

THE
ARCHER'S
MAGAZINE

AUGUST 1969

50c

ARCHERY world

**World Championships
August 13-19 at
Valley Forge, Pa.**

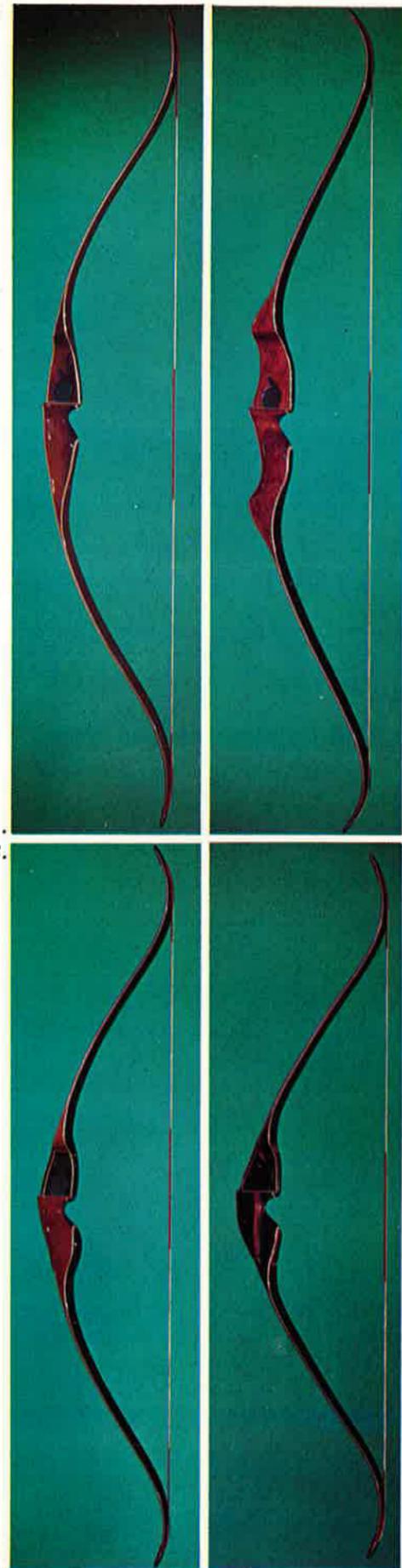
**August IS
National Archery Month**

**Tuning Your Bow
By An Expert,
Max Hamilton**

**How To Score
Your Trophy**



OFFICIAL PUBLICATION OF THE NATIONAL ARCHERY ASSOCIATION OF THE UNITED STATES



For big-game killing, balance, power and swiftness, shoot improved trophy-proved Indian Hunting Bows

It takes both professional archers and engineers to improve the Pope-Young record-making quality in Indian's hunting bows. Archers design the bows and engineers specify the materials and construction. The result—the most advanced hunting bow design and construction available.

Hold the new narrow handle and notice the natural comfort-fit. Improved hunting bow stability makes your shots count. Nearly vibrationless limbs due to proportioned stresses and quick dampening action gives you big-game hunting accuracy. Run your hand across Indian's smooth recurve design. It assures you of reserve killing power.

Improved hunting bows, like all Indian products, are backed by a LIFETIME* Guarantee. It's your assurance of expert design and construction. For record-breaking big-game shooting, see your Indian dealer today.

1. SAVAGE 2. DEERSLAYER 3. MOHAWK 4. STALKER

***Indian LIFETIME Guarantee**

Every Indian bow is guaranteed for its LIFETIME against defects in materials and workmanship. Guarantee does not cover normal wear, accidents or result of misuse or abuse. Void if bow is altered or worked on by any other than the manufacturer.



INDIAN ARCHERY

PRODUCT OF INDIAN INDUSTRIES, INC., EVANSVILLE, INDIANA 47717



If the Sheriff of Nottingham had used arrows with Micro-Flite Shafts, there might never have been a legend of Robin Hood.

History has it that the Sheriff of Nottingham was no match for Robin Hood and his Merry Men. But alas, things might have been different if the Sheriff's men had been using arrows with perfectly straight, practically indestructible Micro-Flite fiberglass shafts.

For Micro-Flite shafts are made abso-

lutely straight for greater accuracy — and they stay straight regardless of the weather or hard use. Tests have shown they survive the kinds of impact that usually put modern arrow shaft materials out of commission, because Micro-Flite shafts are stronger and more resilient.

Think about it. If Micro-Flite shafts

can give a shooter an edge with today's sophisticated equipment, think what they could have done for the wicked Sheriff of Nottingham.

The next time you buy arrows, look for the Micro-Flite name on the shafts. You may not change the course of history, but you'll sure shoot better.

WRITE FOR FREE BROCHURE

Complete details about Micro-Flite tubular fiberglass shafts and components.

Browning Manufacturing Co., Dept. M10, Route #1, Morgan, Utah 84050

MICRO-FLITE



JOHN W. LANIGAN
Publisher-Editor



EDITORIAL STAFF

Camping & Trailing Editor
JUDD COONEY

Hunting Editor
H. R. "DUTCH" WAMBOLD

NAA Editor
BILL STUMP

Outdoor Editor
RUSSELL TINSLEY

PAA Editor
DAVE STAPLES

Technical Editor
TOM JENNINGS

Associate Technical Editor
LOVELL TICE

Womans Editor
RUTH CHRISTENSON

Circulation Manager
SUSAN ROHRBACH

Cover Photo by
C. R. LEARN

ARCHERY WORLD
The Archery Magazine
by Archers for Archers

ARCHERY world

Contents

FEATURES

Tanglehead	Marion R. James	36
Tune Your Bow	Max Hamilton	40
Mental Discipline	Dave Keaggy, Sr.	42

REGULAR FEATURES

Mail Quiver	Our Readers	6
Tackle Topics	Tom Jennings	8
The Archery Clinic	Jack Witt	10
Bowhunting With The Dutchman	H. R. Wambold	12
Tinsley Talks	Russell Tinsley	16
National Archery Association	Bill Stump	20
Camping & Trailing	Judd Cooney	28
The Professionals	Dave Staples	32
New Products	Staff	52
Trading Post	Classified	58
Book Shelf	Archery World	51

Published monthly by Archery Associates, Inc., P. O. Box 124, Boyertown, Pa. 19512. Subscription price: \$5.00 per year in the United States and \$7.00 per year outside of the United States. Editorial office at P. O. Box 124, Boyertown, Pa. 19512. Second class postage paid at Boyertown, Pa. 19512. Neither text nor illustrations may be quoted or used without permission of the publishers. Area Code 215 - 845-2166. Plates and material shipped other than by mail should be addressed to Boyertown Publishing Co., 48 S. Reading Ave., Boyertown, Pa. 19512.

(Copyright 1969 by Archery Associates, Inc.)

SIX REASONS

WHY MORE PEOPLE BUY FROM
THE WORLD'S LARGEST ARCHERY SUPPLIER.

- ① **MONEY:** Prices are lowest obtainable. This saves **THEM** money.
- ② **MONEY:** All Orders are shipped the Same Day Received. No delay saves **THEM** money.
- ③ **MONEY:** Only Top Name Brands are sold. Bear, Easton, Wing, Root, Micro-flite, Pearson, King, Saunders, etc. Avoiding off-brands saves **THEM** money.
- ④ **MONEY:** Only Number-One Grade merchandise is sold—No Seconds. Buying Top Quality at lowest prices saves **THEM** money.
- ⑤ **MONEY:** We have been serving Archers - Bowhunters - Dealers, in 10 different countries over 20 years—Our experience saves **THEM** money.
- ⑥ **MONEY:** We have the Largest Archery Warehouse featuring conveyors and electronic equipment, which allows faster order shipment: This saves **THEM** money.

Shouldn't You Be One Of Them?



Phone!
Wire!
Write!

FOR FREE
FULLY
ILLUSTRATED
CATALOG
TODAY

GUARANTEED SAME-DAY SERVICE



Dept. AW

GRAND LEDGE, MICHIGAN 48837

Phone 517-627-2003



Editor's Mail Quiver

Our Readers Speak

Dear Editor:

The letter of Mr. Alex. J. Barter to the Editor's Mail Quiver in the November 1968 issue of the Archery World Magazine interested me very much, not so much for the matter of "identical names", but because he mentions that he is the Editor of the SHOOTING LINES Magazine in Australia. I am contemplating on sending in a subscription to this magazine and was wondering if you could supply me with its address and subscription rates.

Would appreciate it very much if you could likewise furnish me with the names and addresses of other archery publications in English that you may know of, aside from the Bow and Arrow, Archery Magazine, and the British Archer.

Thank you very much for your kind attention and may I hear from you shortly.

Very truly yours,
Adolfo L. Ledesma
Makati Commercial Center
P.O. Box 764
Makati, Rizal, D-708
Philippines

Ed Note: As far as we know that's all of them, except for local club newsletters (of which there are thousands).

Dear Editor:

As a regular reader of your magazine, I noticed in the March issue a story on Junior Champion Chuck McCormick. Reading through this story I noticed a statement that Chuck was con-

sidered the "best young archer in the world". Many archers in Australia do not agree, we consider our Junior Champion GRAEME GWIN is just a little better. Graemes' fantastic run of records and wins are as follows.

VICTORIAN STATE TITLES

1964 1st Target
1st Field
1965 1st Target
1st Field
1966 1st Target
1st Field
1967 1st Target
1st Field
1968 1st Target
1st Field

AUSTRALIAN NATIONAL TITLES

1965 1st Target
1st Field
1st Flight
1966 2nd Target
1st Field
1967 1st Target
1968 1st Target

+1967 & 68 winner of the international Silver Leprechaun Shoot, 1968 score was only 10 points below the winning male score, his Double American score was 1556 (776, 780)

+GRAEMES' HIGHEST SCORES
Ladies F.I.T.A. 1206
Senior F.I.T.A. 1137
American 792
American (D) 1556

Yours faithfully
Graham Bishop
Moorabbin Archery Club

Ed. Note: From the records, we'd say they are both "great."

Dear Editor:

I have sent you, through the Australian Money Order Dept. a two year subscription to ARCHERY WORLD. (W000956) I would like to say here how much I like your publication, but also that I think you give far too much coverage to deer killing, and think that by doing so archery loses many ladies who otherwise might have taken up the sport. Not that I decry "Bow-Hunting", far from it, but I am of the opinion that to hunt is not necessarily to wound or kill. In my early manhood, I was an avid and merciless Kangaroo hunter with the rifle, and shot thousands of the unfortunate and lovable animals for the profit of their hides. But to read each month of a deer being killed just for trophies becomes rather dull, notwithstanding the undoubted skill of the archer, and the truly wonderful scenery of the area where they hunt.

To put it bluntly, I would rather hunt with a camera, than with a rifle, and I think a lot of wouldbe Lady Archers will agree with me.

Yours faithfully,
Bill McGauran

Ed. Note: Our mail would indicate there are two schools of thought, here. All we can say is, "Each to his (or her) own." Interestingly, it is estimated that over one million Americans "hunt" with the bow and arrow.



WHY BE LEFT OUT OF THE PICTURE-- USE HERTER'S PERFECTION MODEL SITKA BOWS

- ◎ **ARCHERS** You get the finest in design, workmanship and materials at a price you can afford to pay.
- ◎ **GUARANTEED** No bows at any price made of more expensive materials, better workmanship or with better performance in any respect.
- ◎ **WINNERS** In the 1964, 66 & 67 National American Bowhunter Big Buck Contest and 1968 First Place State Winners in Minn., Wisc., Iowa and Kans. all used Herter's Bows.

Five new Sitkas in our famous perfection quality offering a length for every archer's demands. New improved weight forward stabilized handle risers offer the utmost in shooting comfort and accuracy. 75, 72, 66, 62, 58 inch lengths available.

Send \$1.00 for huge 600 page catalog of Bows, Arrows, Hunting and Fishing Equipment. Guaranteed prices far lower than you are now paying.

Address Dept. 8 C 2

BUY DIRECT
FROM THE
MANUFACTURER
AND SAVE ON
HUNDREDS OF
ARCHERY ITEMS.

STARTING AT
ONLY

\$42⁵⁰

F.O.B. WASECA

HERTER'S INC. SINCE 1893 WASECA, MINN. 56093



TACKLE TOPICS

By Tom Jennings

Questions will be answered by Tom if sent to him at 10945 Burbank Blvd., N. Hollywood, Calif. 91601

Dear Tom:

Thank you for your kind advice in the October 1968 issue of Archery World. I am still looking for enough information to build a modern composite long bow for hunting.

I entirely agree with Bob Swinehart (in a letter from him) that the modern composite longbow is not so critical to shoot as the recurved in spite of the latter's greater cast.

Question 1 — What decides a bow's cast the most . . . The composite laminations or the recurved limbs?

Question 2 — How many laminations are normally used in a good bow?

Question 3 — What decides the pull weight, the thickness of the wood laminations or the thickness of the fiberglass?

Question 4 — Could you give me a rough draft on how thick and wide to make a simple straight ended composite laminated long bow? Length 5'8" or 5'10". Say about 40#.

With kind regards
Flemming Dahl
(Bowhunter from Denmark)

Dear Flemming:

Answer to question #1 — The development of fiberglass and its use in bow construction did more for the performance of the bow than any other single factor in bow construction. I would have to say that the composite of glass and wood does more for cast than the recurve limbs. The recurve limb design just allows you to store a little more energy as you draw your bow, thus giving you more cast.

Answer to question #2—Most bows are made with two core

laminations of maple and a facing and a backing of fiberglass. I have made bows of more core laminations but found no advantage.

Answer to question #3—Four factors decide the draw weight of a bow. A — Length and design of limb. B — Width of limb. C — Core thickness. D — Fibreglass thickness. There are many variables within these four basic factors that will affect weight. Once a given design of limb is decided on, both the core and the glass thickness is varied to achieve a given weight bow. In production bows it is mostly the core that is changed to vary the weight of the bow. However, for ultimate performance for any bow limb design there is a perfect amount of glass and core combination. Mostly in the past this combination was found by "cut and try" as well as the basic limb design. Just recently, a man named Lovell Tice of Huntsville, Alabama designed a bow, limb, core thickness, width, taper, etc., using a computer. To my knowledge this is the first time modern science has been used to completely design a limb. It shoots real fast.

Answer to question #4 — You can see from the above answer that it would be difficult to give you the information you need to build your composite straight ended bow. However, I can give you several suggestions that might help. A method used by many old time bowyers when making a composite straight ended bow is as follows . . . Glue up a billet using the back glass (side away from you when shooting a bow) and the two core lams with handle section LEAVING OFF

THE FACE GLASS (side facing you when shooting the bow). Rough shape the limbs. Then you can string and tiller the bow (balance the bend and shape of the bend in the limbs) by taking material off the belly side of the bow limb. (same as face of the bow). After the tillering process add the face glass. On a 40# bow the facing using .040 glass will add about 20 pounds. This means your rough billet without face glass should draw about 20 pounds. This is only rough and you might not come out right on the nose but it sure will keep you in the "ball park" as we say here in the U. S.

