see a color scheme which would make the rings easier to see. It seemed to be ok for the low average shooter, too, because their groups aren't as consistently tight."

George Martin, a long-time shooter from Newburgh, Indiana, said, "I believe it's as fair a round as I've seen, without unduly hurting the top shooters."

Dennis Baker, Evansville, stated, "I think this handicap system could eventually bring everyone's score competitive, no matter how he shoots. The smaller the spot, the more you have to concentrate; conversely, the larger the spot, the more you'll float. As a result, I think the better shooters will still generally finish on top."

Don Snyder, Romeoville, Ill., said he thought the system was very fair. "I didn't like it at first, because I'd never shot on that face before. But it grows on you." It apparently does, for he shot a 299 on the four-inch spot to earn a shootoff with Pfohl. He is a 277 shooter on the standard 3¼-inch spot.

Jerry Smith, Oakwood, Ill., commented that he didn't see much difference between this system and handicapping on the numbers, because "this system or any is only as accurate as archers are honest. But I must compliment Don Castrup and the people helping him, for they did an excellent job of putting people in their proper handicap." Handicaps were decided on the basis of reported scores and averages from the shooters' home leagues.

Smith, a release shooter, shot a 298 on the standard round and a 288 on his handicapped two-inch spot.

Vic Berger, who was granted special permission to shoot at this unsanctioned event, commented that the system seemed fair to him. "The low handicap shooter will still usually finish quite high, and the higher handicap shooters,

until they can group more consistently, will probably finish with scores along the line with their abilities. Particularly when you place a standard round and a handicap round together for a final overall score. Then each has the opportunity to move up or down with his ability."

Castrup explained that this is the reason behind the handicap system. Borrowed from the American Trap Association, a shooter handicaps himself onto a smaller spot as his average increases, thereby determining his own level. When this is coupled with a standard round for an overall score, the abilities generally fall true.

Here are the overall results of the combination event, which had a standard round on Saturday and a handicap round on Sunday:

HIGH OVERALL AWARDS

	Class	Std.	Hdcp.	Total	Dia.
DIVISION I					
Don Pfohl, Newburgh, Ind.	AA	300	299	599	2"
Tom Hodges, Boonville, Ind.	AA	300	292	592	2"
Vic Berger, Springfield, Ohio	AA	300	292	592	2"
Dennis Baker, Evansville, Ind.	AA	300	290	590	2"
Pete Shepley, Mahomet, Ill.	AA	298	291	589	2"
Alva Rinehart, Newburgh, Ind.	AA	298	289	587	2"
George Chapman, Marshall, Ill.	AA	298	289	587	2"
Jerry Smith, Oakwood, Ill.	AA	298	288	586	2"
John Simpson, Chandler, Ind.	AA	297	287	584	2"
Dick Drake, Danville, Ill.	AA	291	292	583	3¼"
Lucy Drake, Danville, Ill.	A	289	292	581	3¼"
Don Wallace, Evansville, Ind.	AA	283	291	574	2¾"
John Whalen, Evansville, Ind.	AA	286	278	564	2¾"

DIVISION II					
Rich Mayes, Morganfield, Ky.	A	275	290	565	4"
Gerald Taylor, Boonville, Ind.	B	269	280	549	5"

AMATEUR DIVISION					
Steve Masterson, Evansville, Ind.	AA	297	296	593	2¾"
Greg Roeder, Evansville, Ind.	AA	295	286	581	2¾"
Michael Taylor, Evansville, Ind.	A	280	289	569	4"

Awards went to Don Pfohl, Newburgh, Ind., high overall champion; Vic Berger, Springfield, Ohio, high overall company representative; Lucy Drake, Danville, Ill., high overall woman; Joe Reeves, Goodlettsville, Tenn., Division I high man handicap; Jody Hansen, Indianapolis, Division I high woman handicap; Don Snyder, Romeoville, Ill., Division II high man handicap; Kathy Baker, Evansville, Division II high woman handicap; Gene Hanley, Indianapolis, amateur high man handicap; Paula Matheis, Huntingburgh, Indiana, amateur high woman handicap; Steve Masterson, Evansville, amateur youth high boy; Tom Hodges, Boonville, Ind., high man standard round class AA (won four-way shootoff); Lucy Drake, Danville, Ill., high woman standard round class A; Gerald Taylor, Boonville, Ind., high man standard round class B.