Dear Tom:

You are always saying a broadhead should be razor sharp. Right? OK, I don't think the steel in any of the broadheads on the market is good enough steel to get it razor sharp! I have tried to sharpen at least 10 of the top name brands and I sure would hate to shave with one of them. What's with this "razor sharp" stuff anyhow?

Yours for shaper broadheads
Larry Martin
No. Hollywood, Calif.

Dear Larry:

Sharpness is a relative thing. Razor sharp to most people is sharp enough to shave dry hair off your arm. To this point on the sharpness scale most all the top brand broadheads can be sharpened. About a month ago I recieved in the mail a letter with a broadhead carefully wrapped, with "Dangerous!! Very sharp" written all over it. It was one of the popular brand broadheads and IT WAS SHARP!! In fact

after a month of demonstrating the hair-cutting ability of this broadhead it will still cut hair. The man sending the letter has developed a sharpening device that really does a job. I will be receiving mine soon and I will lay you "8 to 5" that I can sharpen a broadhead and shave with it!!!! (My face that is).

Dear Tom:

I find myself getting way over stocked with bows since I never trade in an old bow when I buy a new one.

Question #1—Does a modern laminated bow deteriorate with age so that it would become unsafe to shoot even though it is seldom or never shot?

Question #2 — Does age affect a solid glass bow?

Question #3 — I have always had the opinion that if two bows are exactly alike except in draw weight the light weight bow would give longer service. Is this correct?

Thanks
Juan Wiggins
Wilmer, Ala.

Dear Juan:

Answer to #1 — A modern laminated bow with a plastic finish should not deteriorate with age. I have some early glass faced and backed bows I built 20 years ago and they will still shoot. Glass and finish are both better today so bows taken care of should last at least 25 years and shoot as good as new.

Answer to #2 — Some of the real cheap solid glass bows were made of poor grade glass and plastic and some of them did kind of go to pieces. However, I see no reason for a good solid fibreglass bow to deteriorate with time if it is kept at a reasonable even temperature. Very high temperature (over 130 degrees) will tend to break down some types of plastic.

Answer to #3 — Yes, normally

the stresses in the lighter weight bow (assuming they are of exact design and construction) will shoot more times. However, bows, even of the same make and design, vary greatly and many times the heavier bow will shoot more times than the light bow. In other words, just because a bow is light weight it doesn't always mean that it will outlast a bow of heavier weight.

Dear Mr. Jennings:

I have a couple of questions that should be of benefit to many other archers as well as myself. The more I read about this question the more I get confused.

Question #1 — I recently purchased a name brand bow. In their catalog they say that, "The string supplied with your bow is exactly the right size to give your bow best performance." Now, the string height measured from the cut in the handle is exactly 9". However, I recently read that this particular bow usually works best when the brace height is around 7½". Please help me!

Question #2 — If I do want the lower brace height how do I know what length my new string should be?

I hope you could publish or send me answers to my questions. Good luck and good hunting.

Sincerely Yours
Dick Rankin
Traverse City, Mich.

Dear Dick:

While I am a big believer in asking the man that makes a bow just how long the string should be, the bow in question here is the exception. Why the company sends such short strings with their bows I have never been able to find out. You cannot do the bow any harm by using a longer string and I sure would give it a try. I think the bow will shoot better at 7½"

string height. However, string height in a very personal thing and the proof will be in trying a lower string height.

Answer to #2 — Most archery stores stock strings in all lengths. Hop down to the local store and try several till you get the right size. Frakly, I would ask for a string to fit the length marked on your bow. I think you will find it will string your bow very close to 7½". If it doesn't, try one an inch longer. This should just about do it.

Do You Want To Sell A Product, A Service, An Idea?

Use the Trading Post to get people-to-people ACTION

30¢ per Word for Selling Ads that PAY-OFF

JENNINGS COMPOUND BOW



BILL SCHARCH WINS CALIFORNIA STATE BROAD-HEAD FLIGHT SHOOT IN THE 50# CLASS. Bill went on to win the NATIONAL TITLE with an amazing 324 yds. with his 50# JENNINGS COMPOUND BOW.

JENNINGS COMPOUND BOWS also swept the 65# and the unlimited divisions in both the CALIFORNIA STATE and the NATIONAL in 1967, out shooting bows with nearly twice the draw weight.

THESE COMPOUND BOWS WERE NOT SPECIAL FLIGHT bows but the very same bow you will receive if you buy a JENNINGS COMPOUND BOW.

OUR UNCONDITIONAL GUARANTEE

THE JENNINGS COMPOUND BOW WILL SHOOT FASTER, FARTHER AND WITH A FLATTER TRAJECTORY THAN ANY RECURVE BOW TEN POUNDS HEAVIER OR WE WILL CHEERFULLY REFUND YOUR MONEY.

WRITE NOW for complete details
JENNINGS COMPOUND BOW DIVISION
S & J ARCHERY SALES
10945 BURBANK BLVD. DEPT A
NORTH HOLLYWOOD, CALIF. 91601



**THE
ARCHERY
CLINIC**

By Jack Witt

HOW ARE THEY FLYING?

Easton has a chart for the spine of arrows that makes it easy for any archer to see exactly what arrows he should shoot in his bow. Yet, I've seen archers buy three or four dozen arrows before they get the right arrow. Why? Well it seems that Joe Dokes shoots a certain shaft in a certain weight bow at a certain length, so that's the shaft to shoot. Then the archer runs into John Doe, and John's arrows fly good — he has the same draw and same length arrow, so he gets this shaft. He goes on and on and finally comes back to the Easton Chart. Generally, this same archer, shooting the correct shaft, has problems getting the arrow to fly without flirting. So — let's take the correct steps in getting the arrows to fly right.

Let's check your bow and see if the arrow is lined up right. Put the arrow in the bow — nock the arrow — then sit the bow in a bow rack so that the arrow isn't touching anything. Get back from the bow, on the string side, and position yourself so that the string is in the center of both the upper and lower limbs. Now while you're in this position, look at the arrow. If the tip of the arrow is about a quarter of an inch to the left of the bow string, the arrow is sitting right. If it isn't out this far, or if it is to the right of the string, then the arrow should come out more from the bow at the arrow plate. If the tip of the arrow is out farther than a quarter of an inch, then the arrow should go in towards the bow. . . (Most tournament bows today have an adjustable arrow plate — for those the adjustment is easy — for others the arrow plate will either need building out, or the window of the bow may need filing or cutting in.)

With the correct shaft for your bow, and the arrow sitting right in your bow, the arrows should fly without flirting. However, there are three reasons caused by the archer himself that can make these same arrows flirt. The biggest villain is usually the grip. For the right handed archer, if the wrist of the bow hand is in to the right, the reflex on release will throw the bow into the arrow and

the arrow will flirt. Either a high grip or heeling the bow seems to make little difference. But, if that wrist gets in to the right you're gone. You can shoot with the wrist far to the left and the arrows will fly good, the only trouble is that this becomes uncomfortable. So — get the wrist of the bow hand straight. You had better get someone to check you on this, because you probably will think the wrist is straight and it is still bent in.

The next trouble maker is the left shoulder (again right handed archer). If the shoulder of the bow arm is rolled in, the bow string will usually touch the bow arm, and often it will bang the heck out of it. The remedy is to hold the bow out towards the target — then seat the shoulder of the bow arm — this sets the shoulder back — then draw, but make sure the left shoulder is kept back and down.

Finally the release. This is usually the last thing I look for. And oddly enough the average archer looks for this the very first thing, when his arrows are flirting. For your arrows to really flirt, and it is caused by your release, then your release has to be terrible. A release that falls in this category is one that is caused by all tension being lost either before the release or at the moment of release. Keep tension in your shoulders until after the release and you can forget about the release. I get the archer down close to the target for this one. Have them draw, shut their eyes, and explode their release, letting the bow arm fly to the left (right hand archer) and the drawing hand fly back and around. In this way they can feel their shoulders working. I tell them this is exaggerated, but I want them to feel the tension in their shoulders after the arrow has gone.

As simple as this is, I'll bet the next time you go to the range you'll hear some archer say, "My arrows aren't spined right". Or they will call you over and ask you to watch their release. How are they flying for you?????

August Is National Archery Month

Dick Wilson, President of the American Archery Council has officially designated August 1969 as National Archery Month.

The purpose of the Proclamation is to call public attention to the four significant archery events which will take place in August 1969, namely:

NFAA National Championships — July 30-August 1 — Watkins Glen, New York

World Championships of Archery — August 11-20 — Valley Forge, Pa.

NAA National Championships — August 21-24 — Valley Forge, Pa.

PAA National Championships — August 22-24 — Flint, Mich.

As of this report some 25 States have endorsed this Proclamation and declared August as Archery Month in their State.

Through its member-organizations — AIAA, ALOA, AMO, NAA, NFAA, and PAA — The American Archery Council has informed all archers of this effort. Individual members have contacted both local and national officials in the interest of promoting archery.

The well-known cartoonist, Walt Ditzen, will do two special archery strips featuring National Archery Month in August and September.

The National Field Archery Association has been instrumental in introducing legislation to Congress to have the last week of August designated as National Archery Week. Senator Barry Goldwater presented this Bill and is quite hopeful of its passage.

If the Bill is passed it simply means that we will have both State and National recognition of the sport of Archery during August. A great accomplishment.

In the interests of promoting National Archery Week (August 26 to September 1, 1969) the N.F.A.A. plans to conduct a program of "Beat the Champ." Funds derived from this program will be used for the NFAA Youth Scholarship Program for 1969-70.

NFAA Promotes Week

of

August 26 - September 1, 1969

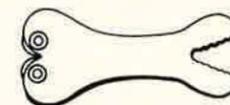
as

National Archery Week

As we went to press we learned that Senator Barry Goldwater was sponsoring a bill to provide this fine recognition of a great sport. Let's all get behind the NFAA and the AAC and promote the shooting of the bow and arrow in August.

broadheads sharp?

... with KEEN-KILL,
you KNOW they are!

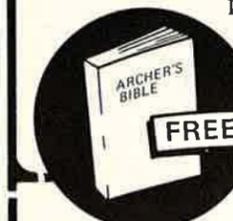


Just stroke the length of your broadhead with KEEN-KILL's super-hard cutting wheels, and you have a "hollow-ground", razor-sharp edge that actually shaves hair! And, exclusive extractor end easily pries arrows out of trees. KEEN-KILL takes less room than many pocket knives.

The price is
only \$1.89!



FREE with coupon below



Kittredge Bow Hut, P. O. Box 598 R,
Mammoth Lakes, Calif. 93546

Please rush me KEEN-KILLS. I enclose check or money order of \$1.89 for each KEEN-KILL plus 25¢ for postage and handling, and I get my ARCHER'S BIBLE with this order!
 Please send me free ARCHER'S BIBLE only. I enclose 25¢ to cover postage and handling.

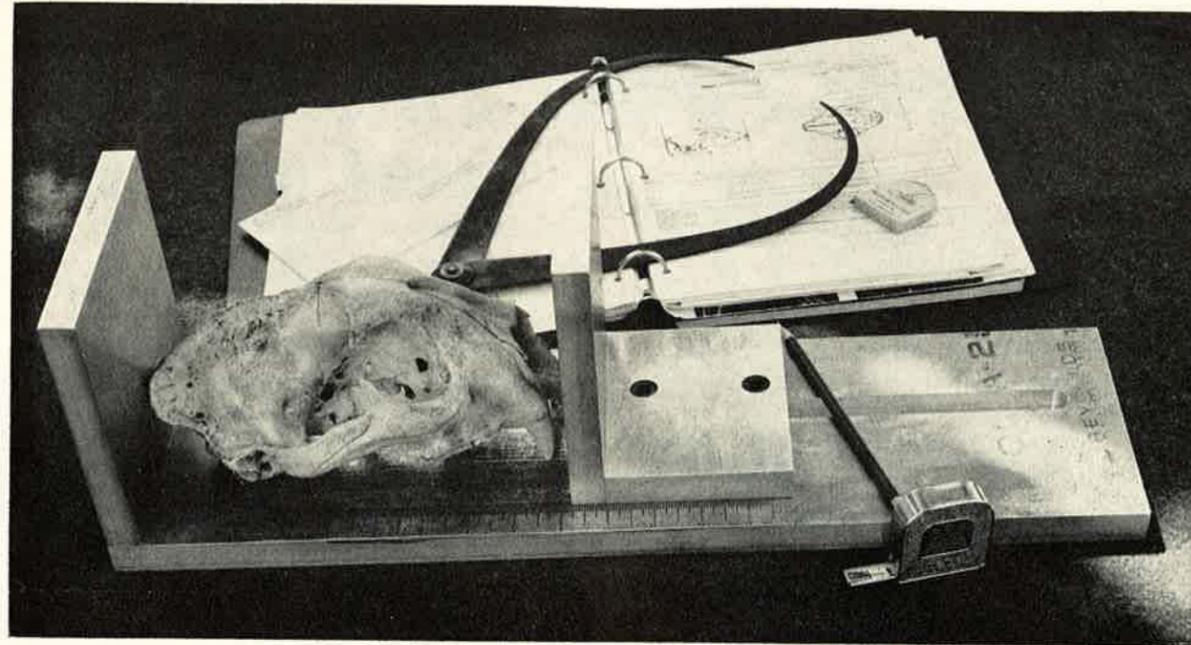
Name _____
Address _____
City _____
State _____ Zip _____



BOWHUNTING BOWHUNTING

with the Dutchman
By H.R. "Dutch" Wambold

Official Measurers must be precise!



PRECISION MEASUREMENT—Extreme accuracy is assured when using a measuring block for scoring skulls. The movable plate on the right shows an accurate reading on the engraved scale on the front of the base plate. Note the pencil line marking on skull to guide for a right angle from the long axis line for making the proper width measurement

SCORING TROPHIES

"Dutch, I think I have a new world record cougar. I've scored the skull several times, and keep getting the same total."

This bowhunter was in for a disappointment, for when I received the skull, and measured it by several different methods, I could not get better than within 3/16th of what he had scored the skull!

Nevertheless it was a very good cougar, exceeding the former world's record by 1/16th of an inch. Unfortunately, there were three other entries already scored and verified at equal and one that scored higher!

This seems to be par for the course, and many of the official Pope and Young measurers find this condition with most trophies they receive for scoring. Seldom does the bowhunter measure conservatively. If he did, a more pleasant surprise would result in the final official measurements.

The bowhunter in the above instance with his cougar skull used what is considered by most official measurers as the most reliable method of scoring skulls — a calipers. However, extreme care must be exercised to be sure that (1) the calipers used have a fine point, not a rounded end. (2) *The calipers must be held in direct line with the long axis line of the skull, and, between perpendiculars without the lower jaw, and excluding any malformations.* (3) For the measurement of width of the skull, the calipers must be held at right angles to the long axis, between perpendiculars.

I am sure that many bowhunters make their mistake by holding the calipers wrong on the width measurement. That is, not at ninety degrees opposite the long axis line.

In order to be sure that the width measurement is taken at a right angle to the long axis line, my

measuring block assures a means of marking a true right angle on the skull for a reference for properly holding calipers for a double-check.

One must remember that trophy skulls are scored in 16th inch increments. *If the actual measurement is slightly more than a 32nd of an inch over a given 16th, the next 16th is credited. Should the actual measurement be over a given 16th, but less than a 32nd of an inch over, the preceding 16th is taken for final measurement.*

With this fact in mind, one can readily see how holding the calipers in other than a right angle will in most cases result in a slightly longer measurement.

The measuring block that I designed and had made by a machinist friend, who is also an avid archer, is to my way of thinking as precise a method of scoring skulls as any I have tried.

Made of 3/4 inch aluminum plate stock, the base plate is 4 1/2 inches wide and 22 inches in length. The left end has a fixed end plate in a perfect perpendicular of 4 1/2 x 4 1/2 inches. The right end plate is movable in a machined slot, and an engraved scale on the front edge of the base plate finds the leading edge of the movable right plate reading an accurate measurement within a 32nd of an inch. The scale starts at 4 inches up to 18 inches. Longer measurements can be made in which instance a scale rule is read between end plates.

I have made one modification. A rod guide has been installed through exact center of the end

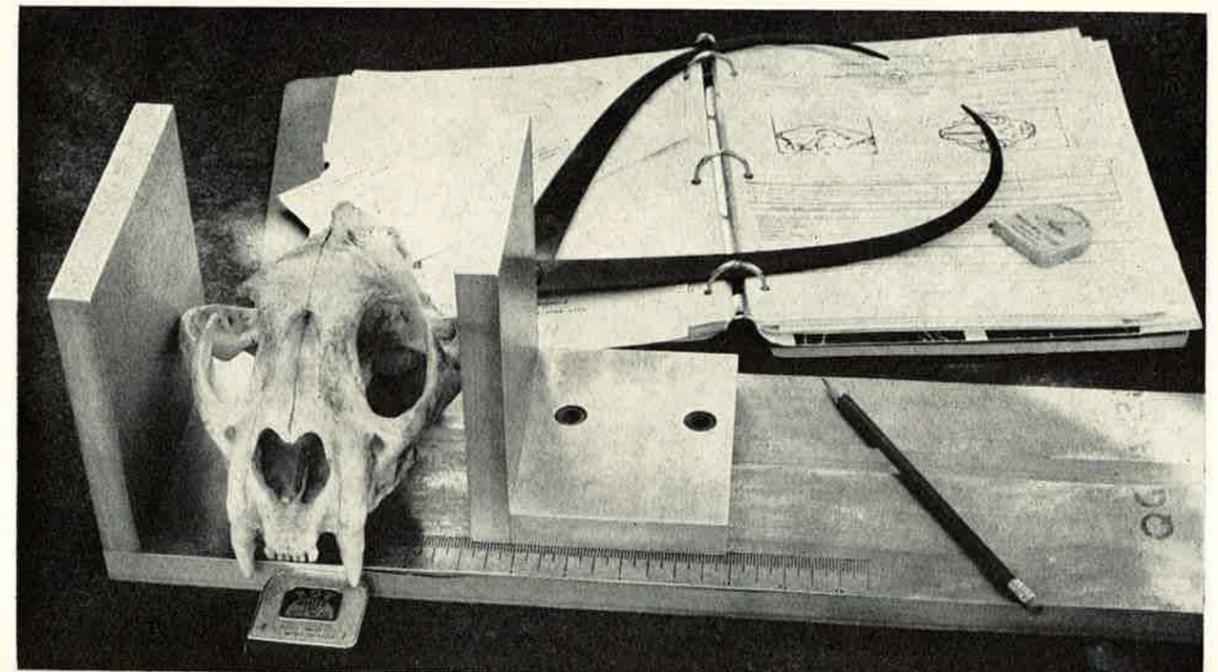
plates. This assures utmost accuracy by means of a small square to mark the exact line for width measurement, which will be at a right angle to the long axis line. The long axis line will be lined up with the rod guide when skull length is being measured.

In addition care must be taken that the upper half of the skull being measured is placed between the end plates in a level position. Here again when using calipers, care must be taken to be sure that the calipers are held parallel to the level line of the upper half of the skull.

Whitetails being the most sought big game animal by bowhunters, finds many making several common mistakes when they score their trophy antlers. (1) Beam tip is counted as a point when entering total points on each antler — *but not measured as a point.* (2) Length of all points are measured from the nearest edge of the main beam along the outer curve to tip — *not from the far edge of the main beam.* This nearest edge must follow the beam line, and is drawn with pencil from both sides of the point base. (3) Inside spread of main beams, which is included in the final score, *must be measured at right angles to the center line of the skull, at the widest point between the main beams.* (4) Length of main beam is measured from the lowest outside edge of the burr at the base of the antler, along the outer curve, *to the most distant point of what is the main beam.*

Most bowhunters go wrong when they measure main beam length. Using a quarter-inch tape when

DOUBLE CHECK—Width measurements of a cougar skull must be at right angles to the long axis line of the skull which can plainly be seen





ACCURATE BUT TRICKY—A good grade of outside callipers with inward sweep ends that come to a needle point will measure skull lengths and widths accurately if held in proper alignment

trying to follow the outer curve of the main beam usually end with a greater measurement than actual. Shifting the tape to follow the curve seldom remains at the same place. By using a fine steel wire, the curve can be followed without chance of slipping. The wire is then held on a tape that is opened and fastened to the edge of a table, and an accurate reading results.

Seldom will the bowhunter have the correct inside spread between main beams. Why? Because no regard is paid to the fact that this measurement must be at right angles to the center line of the skull. No attention is paid to this stipulation, and it is common to find the inside spread measured with the tape held at a hard cant in order to get the largest total measurement!

Many antlers pose the question as to which is the main beam and which is a point off the main beam? Many total beam lengths are wrong in such cases where the point next to the beam tip is used for the supposedly most distant point of the main beam. What is the best means of determining which is the main beam? This is a tough question to answer, and each set of questionable antlers presents a different problem. However, I guide myself by the dried blood vessel lines, which will follow a given pattern on the main beam curve.

Mule deer are tricky in that the main beam is not to the highest point in most cases, but instead to the forward sweep of the first forked portion of the antlers. Typical mule deer find the highest points or second fork actually the second and third points! Again a close check of the dried blood

vessel lines will usually show which is the main beam and which is a point branch.

Caribou are the nemesis of all official measurers. The many measurements required to score a caribou are tricky. Few bowhunters bring in caribou antlers with what they feel is the right score. Most don't tackle this job. Total beam length is hard to measure due to the extreme length of the beams and the constantly curving sweep. Length and width of the brow palm, commonly called shovels, many times is measured wrong. Width is measured in a straight line from top to bottom, not with the tape canted to either side. Length is measured from the nearest edge of the main beam, along the shortest line of the outer curve to the tip. The big question here is which is considered the tip? In most cases this will be the longest point, but again the dried vessel lines will clue one as which is right.

Inside spread of the main beams is about the toughest to get right on caribou. Again this must be at right angles to the center line of the skull — at the widest point. A slight cant of the tape will result in a false reading.

The width of the top palm is taken from the rear edge of the main beam to a dip between points at the widest part of the palm.

About the toughest decision to make is what is officially a point and which is not on the palmated antlers? All points must be at least an inch in length from base line to tip. Many of the more palmated antlers will have what appears to be a double point, both of which are better than one inch in length. A careful check of the dried blood vessel lines and general formation of the palm will many times reveal that such a double point is actually only one point!

"Shoot a moose, all you got to measure is the length and width of the palms, get one with a great spread, and have the same amount of points on each side", my one bowhunting companion suggested.

True the measuring process is rather simple on a moose — the only problem is determining which are actual points, and which are not! The rules state that to be considered a point, it must be a projection of at least one inch. The length may be measured to any location, from the tip down, but — at one inch from the tip the length must exceed the breadth or base width! This discounts such rounded formations in many moose palms that are counted as points but are less than an inch in length, and, find the breadth far greater than the length.

It can easily be understood why Pope and Young stipulates that when official measuring is



TEAMWORK—Two of Pennsylvania's District Game Protectors work together measuring the main beam length of a whitetail buck entry in the state records annals. Game Department personnel are trained for measuring work and do a fine job

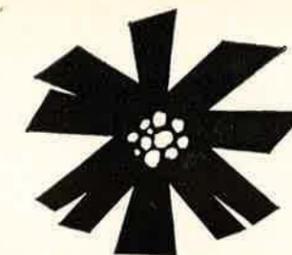
done on any trophy, it is best not to have the bowhunter who owns the trophy present. He may have scored the trophy beforehand, and will feel cheated in many instances.

I think I can speak for most of the official Pope and Young measurers when I say every effort is made on all scoring to give the bowhunter who owns the trophy the highest score officially possible under the Boone and Crockett system of measuring.

By the same token, put yourself in the place of some bowhunter who owns a world record trophy in some species. This honor is one that is hard to relinquish. To assure that individual that every possible check is made to verify the score of any contender or greater trophy, such new record trophies are re-measured by a panel of the Records Committee. This protects both the former record holder as well as the owner of what appears to be a new record trophy

I also might add that again speaking for most of the official Pope and Young measurers, the job is gratis, and finds such men vitally interested in the sport of bowhunting. A conscientious attitude, while impartial in every respect, finds a final score highly accurate when re-measured by a committee panel.

Although many times it is time consuming as well as requiring some intensive checking to be sure one is right, I enjoy measuring trophies of fellow bowhunters. Sort of puts you in the action in a small way, and, you are helping the growth of the most sporting way to hunt big game!



FRESH
OUT OF THE
SAUNDERS
Think Factory!



TREE
TOPPER

Complete except rope
\$9.95

Makes climbing up and down safe and easy. Includes five steps, capacity 250 lbs., 40 fasteners (enough for four stands) and a safety snap hook for safety rope. To install, pound in fasteners 2' and 4' from ground. With safety rope hooked to top step and both hands free, stand on bottom and install third step, etc. To change stands, leave fasteners in place, move steps.



A must for the hunt!

\$2.95



BRUSH
DEFLECTOR

BOW GADDY

Simply push into the ground. It holds the bow upright . . . for instant use. Vinyl-coated — can't mar bow. Easy to lift bow off. Works for left or right-handed archer.

98¢

Easy to install—pressure-sensitive, simply press on. Absolute minimum effect on bow action. Big enough to do the job. BRUSH DEFLECTOR enables you to stay low . . . crawl in close for a shot without snagging bow.



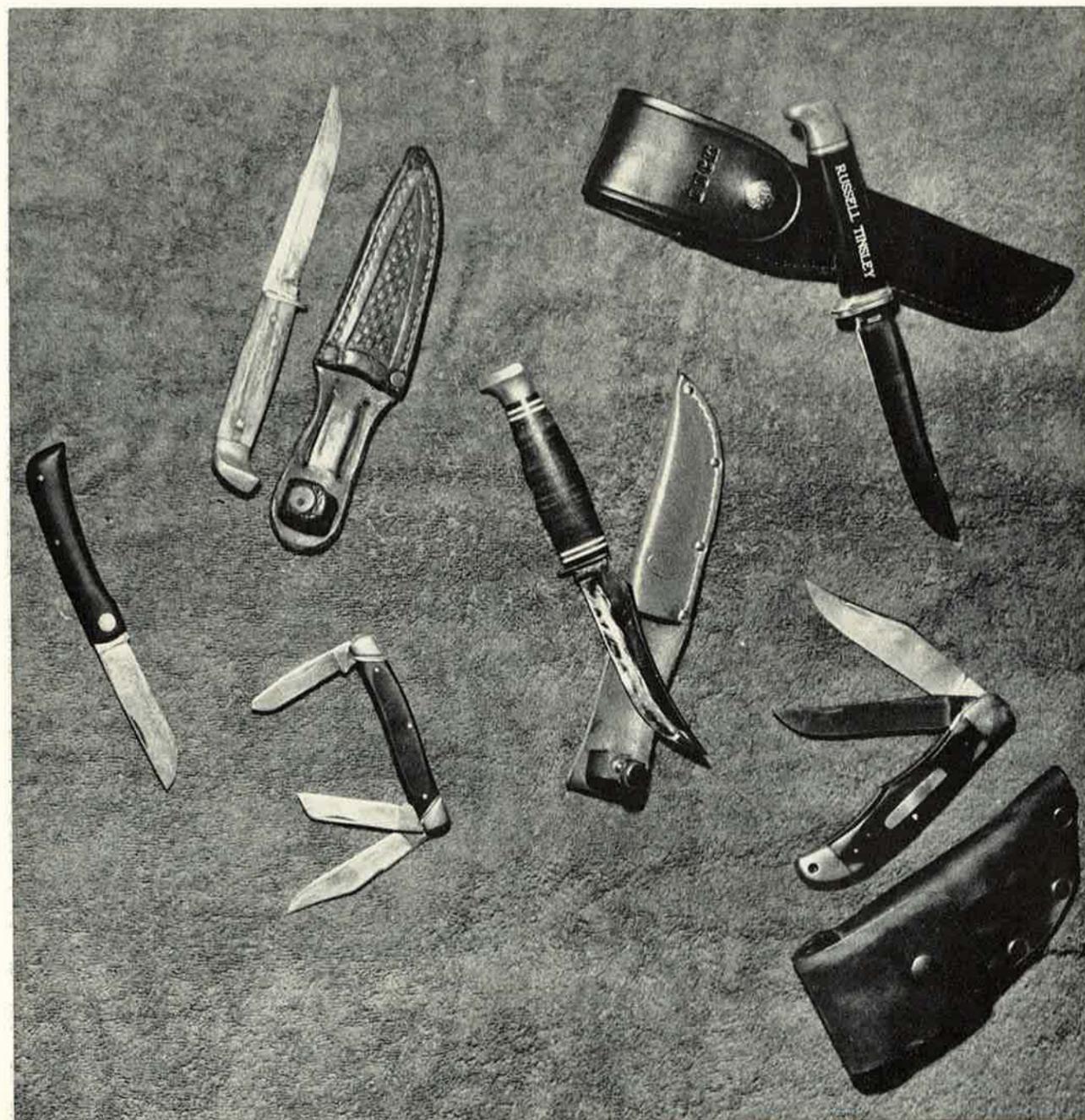
SAUNDERS ARCHERY CO.
Columbus, Nebraska 68601



TINSLEY ALKS

By Russ Tinsley

KNIVES... CAN BE YOUR BEST FRIEND



Some of the many different types of knives in Tinsley's personal collection. At far left is Russ' "favorite"

... OR YOUR WORST ENEMY

If you'd take the equipment of 100 different outdoorsmen, spread it out and inventory individual items, one common denominator would be a knife. Not necessarily the same style or size of knife, of course; because a knife not only is universal, it is highly personal. Each person carries the knife which suits his needs and whims best.

Probably a large percentage of the 100 outdoorsmen will be packing two knives, perhaps a pocketknife and a belt or sheath knife.

Actually, the idea of two knives isn't unreasonable. There is no such thing as an all-purpose knife. You might come close to it, but there will be occasions when you'll wish for a smaller knife or maybe a larger one.