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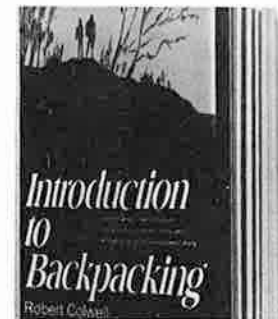
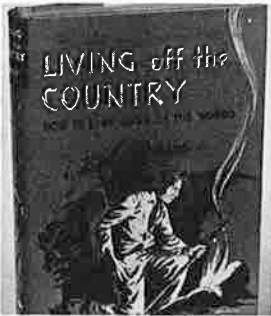
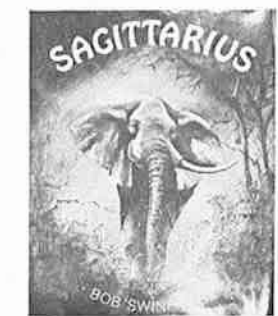
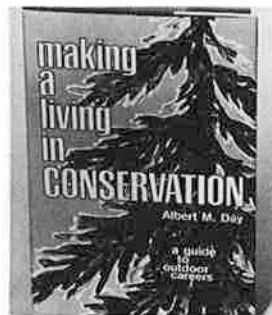
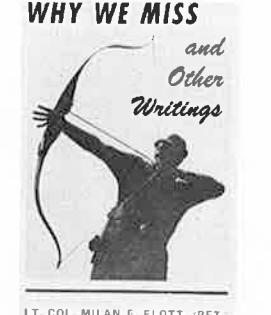
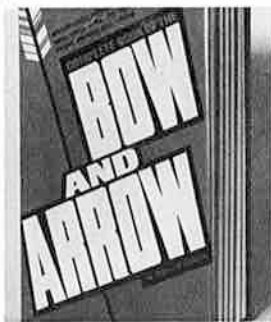
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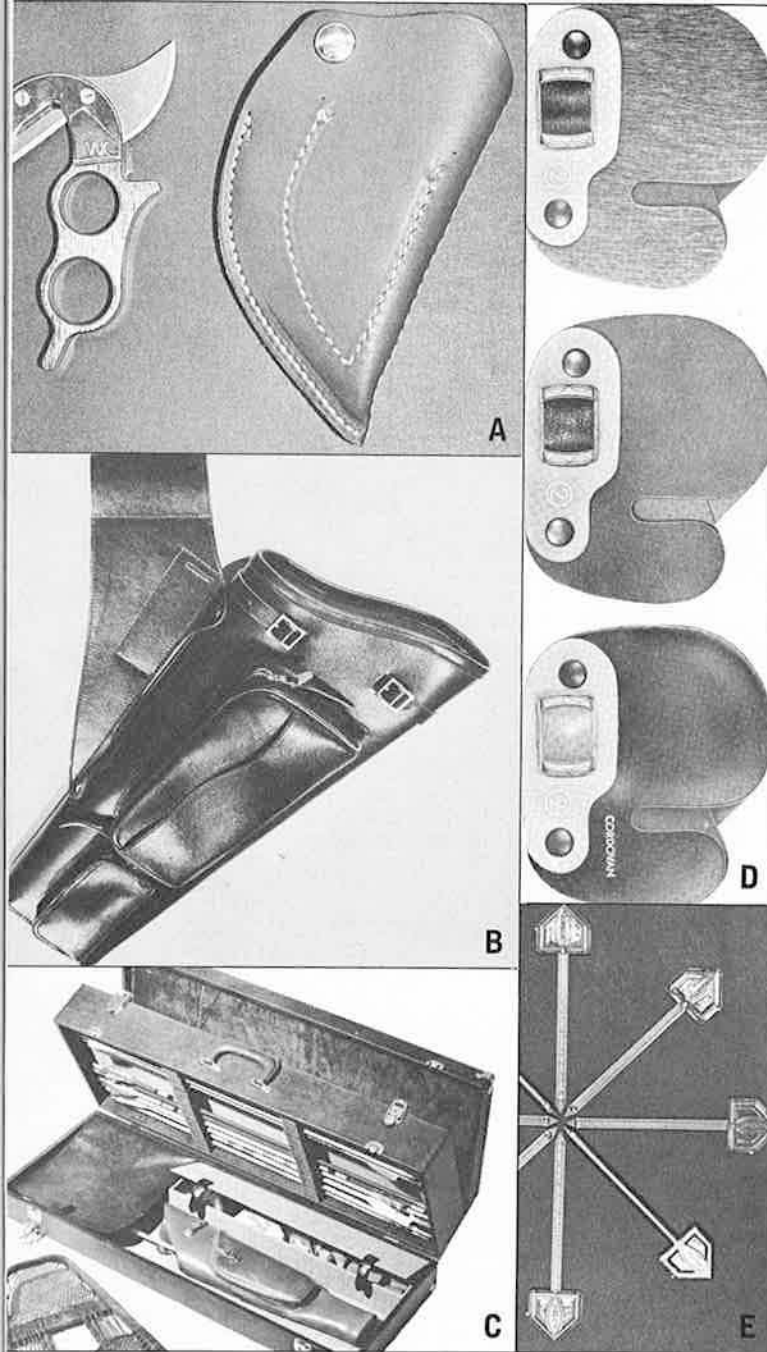
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Match-alls	dozen	Blue	R-handed			2018	
W/O points	dozen	Pink				2020	
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	dz.			inches	lbs.	\$.	
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Full length	dozen	Blue	R-handed			1716	
	dozen	Pink				1816	
	dozen	Yellow				1916	
	dz.			inches	lbs.	\$.	
	dz.			inches	lbs.	\$.	
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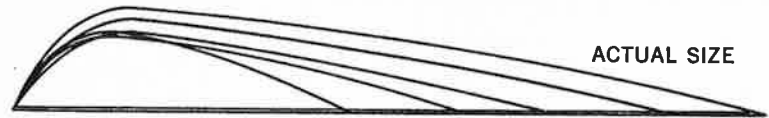
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PRO-FLETCH