I bet the average outdoorsman would be surprised if he kept count as to just how many times he uses his knife in a year's time. The knife, I would imagine, gets more use and abuse than any other single item of equipment. Yet it is amazing how little forethought goes into the purchase of a knife and the negligible maintenance it receives. The outdoorsman buys a knife and never questions whether or not it is the style or size he actually needs. The same outdoorsman might be fussy about the type of bow he purchases, for example, or arrows or broadheads, equipment he uses far less than he does his knife. The knife is taken for granted.

I suppose I lean to the opposite extreme. I'm an inveterate knife collector. No telling how many different models I've owned. I'm still looking for that elusive "ideal" knife and perhaps I always will be.

To me a knife should be big enough to do the job, yet as small as practical, which seems like an ambiguous statement. What I mean is that I want a knife is a personal choice and I'm happy. That's outdoor chores, yet I want it to be compact and

lightweight. The two aims simply are not compatible.

I've made some concessions to reduce the bulk and weight. The average knife I use isn't quite as large as I would like it to be, but I can carry it without noticing it is there. I've sacrificed service for comfort.

Perhaps this isn't the right approach. But it has worked for me and, after all, the selection of a knife is a personal choice and I'm happy. That's what counts.

Yet while there is a definite need for a he-man knife occasionally, the average outdoorsman could get by with a much smaller knife than he is now carrying. I've seen men with knives strapped on their hips that hung almost to their knees. Such a knife must be an awkward thing, banging against the hip, getting in the way everytime the man wishes to sit down, catching in brush and slamming against things. But some outdoorsmen have the misconception that a large knife is synonymous with skill and ability. Just the opposite often is true. The veteran hunter, the person who has learned from experience, carries a smaller knife that is more practical and a lot less of a bother.

A sheath knife with a six-inch blade will adequately handle about any outdoor job. A five-inch blade is almost as good. A knife larger than this is a speciality tool.

While a belt knife is all right, my preference is a folding knife, one that can be carried in the pocket where it is out of the way. A pocketknife of comparable size will do everything a sheath knife will do. Last fall a friend and I field-dressed a Colorado elk with a pocketknife with a four-inch blade and we experienced no particular problems. This knife was more than adequate.

(Continued on Page 18)

Top archers say it's impossible, but

We never give up trying...

to improve the Pro Medalist

'WORLD'S MOST ACCURATE BOW'

Since the introduction of the original torque stabilized Pro Medalist, started the trend in stabilized bow, we have refined the original with small but, important design developments added a new adjustable micro-rest improvement, dyna-poise limb refinement, and new torque flight compensators. Our painstaking search for even greater accomplishment has brought reality to what some have said is impossible.

That is why we never give up trying at Hoyt — day after day, every practical approach to bring more consistent accuracy . . . more pleasurable shooting . . . is researched and developed . . . then we combine the engineered design into a truly beautiful concept of line that distinguishes every proud owner of a Pro Medalist Bow!



If you have never tried the torque stabilizer Pro Medalist with the many exclusive features it has introduced to archery . . . isn't it about time to improve your shooting skill with the "World's Most Accurate Bow?" Others have . . . look at the record. YOU are invited by your Hoyt dealer to try the Pro Medalist.



TINSLEY—

(Continued from Page 17)

Generally speaking, with a knife, like anything else, you get just what you pay for. Me, I'd rather pay a bit more and get a knife with a stainless steel blade than I had buy one that tends to rust. I examine the handle and rivets and buy a knife that's built to take punishment. I'm not inclined to baby a knife. I want one that, within reason, can take anything I dish out.

Yet it is foolhardy to wreck the family budget to get an expensive knife that's more for show than service. Fancy bone handles are pretty and rugged, but a belt knife with a leather handle is cheaper and is just as good, providing both have quality steel in the blade. The key to any knife, of course, is the blade. If a knife holds a fine cutting edge and doesn't chip at the slightest mischance, then it is good enough for me.

After running through gosh-knows-how-many knives I've come up with the nearest thing to the "ideal" sportsman knife I have found. It is a folding knife, one blade, with a wooden handle, and measures 3 3/4 inches when closed. This knife is big enough to handle any job I may want it to handle, yet it is compact and lightweight. I can put it my pocket and never know it is there. This particular knife is quite economical in price, yet the blade is quality steel.

Another favorite is a pocketknife with three blades, four inches long when closed. If this knife were a bit lighter I'd like it even better. But sometimes the extra blades come in handy; so I carry it about as often as I do the single-blade knife.

These two knives I pack when going after big game. If I'm small game hunting or simply camping, then I carry a pocketknife that is three inches long when closed. This knife is a constant companion. It is small and light enough to pack even in business clothes, yet it is large enough to handle many outdoor jobs. In fact, the last deer I killed was gutted with this knife. The biggest sheath knife couldn't have done a more precise and quicker job.

I once watched a veteran hunter gut a whitetail deer with an ordinary razor blade. He told me that even a small penknife will field-dress the largest of big-game animals if it is sharp. The duller a knife the bigger it must be to handle any particular chore. This is why many hunters lug about big

knives; they are dull and the size and weight are needed where the blades will cut.

The typical knife that comes from the showcase may seem sharp, but it really isn't. Only the very edge has been tapered. Examine a new knife and you'll notice that the edge slants at about a 45-degree angle. A machine-sharpened knife like this won't hold an edge long.

The theory of sharpening a knife and a broadhead are basically the same. The knife blade should be shaved where the cutting edge is quite thin. A blade such as this, with a gentle slope, will take and hold an edge.

Use a rough stone for shaving and a fine one for finishing work. Sometimes you may need a bastard file to taper the blade. A wet stone is better than a dry one. Use light oil liberally or even kerosene. Sharpen with a circular motion rather than simply pushing the blade back and forth. Examine it periodically to be sure you're getting an even taper on both sides.

The old test of shaving your arm to test sharpness is still pretty good.

Once this fine cutting edge is achieved, not much maintenance is required to keep it honed. A small pocket stone should be standard equipment on any outdoors trip. I also carry a small pocket steel. Run this steel along the blade edge a few times and you'll be amazed at the results. To discourage anyone from writing me personally about the source of such a steel, I'll say that the only place I know where you can obtain one is from the Burnham Brothers, Box 100, Marble Falls, Texas. The price is one dollar.

But one thing to keep in mind is that a sharp knife like this is a wicked weapon. If you prefer a sheath-type knife, get one that has an ample guard between handle and blade, to prevent your hand from sliding onto the cutting edge. Always cut away from your body and not toward you. I once saw a man, cutting the brisket of a deer, pull upward violently. The knife came free and stabbed him just below the eye. One inch higher and he would have been blinded on that side.

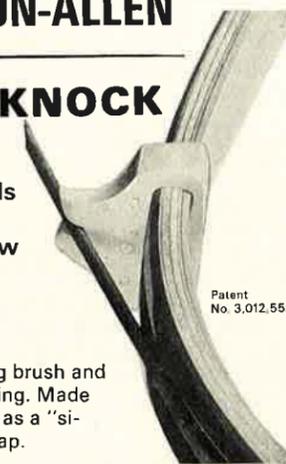
Make it a practice to keep your knife sharp and I think you'll find that you can get by with a knife much smaller than the model you are now using. I'm not against big knives, understand, but I can't understand why anyone would want to lug about a heavy piece of equipment when it is totally unnecessary. A medium-sized knife will take care of every outdoor chore within reason, yet it is compact and easily carried. That's a hard combination to beat.

Original Archery Items by WILSON-ALLEN

W.A. BRUSH KNOCK

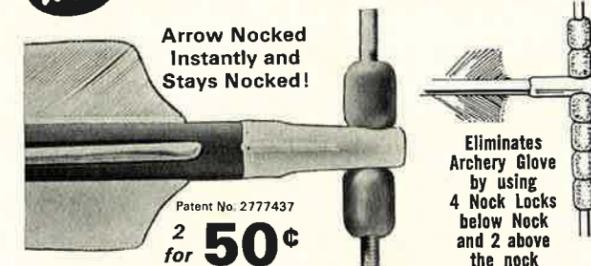
- Fits All Bows
- Use on Both Ends of Bow
- Will Not Mar Bow

2 for \$1.00



Protects bow from snagging brush and grass between bow and string. Made of pure gum rubber. Serves as a "silencer" by hushing string slap.

W.A. ARROW NOCK LOCKS



Arrow Nocked Instantly and Stays Nocked!

Patent No. 2777437
2 for 50¢

Eliminates Archery Glove by using 4 Nock Locks below Nock and 2 above the nock

Nock Locks increase accuracy because arrow is nocked in same position on bow string for every shot. Holds arrow firmly at desired position.

W.A. BOW TIP PROTECTOR 50¢ each

- Protects bow while stringing and holds string in place
- Keeps bow tip in new original condition.
- Made of soft pliable rubber.
- Fits all bows.



Wilson-Allen Archery Items are available at Archery Dealers . . . or Order Direct from Us.

WILSON-ALLEN CORP.
Box 300 WINDSOR, MO. 65360
Telephone 816 647-3125



NATIONAL ARCHERY ASSOCIATION

of the UNITED STATES / RONKS, PENNSYLVANIA 17572 / 687-7324 (AREA CODE 717)

MEMBER: UNITED STATES OLYMPIC COMMITTEE MEMBER: AMATEUR ATHLETIC UNION OF THE U.S. (AAU)
MEMBER: INTERNATIONAL ARCHERY FEDERATION (FITA)

SECOND ANNUAL U.S. AMATEUR FIELD CHAMPIONSHIPS HELD AT YORK, PA.; LAMB, FORRESTER SMITH, BROWN, BAECKEL WIN

The second annual NAA-sponsored U.S.A. Amateur Field Archery Championships, shot on the two superb 28-target courses of the York Archers in south central Pennsylvania on June 14-15, offered further evidence that we'll be sending a very talented contingent to the field event at the World Championships at Valley Forge. The ten top scorers, male and female, f-s and barebow, earned the right to compete in the U.S. Team Tryouts for field, shot July 12-13 at Seven Springs, Pa.; also eligible to enter the tryouts were the archers who placed similarly at the '68 amateur, shot in September at Cincinnati, and archers who won or placed high in state amateur field championships or in various qualifier tournaments.

At York, the highest score turned in was that of the intermediate div winner—Larry Smith, Glen Rock, Pa. Larry had a 550 hunter's round and a 517 field for a 1067 total. A field round score of over 500 was quite an achievement at York: the day was punctuated by a series of sudden showers which soaked everybody on the courses.

Winner for the men in the freestyle div was John Lamb, Cincinnati, with a 531 hunter's and a 502 field for a 1033. Runner-up Bill Johnson, Dalton, Pa., also



The winners at York: Larry Smith, top inter and the high man for the tournament; Larry Forrester, men barebow; Scott Mitchell, inter b-b; June Baeckel, women barebow; Barbara Brown, women's freestyle, and John Lamb, men's freestyle. This was the second annual U.S. Amateur

hit a 1033 (a 532/501), but the rules for the international field rounds say that ties are broken on the basis of the number of hits—and Lamb, who missed the target once, had one more than Johnson. Third was Ron Beane, Mechanicsburg, Pa. (538/486 for 1024) and fourth was Lee Fitcher, Newark, Del., 520/507 for 1023.

Larry Forrester, Oxford, Pa., took the barebow div with 576/466 for 982. Emil Lahan, Monroesville, Pa., was second, 495/465 for 960, and third was John Cowles, Herndon, Va., 950.

For the f-s women it was another teener—Barbara Brown, Ledyard, Conn., with 462/393 for 855. Kathy Fecko, Pittsburgh, was second, 825, and third was Pat Violini, W. Nanticoke, Pa., 819. In women's barebow, the winner was June Baeckel, Oxford, Pa., with 330/353 for 683; she was followed by Fran Grube, Manheim, Pa., 672, and Rae Dabelow, Galveston, Ind., 614.

The intermediate boys were sensational. Runner-up to Larry Smith was Steve Lieberman, Reading, Pa., with 548/483 for a 1031; next was Doug Brothers of Cincinnati, 510/461. There was one archer in the intermediate b-b div, Scott Mitchell, Bloomington, Ind., who hit 502/472 for a 974. He broke his own '68 record by 93 points.

Although the men's f-s mark of 1043 set in '68 by Dick Branstetter wasn't busted, there were a number of new records set in other divs: Larry Forrester's 982 b-

(Continued on page 26)

OFFICERS & GOVERNORS

of the

NATIONAL ARCHERY ASSOCIATION

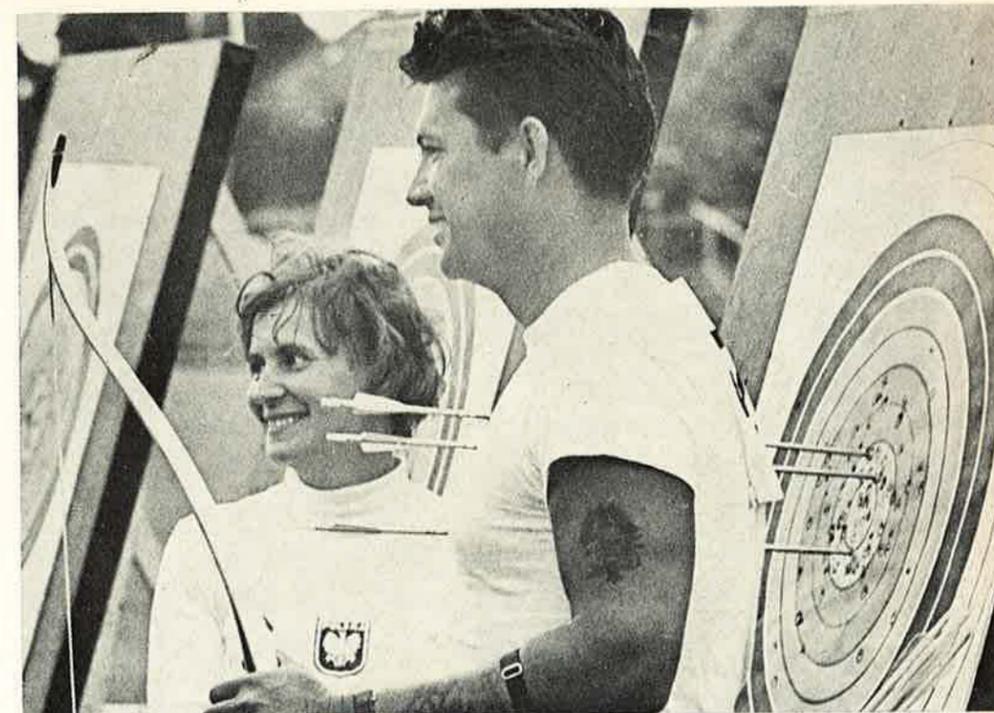
PresidentMARVIN KLEINMAN, 999 Second National Building, Cincinnati, Ohio 45202.
Vice-Pres.GEORGE HELWIG, 69 E. Galbraith Road, Cincinnati, Ohio 45216.
SecretaryCLAYTON B. SHENK, Ronks, Pennsylvania 17572.

BOARD OF GOVERNORS

Term Expires 1969	Term Expires 1970	Term Expires 1971
JAMES D. EASTON	GEORGE HELWIG	WILLIAM R. LOWRY
5110 Encino Avenue	69 E. Galbraith Rd.	171 S. Hibiscus Ct.
Encino, Cal. 91316	Cincinnati, Ohio 45216	Plantation, Florida 33134
MARVIN KLEINMAN	WILLIAM STUMP	JOE T. THORNTON
2nd Nat'l Bank Bldg.	Beaver Dam Road	216 N. Muskogee
Cincinnati, Ohio 45202	Cockeysville, Md. 21030	Tablets, Okla. 74464
LURA WILSON	EDWIN M. ELIASON	STEVEN H. HAYES
Greene, New York	8323 - 12 N.W.	5836 Norwich Ave.
13778	Seattle, Wash. 98107	Van Nuys, Calif. 91401

NAA pages editor:
WILLIAM STUMP, Beaver Dam Rd., Cockeysville, Md. 21030

Poland's Maria Maczynska, Ray Rogers of the United States—they'll be defending their world titles at Valley Forge. The target competition, a double FITA, starts Wednesday, August 13, following a day of official practice; it runs through Saturday, August 16. Field events are set for Monday and Tuesday. Thousands are expected to attend the tournament—and there's a good chance millions will read about it and, hopefully, see it on TV. Who'll be Ray's team-mates at Valley Forge? Turn the page!



And Now The World Championships!

After years of hoping and months of planning, archery's World Championships are almost here. Literally dozens of archers—NAAers, field archers, bowhunters—are involved in working to make the event at Valley Forge one of the great tournaments ever held anywhere. "The trip to the tournament will be the first visit to the United States for most of the archers competing at this historic place," says George Helwig, tournament director. "We want to make the visit memorable. The impression we make upon them will be the impression they'll take home of our country. So we've got to do a good job."

In addition, the world event will help tell the archery story to millions of Americans who still equate bows and arrows with the toys they buy their kids at Christmas. Already a massive publicity campaign is underway, and more about archery is appearing in newspapers, magazines and on TV than ever before.

At this writing, the number of nations sending teams had not been finalized, but it's expected that at least 20 will participate.

NAA members shortly will be receiving the handsome tournament program. It contains directions so you can readily find the field. Route 202 is the key—it takes you to the site either from the north or south. The Pennsy Turnpike is in sight of the field—you take Exit 24 off the turnpike, go south on 202 to the Devon exit, where you'll see signs directing you. Philadelphia is 23 miles away. If you haven't made motel reservations near the field, you may be in real difficulty—the competitors and tournament officials have a good many of them, including rooms at the Holiday Inn at King of Prussia, 2½ miles away of 202. Valley Forge State Park, which last year saw 1,631,000 tourists visit its 2255 acres, is always jammed anyway.

Here is the day-by-day program for the event:

- MONDAY, AUGUST 11
 - 9 AM FITA Congress meeting—Holiday Inn (Open only to official delegates of member nations)
 - 12 Noon Luncheon for Congress delegates—Holiday Inn (Host: Pennsylvania Federation of Sportsmen's Clubs)
 - 5 PM Reception, team members and officials—Holiday Inn
- TUESDAY, AUGUST 12
 - 9 AM Tournament field open for official all-day practice
- WEDNESDAY, AUGUST 13
 - 9 AM Inspection of equipment for FITA Round contestants
 - 10 AM Opening ceremonies—march-in- of nations, speeches
 - 11 AM First FITA begins—70 and 60 meters, ladies: 90 and 70 meters, gentlemen. Luncheon break between distances
- THURSDAY, AUGUST 14
 - 10 AM First FITA continues—50 and 30 meters for ladies, gentlemen. Luncheon break between distances (This is U.S. Olympic Day, and Olympic officials of this nation will be the tournament's guests)
- FRIDAY, AUGUST 15
 - 10 AM Second FITA begins—70 and 60 meters, 90 and 70 meters. Luncheon break between distances
- SATURDAY, AUGUST 16
 - 10 AM Final 50 and 30 meters for ladies and gentlemen. Shortly after the competition ends, brief ceremonies will be held to recognize individual and team champions of the world.
- SUNDAY, AUGUST 17
 - 9 AM Practice for field archery events
- MONDAY, AUGUST 18
 - 8 AM Inspection of equipment for field archers
 - 9 AM Opening ceremonies
 - 10 AM International Hunter's Round—Ladies, Gentlemen
- TUESDAY, AUGUST 19
 - 9 AM International Field Round—Ladies, Gentlemen (Shortly after the competition ends, ceremonies will be held to recognize the Field Lady Champion and Field Gentleman Champion of the world.)
 - 7 PM Banquet and awarding of prizes—Holiday Inn

**The Team? John Williams, Ray Rogers, Steve Lieberman, Hardy Ward—
and Clela Wanamaker, Cindy Slade, Doreen Wilber, Ardelle Mills**

The Tryouts: Some Thunder In St. Louis

By WILLIAM STUMP

St. Louis's sky was not peaceful during the U.S. Team Tryouts in June: the clouds on the horizon turned black, grumbled and snarled their way toward the field, hurled down rain and lightning bolts and kicked up winds to remind archers that there were real live tornadoes in the area.

But the archers in Forest Park didn't need reminding about one of the tornadoes—the one named John Williams. Fifteen years old, he captured the top spot on the target team which shortly goes against the best in the world at Valley Forge: he took Ray Rogers by 11 points and, for his last FITA round, he racked up an as yet uncertified world record—a 1242.

John's performance, let us hasten to say, wasn't the only excitement in the two-day event. Indeed, it's impossible to recall a tournament packed with so much drama, so much uncertainty, so many close scores. But one thing is sure—a team was picked, and here it is, ladies first:

CLELA WANAMAKER—Mrs. Wanamaker, a veteran competitor from Wayzata, Minnesota, shot 1102/1125 for a 2227. She was in third spot at the end of the first day; during the rain-interrupted last day she was at one time as low as fifth.

CINDY SLADE—The current national intermediate champion, now 18 and soon to become a freshman at

Ole Miss in her home town of Oxford, ended up with 1106/1110 for 2216. During the second-day seesaw battle among the front-running gals, she, too, appeared out of it a couple of times.

DOREEN WILBER—Last year's Ambassador's Cup victor (and runner-up to Vicki Cook at the '68 National) led this one most of the way; she shot 1120 the first day, began to wilt at 50 meters on the second and came in with a 1095 to make a total of 2214. She's from Jefferson, Iowa.

ARDELLE MILLS—The second Minneapolis area gal on the squad—Minnetonka is her home town—was the national champion in '67: last year, she did no shooting. At St. Louis she was fifth at the end of the first round with 1085. She hit 1124 the second day, ended up with 2209.

And for the men:

JOHN WILLIAMS—The phenomenon from Cranesville, Pa., had 1170 for his first FITA—and then came that tornado-like 1242. Unlike most top-flight competitors (or maybe because he's young) he enjoys the action. More about him a bit later.

RAY ROGERS—The World Champion from Muskogee, Okl., was having trouble setting up his bow on Friday. But that was forgotten on Saturday, when he took command almost at the beginning; he came in that night with 1194. John caught him, of course—but Ray's second round was a 1207, his total 2401.

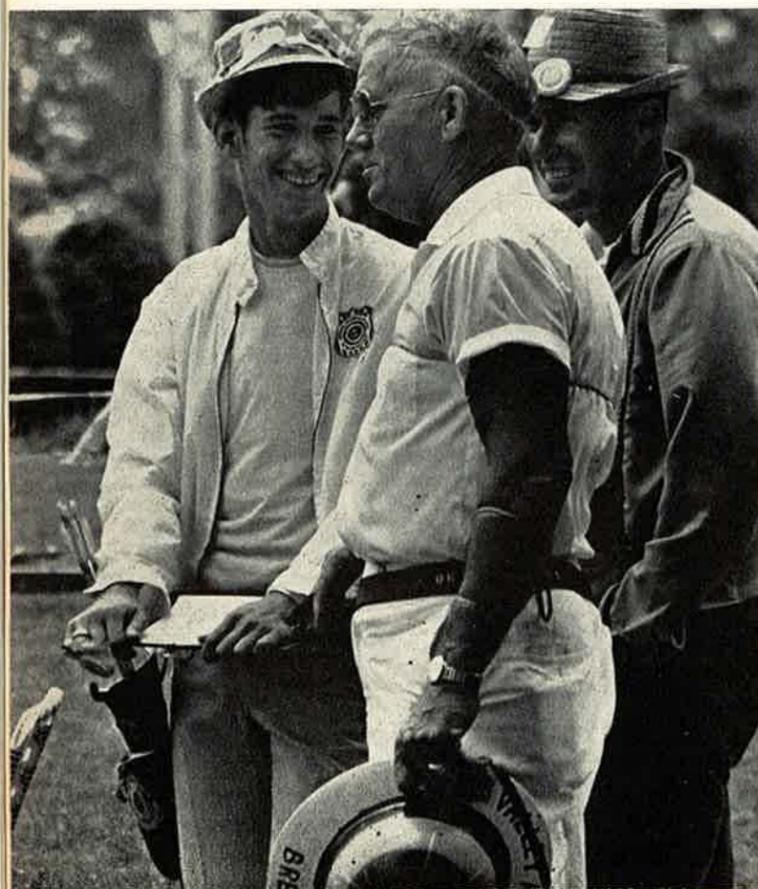
STEVE LIEBERMAN—The 16 year old future attorney from Reading, Pa., fifth at the end of Day One with 1160, climbed slowly and steadily, shot a 1145 and showed a 2305 on his card.

HARDY WARD—The national champion from Mt. Pleasant, Texas, ended up with 2298. His first day 1139 had him in 14th place; on Day Two he hit a 1145. But that's only a little piece of the story—one you should be reading in *Sports Illustrated* the week before Valley Forge. More in a minute.

Now what about the archers who didn't make it? We don't have the figures, but we'd bet that close to half of the 40 men who competed shot over 1100 for each of their two rounds—in short, probably the first 20 men had totals high enough to win most tournaments shot in this country.

The fifth place guy and team alternate (meaning he'll shoot at Valley Forge if a team member can't make it) is 15 year old Steve Wilson, Olney, Ill. This *wunderkind* ended up one point behind Ward: he shot 1147/1150 for a 2297, was in the first four at times during both days. Behind him at 1176/1109 was Allen Muller; in third at the end of the first day, he came apart on the second. Former World Champion Joe Thornton was next, four points behind with 1147/1134; one point behind him was Ed Eliason, with Joe one of two Board members in the

John Williams actually seemed to have fun at the Tryouts; he's at the left, his dad is on the right and the man in the middle is the great O. K. Smathers, the '57 world champ who placed tenth at St. Louis. John, 15, shot a 1242 for his second FITA—it's probably a world record



They'll represent the U.S. at Valley Forge. Front row, Clela Wanamaker, 18 year old Cindy Slade, Doreen Wilber, Ardelle Mills. Back row: Team captain Harry Gilcrest, Steve Lieberman, John Williams, Hardy Ward, world title-holder Ray Rogers. Photo was taken in headquarters motel after the shoot—because of rain

tournament: Ed had 1147/1133 for 2280. Brian Metzger was ninth with 1129/1141 for 2270, and tenth was 1957 World title-holder O.K. Smathers.

Rounding out the first ten for the gals? Fifth, and the team alternate, was Nancy Myrick, the '65 national title-holder and the highest-scoring American lady (fifth) in the '67 World. She was three points behind Ardelle with 1092/1114 for 2206. National champ and '63 world victor Vicki Cook was next with, for her, a sad 1057/1077. Maxine Bots, whose husband, Jim, also was competing, was seventh (1062/1055). Maureen Bechdolt (1059/1052) was eighth. In ninth was Donna McCuin, the '66 (as Donna Weston) intermediate title-holder, with a 2079 total. Jane Slade, Cindy's big sister, was tenth with 1050/1024 for 2074.

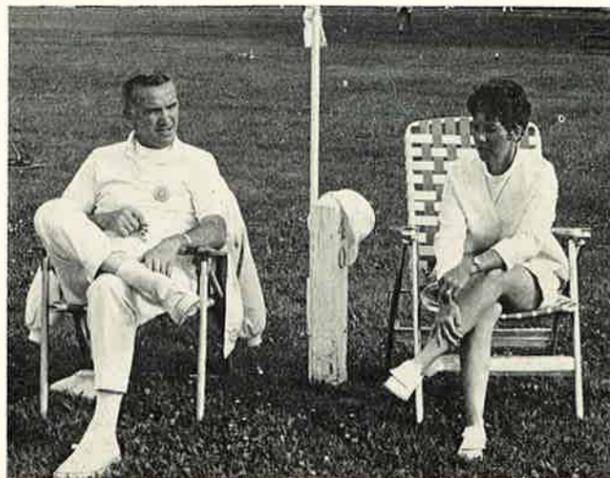
The entry list of 40 men and 25 women was the smallest for a Tryouts since the 1950's, a major reason being the upping of the minimum scores needed to qualify. There were state champs and regional champs galore at St. Louis, and plenty of archers whose names are familiar. Threatening during parts of the tournament for the men were California's Karl Radde and Louisiana's Paul Haydel; such dark horses as California champ Don Snipes, Tom Meyers of Texas, Bob Bakken and Wes Hagemeyer of Minneapolis, Ed Sroka and Ray Dasch of Pennsy just couldn't mount a

challenge. At the beginning it seemed that there might be a hope for Arizona's Kirstie Kaiser, California champ Diane Vetrechin, Linda Meyers of Pennsylvania, 1966 national champ Helen Thornton and Nancy Vonderheide Kleinman, the '61 world title holder. But all of them were back in the pack.

Let's take a quick look at some other facets of the tournament:

WEATHER—It was crazy. Cloudy and cool the first day; that night, thunder showers which kept right on after dawn. No sooner did the archers line up for the second day's start when a tornado warning was announced; the entire line moved under cover in the amazing McDonnell Planetarium building. The warning came to nothing, but after three ends the heavens opened and it was back to the planetarium. There was at least an hour's delay. It didn't rain again until 30 minutes after the last arrows of the day had been shot.