PF180	PF230	PF260	PF320	PF400
\$5.00	\$5.00	\$5.25	\$5.25	\$5.50

ALSO AVAILABLE PF500 HUNTING VANE 5" LONG \$5.50

- MORE ECONOMICAL THAN ANY OTHER FLETCHING • CRITICAL BOW SET-UP NOT REQUIRED • FASTER ARROW VELOCITY • FANTASTIC FOR TARGET-FIELD-HUNTING • NOT AFFECTED BY HOT OR COLD TEMP • TERRIFIC FOR INDOOR SHOOTING • WILL OUT LAST ANY FLETCHING • FEATHER FLEXIBILITY • PLASTIC DURABILITY • EASY INSTALLATION • COMPLETELY WATERPROOF


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Once used you won't hunt again without it!

The Potawatomi Bow Hanger lets you remain warm and alert while your bow, with arrow nocked, is ready to remove instantly and quietly without startling game. Potawatomi Bow Hanger's 5' belt straps tree trunks or limbs up to 18" in diameter and can be carried in your pocket. *Another fine archery product from the makers of the famous Potawatomi Bow Square and "Kiss 'N Peep" Gage.* Available at most archery shops or write direct for more details.

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on the market

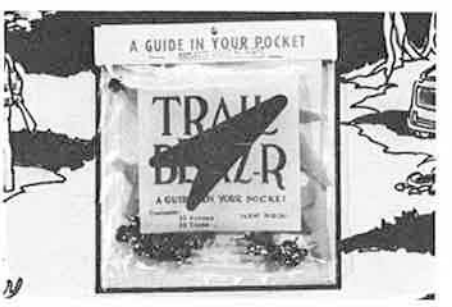
WRISTSCOPE LEAVES HANDS FREE



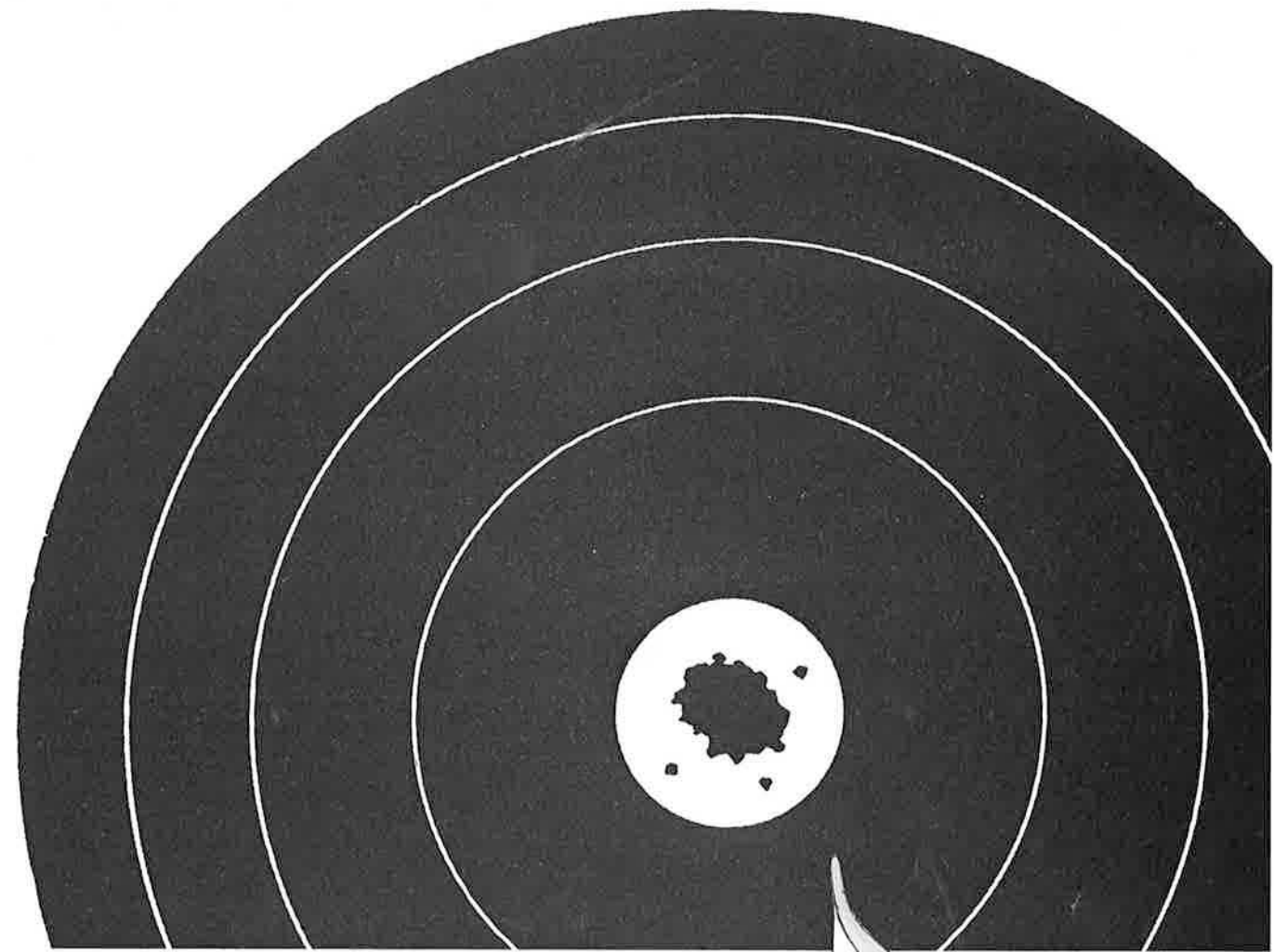
Like wearing a second watch, the Wristscope is out of the way, can't be dropped, yet is ready for quick use. Smaller than a pack of cigarettes, the magnifying system gives a big 210-foot field of view at 500 yards. Six-power prismatic, focusing eyepiece for 10 feet to infinity, anti-reflectance coated, weighs 3½ ounces. From Ranging, Inc., Dept. AW, Box 9106, Rochester, New York 14625. Retail for \$15.95.