PUBLICITY—Thanks to NAA's World Championships publicity committee, and especially to Henry Lee, there was TV, radio and newspaper stuff galore in St. Louis. As a result of an article in these pages about Hardy Ward, *Sports Illustrated* was on hand in the person of Herm Weiskopf; Herm's piece about Hardy is scheduled for the magazine, as mentioned, before the world event. Weiskopf got



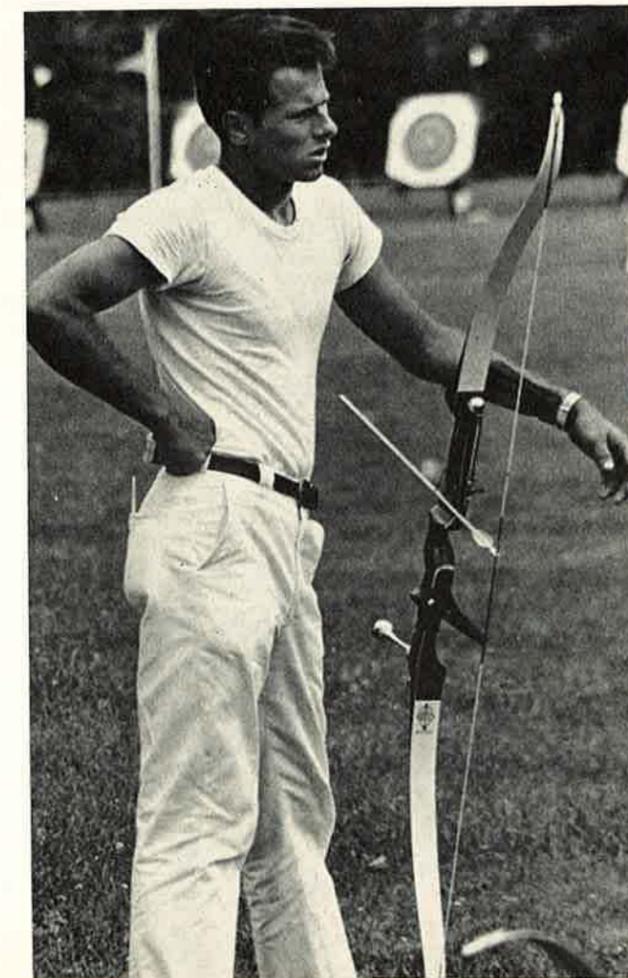
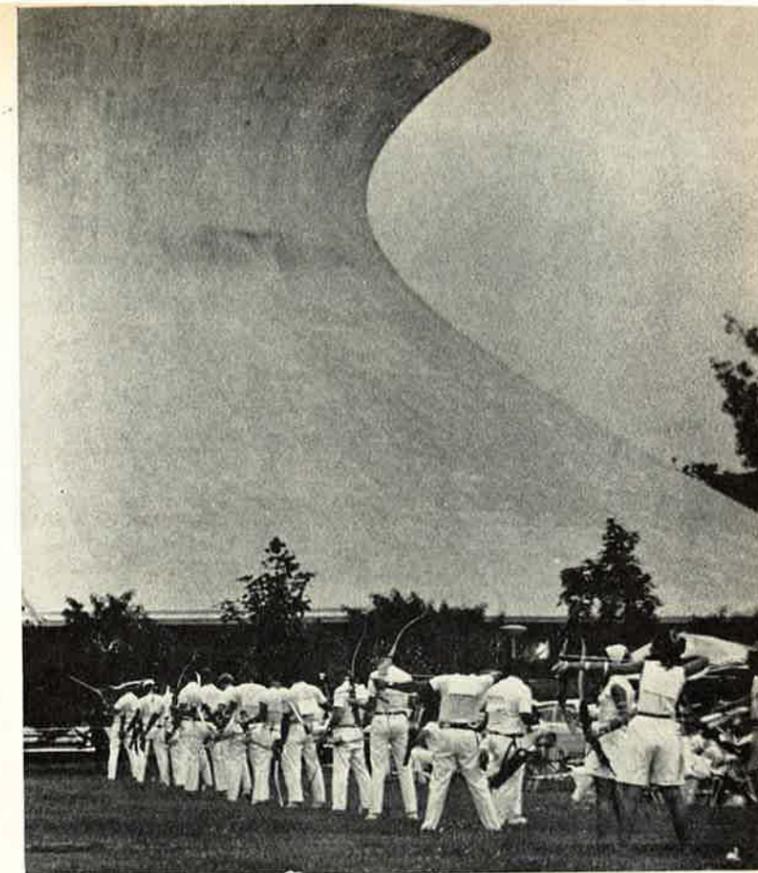
Unflappable Clea Wanamaker, above, shot 1102/1125 to lead the ladies; gals at the target are Lou Ann Fellingham, Iowa, and Kirstie Kaiser, Arizona. Middle photo shows Steve Wilson, the 15 year old who placed fifth; wearing the hat is third-spot Steve Lieberman. Bottom, Harry Gilcrest and Diana Hoffarth, lady paramount

himself a story, too, because it was something of a miracle that Hardy got on the team at all. He came to St. Louis limping as a result of a torn ligament. On Friday, during practice, a string broke: when the bow hit the ground, one tip was shattered. Hardy dashed to the close-by Hoyt factory and picked up a brand new bow and started the tournament still setting it up. At day's end on Saturday he was in 14th spot. The next day? In checking fistmele he busted his only set up string had to put on a new one. Coming off the planetarium porch after the rain he tripped and hurt his leg again. Sometime during the day his score was recorded as being ten points less than it actually was.

And, with his last arrow of the day, Hardy threw a one. Steve Wilson was just a point behind.

ST. LOUIS ARCHERY CLUB—If just half of NAA's affiliated clubs were as good as this one, archery would be a major sport. President-elect Jack Hoffarth marshalled a crew of 30, that did everything from run the scores back to headquarters to serving the best food we've ever seen at a tournament.

PEOPLE—Rochester's Rosellen Walker, who'll aid Lura Wilson with scorekeeping at Valley Forge, paid her own way to St. Louis to learn the ropes . . . Harry Gilcrest, the team captain, served as field captain; Diana Hoffarth was Lady Paramount . . . the spectators undergoing the most agony were the families of contending archers . . . Mr. and Mrs. Don Ward, Mr. and Mrs. Ed Willaims, Jack Wilson of Illinois . . . as reported,



son Steve was fifth, and 13 year old Dave, the youngest archer to ever qualify for a Tryouts, did very well . . . Bohn Wanamaker was dying with every arrow . . . Eiko Bulman's husband didn't move an inch from his behind-the-line spot during the two days . . . college archery's Margaret Klann, a candidate for the Board from the Pacific Region, was on hand . . . NAA prexy Marv Kleinman and NAA sec'y Clayt Shenk were there . . . Brian Metzger told us on Friday that Johnny Williams would beat Ray Rogers . . . Mrs. Rogers—Paula Rae—watched the action with cool . . . she *knew* hubby would make the squad . . . the Wilson Brothers' Jack was there . . . so was Earl Hoyt . . . there were more Hoyts on the line than any other bow, with Wilson next, Bear third . . . PAA's and Bear Archery Company's Doug Walker kept a close eye on the action . . . 21 states were represented on the line . . . one archer summed the whole thing up pretty well: "Well, it looks like I won't make the team. But this is the finest tournament of all, and I consider it an honor to be able to come here."

Hardy Ward, who had a rough time earning fourth place on the team, agonizes after a shot. Building in background at top of page is the McDonnell Planetarium, a magnificent structure on the edge of the field. In column one, Doreen Wilber, and Ray Rogers—also doing some agonizing



Junior Olympic Archery Development Program
GEORGE HELWIG, CHAIRMAN
 69 E. Galbraith, Cincinnati, Ohio 45216

Canda has adopted our Junior Olympic program. I have just received a communication from Ron Boorman, with whom I've been corresponding for many months, and Ron tells me that Canada's set-up is about identical to our own. The patches and medals, of course, are different in that they show the nation's emblem. This is the second country to adapt our program to its own needs. The first? South Vietnam, thanks to the efforts of Sgt. Dick Wright, whose work to establish archery among the young people of that war-ravaged nation have been the subject of a feature article in these pages.

Of course we are pleased about all this, and it wouldn't surprise me to see many more nations establish their own Junior Olympic organizations. We will be only too happy to assist. In three years, our own JOAD set-up has grown far beyond our original expectations. The word "Olympic" seems to have a great deal of magic about it. It's a jealously guarded word, I might add, one that can't be used without certain clearances and approvals from a nation's national Olympic group.

Rae and Bob Dabelow report that Indiana's first state Junior Olympic championship tournament—it was an indoor one—was very successful. It was held this past spring at the Galveston Indoor Archery Club, and the club, together with the Wildcat Valley Junior Olympic club, were the hosts.

The Junior Olympic Archery Development Indoor Tournament Round was shot and, for the information of non-JOADers, that 60 arrows at 20 yards, 24" face. A perfect is 540. The cadets outscored the juniors in this one! David Harper II, of the BMR club, hit a 514, with Don Dabelow following with 512; Andy Sutphin, a member of the Indy 500 club, was third with 502. In the junior division the high scores were 492, 435 and 435, shot respectively by Tom Whitlow (Indy 500), Gary Thomas (Wildcat) and Tim Sutphin (Indy 500).

I should have mentioned that David Harper is eleven and Dabelow is ten. As Mrs. Dabelow says: "If these two boys keep up their archery, look out!"

The best score of the tournament was 532, eight points shy of perfect, and this was tallied by Dick White of BMR. Mrs. Dabelow tells me that he brought only six arrows with him and had to replace nocks during the tournament. She feels he might have scored a perfect otherwise. The third intermediate, Rick McKinney, also of BMR, had a 516, six points behind runner-up Tom Sutphin. Paula McKinney with 316 was winning cadet girl, and Betsy Harvey, with a nice 514, was winning junior girl.

The Ohio State JOAD Indoor Championship went to Doug Brothers, Cincinnati, score-wise. He's a junior. Debra Simms, an intermediate, had the top card for girls. David Warren won for the intermediate boys, Cindy Bednar took it for junior girls, and the cadet winners were Kyle Kennedy and Hugh Bennett.

I have a letter from Rick Davis of Detroit, and I think I'd better print it:
 Dear Sir:

I read your article every month because I am a Junior Olympic archer myself.

I am writing to you to find out how come my friend's name isn't put in there. His name is Mark Darnell from Starlight Archery, 2231 W. 8 Mile Rd., Detroit, Mich. He shot his score indoors. His score was 262. This was December 16, 1968.

I would like to see his name put in your article next month because he deserves a lot of credit, too.

Yours truly
 Rick Davis

To Rick I offer my apologies, and I want to congratulate him for thinking of his friend. Naturally we want to get as many names as we can into this column, but now and then lack of space prevents it.

U.S.A. Amateur Field Championships
(Continued from page 20)

b total beat the old one by 33 points, and Larry Smith's 1067 smashed the '68 mark by 90 points; the two runners-up in the interdiv beat it, too.

Ten states were represented . . . Pennsy, because it was home (and because it's a stronghold of amateur field archery competition) had the most, 41 . . . there were 63 competitors, about the same as last year . . . York Archers have a great set-up, with a clubhouse in which hot meals are served . . . in addition to its 56 field targets, it has a target range and a running deer arrangement.

At its August meeting during the National at Valley Forge, the Board will discuss bids for the 1970 U.S.A. amateur field .

The Editor's
Tackle Box

The Brown County Open is one of the nation's top tournaments; it's shot over the weekend closest to Memorial Day on a field built especially for the purpose in Brown County State Park, near Nashville, Ind., and clubs in various nearby states take turns doing the work. 1969's was the event's 39th renewal; the Cincinnati Archers were in charge. The Open is a particularly significant archery happening because it's the first big outdoor tournament of the year for most midwesterners, and all the hot shots show up. Often the shoot is a portent of things to come in the summer, winner-wise; I'm writing this a few days before the U.S. Team Tryouts at St. Louis, and it's going to be interesting to compare the BCO results with the outcome.

There were 130 archers on the line, and here's what happened. For the men the winner was 15 year old Johnny Williams, with a 1140 FITA and an 837 NAA 900 for a 1977 total. Milwaukee's Jim Frey was second, 1163/808; Al Muller (1153/799) and young Steve Wilson (1139/806) were next. For the gals? Ardelle Mills, '67 national champ, with 1137/750 for 1887. Next in line: Vicki Cook with 1101/784 for 1885, then Maureen Bechdolt (1051/748), June Mitchell (1069/712).

(Down among the 47 men were such archers as Dave Wilson—Steve's younger brother—Jim Bots, O.K. Smathers, Dick Branstetter, John Lamb; some well-known gal also-rans were Nancy Kleinman, Clela Wanamaker, Mary Jean Buck, Maxine Bots).

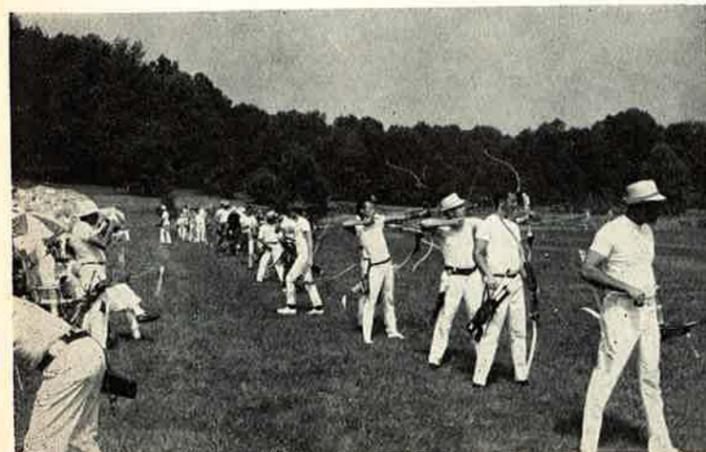
Pro men were led by Jack Wilson—Steve and Dave's dad, from Olney, Ill.—with a great 1192 and an 816 for the tourney high of 2008. Barbara Dick was top pro gal. In the inter boy div, Doug Brothers, Cincy, hit 1056/749. Jim Flint and Wilma Snyder were winning juniors, Don Dabelow and Susan Buck won for the cadets and Tom Hock took the crossbow honors. George Helwig reports that Al Martin and Kletis Wheatley were field captain and Lady Paramount, and that Mrs. Helen Brothers handled the kids' line. St. Louis will organize the 1970 event.

A tremendously interesting tournament took place



The big athletic field at the Carling Brewery outside Baltimore was the setting May 31 of the biggest target tournament in Maryland history; the event was sponsored by the Maryland Archery Association and its target archery div. The round was a Single American, and competitors, who came from a number of states, had a choice of shooting in the morning, at mid-day or in the late afternoon. 168 competed. High round was local ace Don Chapman's 768. Carling gave the trophies

in Maryland on May 31. It was the first annual Carling-Maryland Archery Association charity shoot, with all registration monies (\$1.50 a head) going to the James L. Kernan Hospital, a nationally-famed orthopedic institution. The place was the athletic field of the Carling Brewery, near Baltimore; doing the work were the Oriole Archers and the Potomac Archers of the state association's Target Archery Division. A total of 199 registered; 168 actually shot. There were handsome Carling-donated trophies and, of course, free beer in the brewery's attractive Carling Room after each of the three flights. A Single American was shot, with archers having a choice of 9:30, 1 p.m. or 4 p.m. starting times; in effect there were three separate tournaments, and awards were made accordingly. The really interesting thing: a good many of the 168 archers had never shot a target round before, and thus the tournament was great promotion for NAA archery in Maryland. The two NAA-affiliated clubs signed up new members—and they also sold 91 Team Travel Fund pins. Archers came from New Jersey, Ohio, Pennsy and Virginia to share in the fun. Again, it'll be on for 1970!