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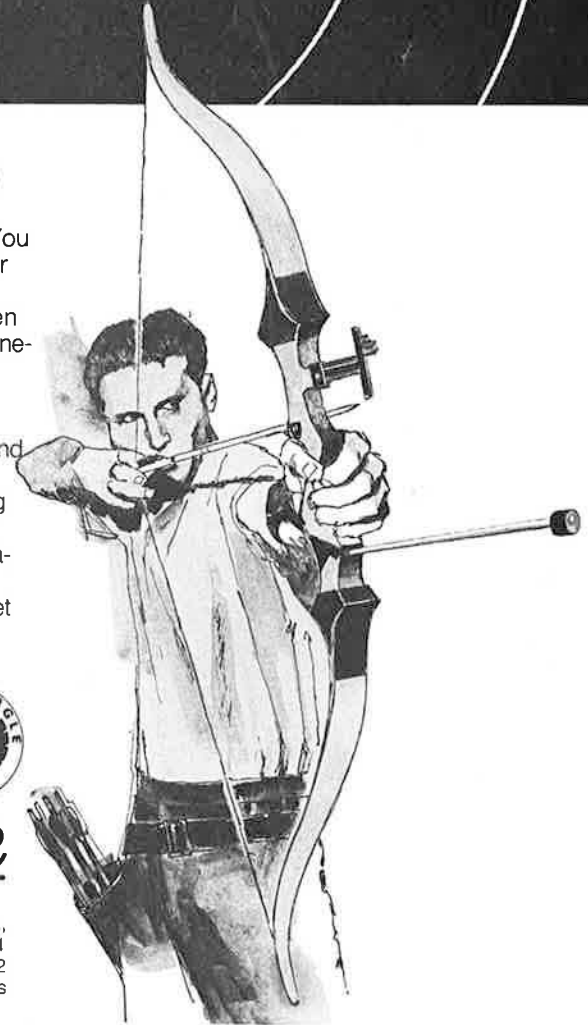
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Ready To Hunt In The Rain?

by Bob Skiera, Tech Staff

WHY HUNT IN THE RAIN at all? For several good reasons. One is the necessity of making use of committed time. You've planned all year to go hunting, you've traveled 300 miles to prime deer country, and now it rains. Being equipped with proper knowledge, you can turn the adversity of rain into an advantage.

In addition, by hunting in the rain you'll have less competition from other hunters. The woods are quiet, as the rain deadens sound, and you are able to stalk closer to game because of the wet foliage. The deer and other game are also concentrated in areas of heavy cover and can be approached from several directions because of the deadening of wind and sound. Game is not as alert in the rain. Deer, for instance, tend to turn ears down, like a mule, severely dampening their hearing. The second best sense of warning — scenting — has also been cut back.

But now, before you get all excited about going out and catching pneumonia, there are a few problems inherent in this type of hunting. The most obvious is the drop in arrow flight. Wet feathers weigh down the arrow so that your normal flat shooting 25-yard shot will now hit low between a deer's legs. Simple solution: Before departing on a wet weather hunt, waterproof your feathers with the old standard Fletch-Tite waterproofing, or Bohning Dri-Tite, or use a good quality hair spray.

We might add here that, if you anticipate hunting in the rain, double tack fletching with the old glue tube by dropping an extra drop at the base of the feather on the shaft, at the end of the feather on the shaft, and three or four dots alongside the fletching. Reason being that glue on the fletching may be slightly crystallized from age and the slightest bit of dampness on the base of the vein may be enough to pop the feather off.

A recent wrinkle to solve wet weather fletching problems is the soft plastic hunting vanes as made by Deer-flight or Precision Shooting Equipment. They take a little extra effort to set up, but the soft plastic vane sets up a lot easier than the old stiff plastic that didn't work.

Of course, the preferred material for the shaft itself would be fiberglass or aluminum. If you do hunt with wood, be sure the shafts are completely coated with lacquer so they won't warp in the quiver or on the bow itself when in the arrow holder.

Care of arrows also affects arrow drop in flight. For instance, an old trick is to invert the bow quiver and put

a plastic bag over the feathers to keep dry. Inverted simply because otherwise the rain runs down shafts and ends in the bag. Better than a plastic bag is a piece of camo cloth lined with plastic made into a bag — keeps dry, quiet, and has enough weight to stay on and not blow off or get pulled off at the slightest twig tug.

Bag should be loose enough that you can extract an arrow for that second shot if needed. Robin Hood sells a fletching bonnet that looks good.

A couple of dandy back quivers that protect the fletching from the weather are the Cat-quiver and the St. Charles. They'll carry a full arsenal of arrows and keep fletching dry. It is still a good idea, for added insurance, to spray waterproofing oil or hair spray on fletchings so they won't absorb moisture under high humidity.

When practicing or hunting in the rain, be sure to take particular care of your fletching. Do not pull arrows out by grabbing the fletching. When you're done practicing or hunting shake out the feather with a snap action. With wood arrows, stand them upright so they don't take a set; dry them slowly, as far from heat as possible. In a camp situation, best way is upright near the ceiling: near floor may be too damp and feathers won't dry.

Spin dry feathers, rotating arrow in your fingers. If the feathers have taken a distorted set from being in a back quiver or thrown in a corner while damp, you can restore the fletching by rotating them in and out of the steam vapor of a kettle. Do not overheat the feathers; the idea is to simply help them return to natural shape.

A wet arrow rest can often cause as many problems as a wet arrow. If you enjoy shooting with a feather or rug type rest, be sure to waterproof that rest with the same material used on fletching, otherwise it will have a tendency to lay down when it gets wet and also cause more resistance against the arrow as it passes over. For best results, treat the rest every time you go out in rain.

We highly recommend the use of some of the new nylon or plastic rests, such as the Hoyt Pro Flex-Rest or the Herters nylon brush rest. These nylon finger-type rests are not affected by weather or water conditions, and will give the cleanest arrow flight because of the least amount of resistance against wet arrow shaft and fletching.

Camo tapes and paint ideal

Don't forget the treatment of the business end. One of the first things to corrode rapidly in wet weather is the razor sharp edge. We, therefore, recommend a treatment of light oil or vaseline. It will keep heads sharp; no need to resharpen them every day of wet weather.

For those of you who hunt with a camouflage bow sock, this material for wet weather hunting should be wound tightly on bow limbs and sprayed with a good grade of waterproofing spray in the wound position. A wet bow sock will have a dramatic effect on deadening of cast. Usually when hunting under rainy, overcast skies, we recommend that the bow sock be removed — reflection of bow is at a minimum now. If you want camouflage, the waterproof tapes and camo paint would be ideal wet weather aids. In most cases, water on the limbs won't affect cast.

Tabs and gloves can throw you off. When they get wet they have a tendency to form a deep groove and grip the string, making a smooth release difficult. This wet tab and glove, coupled with swollen wet fingers, makes a smooth release difficult — and yes, your hands do swell if they're wet. Trick is to have a side pocket where you can keep your shooting hand as dry as possible. Or use a plastic tab like the Saunders model.

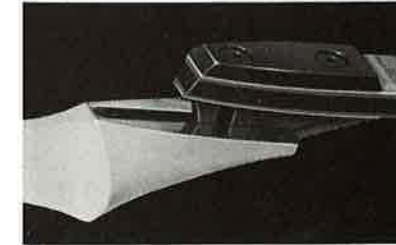
So much for the bow. For yourself, number one is footgear. It is extremely difficult to be comfortable and enthusiastic when your feet are wet and soggy. So you should have a good pair of sealed leather boots like Brownings' Weatherproof or a light rubber boot. The only

(Turn back to page 45)



The Wing Competition II

Unique Wing SlimLine design combines with the revolutionary Wing Slide-Loc® Coupling for the ultimate bow!



The Competition II for 1972 is, without a doubt, the most exciting bow innovation in years!

All the advantages of Wing SlimLine design — torque-free shooting, speed with stability — make Competition II bows well ahead of their time. But, add the extra-easy, extra-quick and convenient Wing Slide-Loc coupling, and you've got the ultimate in bow design!

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The limbs snap into place — no screws, bolts or pins.

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The Competition II Target bow. The Competition II Hunting bow. Both, the ultimate in bow manufacturing!

For additional information on the exciting Competition II, check with your Wing authorized pro shop or Wing Archery Company for the recently released Wing SlimLine brochure.



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