The Brown County Open is shot in a state park near Nashville, Indiana, on a field built especially for the event



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, inc. husband, wife. \$1 more for under-18ers. \$3.50 for under-18ers who join independently of family. Includes magazine!

Name(s) Soc. Sec. No.
 Street
 City State Zip
 Individual Family Youngster(s) under 18 \$.....Enc.
 Make checks payable to the National Archery Assn.
 Mail to NAA, Ronks, Pennsylvania 17572



A couple of Colorado hunters well pleased with the mixed bag of some fine bucks and a limit of mallards



Camping & Trailering

BY JUDD COONEY

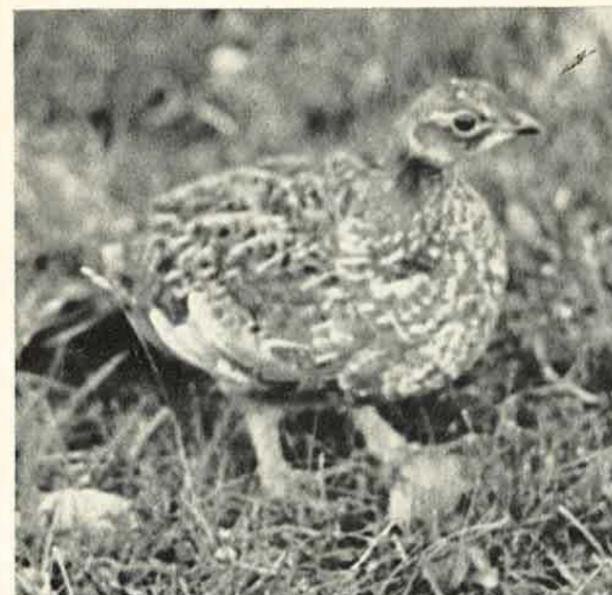
Bowhunting, For The Birds

Ker-thunk, went my sixth and last broadhead, dead center in the middle of an old dead stump. During the past five minutes I had buried all six broadheads from my bow quiver in either stumps or live trees and was now going to have to start digging them out if I was to continue in pursuit of my quarry. You're probably wondering what I was doing shooting stumps with broadheads in the first place, well actually, I wasn't shooting at stumps, I was shooting at a feathered critter called a Blue Grouse but couldn't seem to get the bird and a broadhead in the same place at the same time.

Carl Leonard, a bowhunting buddy and I had been high up on Elliot Ridge trying to get a shot at a buck for a day and a half during Colorado's bow season and hadn't found a trophy to our liking as yet, so we decided to drive down the back side of the ridge and do some hunting there.

We had driven about a mile in my four-wheel drive pickup, over what had to be the most treacherous stretch of road in the Rockies, when Carl spotted a small bunch of Blue Grouse in the Quakies just off the road.

This particular fall, the bow season in Colorado



Blue Grouse

and the Blue Grouse season overlapped, allowing a bowhunter an excellent opportunity to get some delicious camp fare in addition to his buckskin hunting.

We both jumped out and got our bows out of the back and proceeded to surround the grouse. I had only the arrows in my bow quiver and all of them were tipped with Bear Razorheads, complete with inserts. The Blue Grouse are not the brightest birds around but they seemed to have charmed lives that day cause everytime I lined up on one and loosed an arrow, he either stepped behind a tree or stump.

In the short space of five minutes, I had all my broadheads nicely buried in trees or stumps and the grouse were all around me.

Carl had done much better and bagged his three grouse using field points with no problems. I managed to dig out several of my arrows and took off in pursuit of the now vanishing flock. I did finally manage to get one bird and lose both my arrows but I guess that's what makes bowhunting the sport it is.

During the fall months, bowhunters in many states take to the woods in pursuit of deer and other big game without a thought about small game. Many of the states across the Western United States have small game and bird seasons open at the same time as their archery deer season, thereby giving bowhunters a chance to hunt several types of game at the same time.

Quite often I have been in areas where a season is in progress on both large and small game and have found myself enjoying the sma'll game

hunting more than the big game hunting because the small game provides so much more shooting.

Rabbits probably provide bowhunters more hours of enjoyment across the nation than all the other animals put together and many states have the season open on these little critters right along with the big game seasons. Hunting these bunnies during a bow season is only a natural thing to do and this is one great advantage of hunting with a bow. A bow is quiet and doesn't spook game or even alert game when you loose an arrow.

I have spent more time during our fall big game season, hunting snowshoe rabbits and stalking them, than I have deer and yet basically, I was deer hunting.

One thing I have had trouble with is, as I mentioned earlier, the fact that while deer hunting I was carrying a bow quiver full of broadheads, which are not the ideal small game heads.

I have found the absolute cure for just such an instance, by switching to Bear's Converta Point arrows. With these I am ready for anything big or small. I carry four arrows with the Razorheads on them and two with blunts screwed in, in case I run into some small game. I also carry field points and extra Razorheads, honed to a razor edge and taped all ready to be screwed into the shaft, should one of the other blades become dull. These arrows may cost quite a bit more than ordinary shafts but for my money are well worth it because of their versatility.

Game birds across the nation are probably hunted less by bowhunters than anything and I feel that this is mainly because the bowhunter is so engrossed in his big game that he doesn't take time to check up on bird seasons in the areas where he is going to be big game hunting. I know

(Continued on Page 30)



The Do It All Draw Check by Stuart Enterprises

- Does not interfere with flight of arrow when released before full draw
- Is Silent
- Allows you to keep your eye fixed on the sight and still know when you have full draw
- Indicates when you squeeze arrow nock
- Does not need to be removed if not in use
- Can be attached for either left or right sighting
- Involves only 3 simple installation steps Patent Pending \$2.00

Dealer Inquiries Invited

Stuart Enterprises

2021 Lynnhaven Rd.
Fort Worth, Texas 76103



FREE
WORLD'S LARGEST
ARCHERY TACKLE CATALOG
 Over 250 Pages
 Our
1929 40TH 1969
ANNIVERSARY
 EDITION
 AVAILABLE SOON
 RESERVE YOUR COPY
NOW!

ROBIN HOOD ARCHERY CO.
 UNDISPUTED WORLD'S LARGEST ARCHERY DISTRIBUTORS
 SERVING OVER 100,000 ARCHERS IN 47 COUNTRIES

-----Mail This Coupon Today-----

ROBIN HOOD ARCHERY CO.
 215 GLENRIDGE AVE.
 MONTCLAIR, N. J. 07042
 PLEASE SEND ME A FREE COPY OF YOUR
 CATALOG AS SOON AS AVAILABLE.

NAME _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP _____

Please print clearly

McKINNEY SHAFTS
 Known the World Over for Finest Quality.

Spined & Unspined **McKinney Arrow Shafts** Price List Free
 Oakland, Ore. 97462

Oldest Established Arrow Shaft Mfg. in U.S.

Nock Rite bowstring attachment
 FOR FAST ACCURATE SHOOTING

Balanced three finger action
 No slippage of arrow on string Satisfaction guaranteed

\$1.00 per pair



Nock Rite bowstring attachment
 Accepted By!

- BOW HUNTERS • BOW-FISHERMAN
- BEGINNER ARCHER • TARGET SHOOTING ARCHER

Available at archery and sporting goods dealers —
 archery manufacturers — jobbers — distributors — or write
 Nock Rite Company, 3720 Crestview Circle, Brookfield, Wis., U.S.A. 53005



Limit of Blue Grouse

of several individuals who have hunted Alaska and British Columbia with both bow and rifle and the main thing they talk about is the fun they had hunting Ptarmigan and Grouse during their spare time. If you are thinking about taking a trip to some other state, or for that matter, even in your home state, gather all the information on which seasons are open on what, in that particular area. If you are hiring a guide or outfitter, ask him about small game seasons that coincide with big game seasons.

If you are taking a fall hunting trip in a camper, you really have it made. Sit down and plan your trip well in advance and then get all the information from states along the way as to what seasons they have open for what game and birds. Most archers are going to be amazed at the different variety of game that can be hunted in an area during the big game seasons.

Colorado for instance has the archery deer and elk season opening the 3rd Saturday in August and usually running for about thirty days. The Blue Grouse, Ptarmigan, Chuckar and Sage Grouse seasons opening is the 2nd Saturday in September, so this would give you a week of hunting birds during the deer and elk archery season. Many of the other Western States are much more liberal than this on both types of seasons, so be sure to inquire about the possibilities of mixed bag, far in advance because it could change your hunting plans considerably.

Many of the eastern states open their bowhunting season for deer in November and December and during this time it is also possible

to hunt cottontail rabbits, fox squirrels, pheasant and ducks.

Many bowhunters, myself included, will hunt for big game during the early morning hours and evening and then during the middle of the day, spend their leisure hours hunting small game in adjacent areas.

If you are planning a trip into some unknown area and are going to hire a guide, let him know this is what you are interested in and I am sure that he will do his darndest to see that you are well occupied during your stay.

You might also inquire, when you first start thinking about hunting areas, as to what other game is available for you during the regular season. You will probably find yourself picking the area that offers the most variety rather than the



For information, write
 Wilson Brothers Mfg. Co.
 Route 8, Box 33-H Dept. A
 Springfield, Missouri 65804

Dealerships available in some areas

one that only offers one species of big game and nothing else.

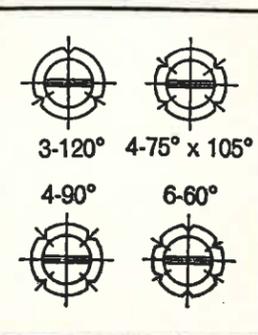
Variety is the spice of life and nothing could be more true when it comes to bowhunting.

← Carl Leonard picking up downed Blue Grouse

THE FINEST FLETCHING EQUIPMENT FOR PERFECT ARROW MAKING

No other fletching equipment gives you all these features: 1. Dial your setting and you can fletch your arrows diagonally, straight, or true helical fletch right hand or true helical fletch left hand. 2. Spaces feathers or vanes 120°, 90°, 75° x 105°, or 60°. 3. Precision die cast, form fitted thumb controlled clamps. 4. Knife edge on base of clamps eliminates build up of surplus glue.

5. Graduated scale on side of clamp for spacing feathers or vanes accurately from nock. 6. Allows clear view of fletching work at all times. 7. New self-centering nock receiver fits all nocks. See the most advanced, versatile and accurate fletching jig in archery at your dealer's or order direct. Jig with straight clamp \$23. Right or left hand true helical clamp \$25.00 (specify).



THE BITZENBURGER DIAL-O-FLETCH
 HENRY A. BITZENBURGER, ROUTE 2, BOX M-1, SHERWOOD, OREGON 97140



The Professionals

by Dave Staples,
President, P. A. A.



Owen Jeffery

TOURNAMENT TRAIL:
PAA NATIONAL: FLINT,
MICHIGAN TO BE 69 SITE.
\$15,000 PURSE.

The seventh Professional Archers Association National Championship will be held in Flint, Michigan on August 22, 23 and 24th. The purse will be \$10,000 in cash prizes to members of the Association. An additional \$5,000 in merchandise prizes will be offered in the Open division. The shoot will be titled THE FLINT SILVER ARROW OPEN. August 21st will serve as practice day for all competitors. The tournament is sponsored by the FLINT AREA CHAMBER OF COMMERCE and the Professional Archers Association. The Pros will shoot two rounds on August 22nd, one on the 23rd and the final round on the 24th. The final round is subject to the cut-off. The open shooters will compete as a team on Saturday for \$2500 in merchandise prizes, they will shoot one round each day on Saturday and Sunday. The second round on Sunday for the Open shooters will serve as individual competition, where they again will compete for an additional \$2500 in prizes. The PICK-DURANT HOTEL will serve as headquarters. The hotel is located just four miles from the tournament site. The annual Meeting of the Association will be held on Saturday evening, a

dinner will follow the meeting. Registration fees will be mailed to SAM FUDENBERG, PAA, EXECUTIVE SECRETARY, 1500 NO. CHATSWORTH STREET, ST. PAUL, MINNESOTA 55117. The fee for PAA members is \$35.00. The fee for the OPEN DIVISION is \$15.00. Tournament Director Joe Johnston will coordinate the event, Les Brown will handle operation, setup and administration. MAKE PLANS NOW TO VISIT THE FLINT AREA AND ATTEND THE FLINT SILVER ARROW OPEN. N.F.A.A. NATIONAL: WATKINS GLEN, NEW YORK. PRO DIVISION.

Members of the Professional Archers Association will be shooting in a Pro Division at the National Field Archery Association Championship. Due to interest on the part of the members, they will shoot the official five rounds of the event, over five days. This is a change from released information concerning the PAA members shooting three PAA rounds.

P.A.A. SEMINAR AT N.F.A.A. NATIONAL: HOYT, ROBERTS AND JEFFERY ON DOCKET.

The Professional Archers Association will hold a seminar on bow technology on Thursday evening following the day's shooting on Sugar Hill. The seminar will feature three of the most advanced minds in the bow building field. Earl Hoyt, Jr.,

Bridgeton, Missouri. Dickie Roberts, Three Rivers, Michigan and Owen Jeffery, Grayling, Michigan. Dave Staples, PAA President will act as moderator. The last seminar on this subject held, by the way, in Watkins Glen a few years ago, is still one of the best attended and most popular of the series in recent years. HOYT is known the world over for his many advances in bow building. Earl is also one of the most personable gentlemen in the business. ROBERTS is a young man in the field, with many fresh ideas in bow design and efficiency. JEFFERY is considered by many one of the most knowledgeable men in the field of research and design. His extensive testing processes have brought forth many new advances in the field. IF YOU'RE LOOKING FOR THE WHY'S AND WHEREFORE'S ABOUT BOW TECHNOLOGY, MAKE PLANS NOW TO ATTEND THE PAA SEMINAR. WORLD'S CHAMPIONSHIP OF ARCHERY GOLF: ALBANY, NEW YORK

The second archery golf event will offer a \$2500 purse. \$1500 in cash and \$1000 in merchandise. The dates are September 13th and 14th. Rules for this year's event will be authored by the Tournament Committee of the PAA. The Pro-Am event will again be held on the Albany Municipal Golf Course. The



tournament is being co-sponsored by the Capital District March of Dimes Chapter and Capital Newspapers. Joe Higgins will act as tournament director. The tournament will also include a visit by many of the top Professionals to the area Hospitals to visit March of Dimes children. For entertainment, a country and western show is planned for Saturday evening. Albany Mayor Erastus Corning, 2nd has proclaimed the 13th and 14th of September as: WORLD CHAMPIONSHIP ARCHERY GOLF DAYS. The proceeds will go to benefit the Capital District March of Dimes chapter, headed by Tom McElaney. This is the different one on the tour, drop by Albany, New York and enjoy it.

MAID OF THE MIST: As of this writing we have no information concerning the Maid of the Mist tournament. It had been scheduled for August 2nd and 3rd in Niagara Falls, New York. If late news pops up, AW will keep you posted.

EASTON (PENNA.) ARCHERY CLASSIC, November 15th and 16th. A \$5000 purse will be offered. The event is open only to members of the PAA. There will be both a men's and women's division in the tournament. One

PAA indoor round will be shot by each competitor. The event will be headed by Ron Silfies, Tournament Director. Dick Binns of Red Bank, New Jersey will also serve on the committee. Binns is one of the co-sponsors of the event. Bob Hallstein another New Jersey pro will be the tournament official. The tournament will be held at Dave Staples Archery Lanes in Easton. For additional information write: Ron Silfies, Easton Archery Classic, Box 176, Nazareth, Penna. Radio and TV coverage have been arranged for the event. Co-sponsors along with Mr. Binns are the Industries and Merchants of the Easton area. Charlie Weaver, area radio personality will act as tournament MC. This will be the first event on the tour open only to members of the Professional Archers Association. Easton is located on the eastern edge of Pennsylvania bordering New Jersey. The city sits on the banks of the Delaware River. Several Interstate routes cross the area to make for easy travel by car. Four major airlines serve the area through the ALLENTOWN - BETHLEHEM - EASTON airport. This makes travel by air quick and pleasant. Many sites of historical interest are available to the visitor to the Easton area.

NEWS N' NOTES

Those members having had the opportunity to attend the Eastern Section PAA SCHOOL had a plus factor going for them. They had the pleasure of spending a week with REV. JAMES A. McENERNEY, S.J. He is better known to those in attendance as (FATHER JIM). Father McEnerney is the retreat director at Manresa on the Severn in Annapolis. He made the week, seven days of learning in so many ways. Father also

(Continued on Page 34)

TRUESPOT

NOCK LOCATOR

(NEW "INSTANT" MOUNT)

Spots your arrow exactly - every shot.

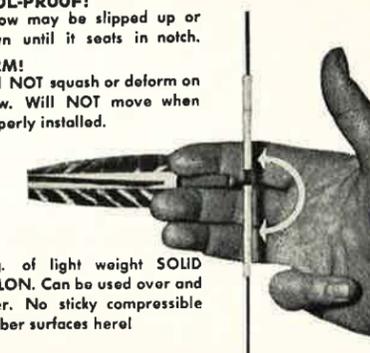
SMOOTH! Will NOT roll string. Gives extremely accurate "Hair trigger" release.

FOOL-PROOF! Arrow may be slipped up or down until it seats in notch.

FIRM! Will NOT squash or deform on draw. Will NOT move when properly installed.

\$1.00

Per Pair
At your Dealers



Mfg. of light weight SOLID NYLON. Can be used over and over. No sticky compressible rubber surfaces here!

STRING SILENCERS



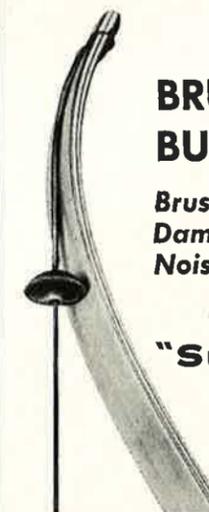
KILBEAD'S
Kills String
Noise

No flip flop ears to flutter - Nothing to hang up. Convert high frequency noise into a whisper instantly.

.75c per pr.

BRUSH BUTTONS

Brushproof Any Bow
Dampen String
Noise



"Super" Mounted on
Full Working Recurve

Super - 70¢ Per Pr.

Standard - 60¢ Per Pr.

Lic. under Pat. No. 2,617,402

FEATHERS

FULL LENGTH OR DIE CUT READY FOR YOUR SHAFTS



Shield
Style

Parabolic
Style

WRITE FOR
PRICES &
SAMPLE

Lowest Price, Highest Quality,
Fastest Service - Full Length or Die Cut



Archery Necessities & Accessories

TRUEFLIGHT

MANUFACTURING COMPANY, INC.

MANITOWISH WATERS, WISCONSIN 54545

The versatile Evelyn Goodrich is not only a champion professional archer, she is also a hunter, tracker, wife, mother, gardener and piano player

PROFESSIONALS—

(Continued from Page 33)

demonstrated his ability to SHOOT FROM THE HIP, and shoot spots too. Archery can only get richer when it gives us the opportunity to meet people like (FATHER JIM) . . . Jim Dougherty of South Pasadena, California holds 16 state, national and world championships in the field of varmit calling . . . FRED HUGHES, JR. of Waynesboro, Penna. trains thoroughbreds and has won seven races . . . DARRELL BLAIR of Bakersfield, Calif. received the award of merit in 1967 from ARCHERY, INC. . . . Peter S. Morse of Kettering, Ohio is presently captain of the KETTERING volunteer fire department . . . Silvere Thienpont of ONTARIO, CANADA is the first PAA member from north of the border . . . JOHN HERSEY of Lititz, Penna. a top notch bowhunter, has taken over 30 big game animals with a bow . . . CLARENCE KOZLOWSKI of Colinga, California the current N.F.A.A. sight champion has also been two time California state rifle champ and three time state trap shooting champion. QUITE A GUY . . . WITH THE BULLS-EYE . . . Bill Good of Gap, Penna. has created much archery interest in the central Pennsylvania region with his excellent demonstrations . . . Bill has the capacity to make them fun as well.



EVELYN GOODRICH PROFESSIONALISM PERSONIFIED

Evelyn Goodrich of Flint, Michigan possesses two of the most tangible qualities that go to make a champion in any endeavor. She is part performer, part competitor. Those tangible qualities, plus patience and determination have gone to make her one of the finest competitive woman archers in the world. As a performer, Eve started in her pre-teen years as a dancer. As a competitor, she began, not too much later, as a junior tennis champion. The experience gained on the tennis court has added greatly to her

becoming an archery champion. As a teenager, Eve's brothers ran a golf driving range. Although she never was drawn to golf, she has gained much of her approach to archery through it. Today, whenever possible as a member of Arnie's Army, she is able to relate the effects of pressure, the benefits of concentration and the rewards of hard work through hitting the ball, to shooting the bow.

Her archery record speaks for itself. Starting in 1961, a year in which she finished third in her

state target championship, to 1969 when she was a member of the second place women's professional team at the American Indoor, Eve has carried the banner of Professionalism proudly. In Michigan in '61 she took the State Flint Championship, in '64 the State Field, in '67 the Flint for the second time. In that same year she gathered in the State PAA Indoor. Evelyn was selected Michigan Archer of the Year in 1966 the same year in Point Pleasant, West Virginia that she quivered the National Field Championship. To drop back to 1964 for just a moment, that year Mrs. Goodrich notched the NFAA Great Lakes Sectional. Her record as a professional is even more impressive. 1965 brought a second place finish at the American Indoor, 1967 produced the same. But that same year, in one of the most impressive wins of her career, Evelyn won the PAA Championship in Pasadena, California. The Vegas shoot also produced a second in that memorable year. She has continued to rank on top or very close to it over her entire career.

Bruce Goodrich is part owner, and archery season manager of Silver Springs hunting camp. The camp rests in some of the finest hunting country in lower Michigan. As things would have it, husband Bruce turned Evelyn toward archery. The year was 1958, the bow a Bear Cub. After two months of practice Eve took a six point buck, with her bow. This started a hunting competition only a man and wife can know. Bruce now ranks high on the totem with 10 bow killed deer. The Mrs. is not far behind, with 8 deer to her credit. When bowhunting is discussed in Michigan, tracking is discussed as well. The Goodrichs are known far and wide as some of the finest trackers in the state.

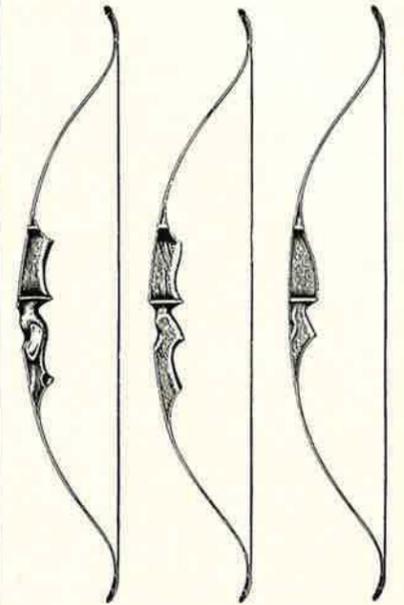
In 1966 Evelyn became a member of the Bear Shooting Staff, in 1969 she remains with the same company as a Member of their Advisory Staff. This then is the reason why the Little Cub holds such a high place in the Goodrich tophy room.

Daughter Bruceen has gathered a few national archery titles in her own right. In July of this year, the youthful Mr. and Mrs. Goodrich will become grandparents. With these people, archery like life calls for a family team. Both Bruce and Eve have been PAA members since 1962.

Evelyn likes music, loves to dance, and also plays the piano, but only privately. The easy going homemaker and gentle mother lives each day to the fullest. Eve loves to spend time in the kitchen as well. Archery could well have a rival, in fact it does. Evelyn finds much peace and pleasure in her yard. With its many flowers and trees, Eve relaxes while partaking in their care. With her love of growing things, arrows may sometimes spend the night completely overlooked in the practice bale. Her bow likewise has spent many an afternoon in the flower garden. Evelyn's thoughts on flowers relate to her thoughts on life, "He who plants a garden, plants happiness."

Evelyn Goodrich is one of the most concerned, aware members in the Association. Her quiet voice, warm smile and pleasant demeanor make it a joy to make her acquaintance. Look forward to it! Her story could not be complete without the mention of her coach, Les Brown. Together they have provided lasting results of a perfect coach-student relationship. Eve and Bruce Goodrich, Les Brown, the entire outfit, a living tribute to Professionalism Personified.

FREE CATALOG



Send for our FREE Wholesale Catalog. Bows, Arrows, Fletching tools, Shafts, Points, Nocks, Quivers, Clothing Kits, The Finest in Archery plus Guns; Reloading Tools; Fishing Rods, Reels, Tackle Components; Boats; Snow and Water Skis. Over 350 Pages.

FINNYSPOrts

9067 Sports Bldg. Toledo, Ohio 43614

STAGHORN

Manufacturers of the revolutionary tournament bows with the Dual-Wedge limbs—an entirely new concept in tournament bows. We have always extended every effort to make our complete line of bows the finest available. We have five standard series for hunting and tournament with lengths and styles to suit everyone. Lifetime guarantee.

STAGHORN Archery Co., Inc.

"Since 1951"

Merrill, Wisconsin

Tanglehead

The next time you
go bowhunting, look
over your shoulder.
He may be watching you



by Marion R. James

Old Joe Webb died last week. I thought maybe you knew him because lots of archers did. He was one of the real oldtimers and most everybody he knew liked him. That was the way he was.

Like I said, he'd been around a long time. Taught lots of young people the finer points of the sport. Taught me one bowhunting lesson I'll never forget. I thought I might pass it along now as kind of a tribute to Old Joe. I think he might have liked that.

He wasn't very much to look at on the hoof. He had this shock of white hair ever since I knew him and a weathered face that looked like a piece of leather left out in the sun and rain too long. A few said he was part Indian but I don't know that to be a fact. No one knew for sure how old he was either, but he'd met Dr. Pope and Art Young. I know that to be true because he told me. Some said he even knew Maurice and Will Thompson but I can't swear to that.

Anyway, each fall when the leaves turned and deer season rolled around and the guys in my area were scouting the ridges and building their blinds, Old Joe would start getting the itch just like us "youngsters." That was his name for us. Now he didn't hunt much himself anymore, but he still liked to hobble around camp taking pictures with this battered old camera of his. At night he'd sit close to the fire, spinning yarns and offering advice.

I guess I was pretty fiesty in those days. I hadn't hunted much but I could group my arrows with the best of them. Two years earlier I didn't know fistmele from a cock feather, but I had learned fast. When that bow bug bites, it causes quite an itch. You know what I mean.

There was this one old mossback buck in our area all the guys called "Tanglehead." He was one of those nontypical bucks with a freak set of horns that every hunter in the state would like to see in his sight window. Not many white men and darn few Indians had ever laid eyes on him and some fellows thought he was only a legend. Old Joe said different.

"Tanglehead's flesh and blood all right," he told me one early fall afternoon as I sat in the club's cabin honing my broadheads to a hair-shaving edge. "Spirits don't grow antlers like that ol' ridgerunner wears."

"And I suppose you've seen him yourself?" I asked, testing an edge with my thumb.

"Course I've seen him," Old Joe snorted, "and he's a nice buck for a fact. Be tougher'n the sole of your hunting boot but a deer his size don't get there by being stupid. No hunter's likely to need worry 'bout how to cook him."

"Oh, no?" I asked.

"Nope," he grunted, "especially no wet-back-o'-the-ears bowman ain't ever been blooded yet."

"I wouldn't bet on that," I challenged. "I haven't been up scouting those ridges for the past month and a half for my exercise. I got me a tree blind built and opening day Tanglehead's going to walk past and — zap!" I mimed bringing a bow to full draw, holding and releasing. "I'm going to be the envy of every bowman in the state."

Old Joe snorted again. "I don't know why I fool with you," he said, tugging at an ear lobe. "Maybe it's cause you need to be taught a lesson in respect for your elders — both the two-legged and four-legged variety."

Oh, I respected Old Joe all right. Everybody did. I just liked to kid him and listen to him grumbling to himself. I have an idea he wouldn't have had it any other way. And because I respected him, I asked him to take a look at my blind that same afternoon. He snorted and muttered around the way I knew he would — and then he agreed.

I drove us out to where the ridge road petered out at the edge of a rye field and parked beside the big lightning-killed oak. We always camp in the pines below the road and walk up to our stands. Old Joe and I took our time, following an old grown over fire trail up to where a natural saddle formed a gap in the high rock ledge that ran for miles just below the ridge top.

"There it is," I said at last, pointing to the platform nailed high between two shagbark hickories. It was carefully camouflaged with burlap and netting.

Old Joe squinted up and studied the blind. He walked around then, eyeballing it like an art critic does a painting. I watched him scowling and screwing up his face and I knew he was satisfied.

"I got it figured this way," I told him, "when the
(Continued on Page 38)

we ship z-z-z-zip!

- 95% of all orders shipped same day
- complete wholesale archery stock
- transportation allowance
- volume discounts



DEALERS! WRITE FOR CATALOG

Seattle Archery, Inc.

DISTRIBUTORS AND MANUFACTURERS
Edmonds, Wash. 98020 Area Code 206 PRospect 6-3129

High Precision High Quality Bow Laminations

We maintain a large stock of Finished Air Dried, Edge Grain, popular sizes of Laminations so that orders can be filled promptly.

We can supply Bow Backing & Facing, colorful woods, glue — in fact, all of your Bowmaking materials.

The Old Master Crafters Co. 130 Lebaron St., Waukegan, Ill.

Write for price list.

ACME WOOD PRODUCTS CO.

ALL NEW "Acme Glass"
* FIBERGLASS ARROW SHAFT

STRAIGHTER — STRONGER
FOR
BETTER ACCURACY — DEEPER PENETRATION

TRY THE ALL NEW "Acme Glass"



Price List on Wood and Glass Shafts on Request
Manufacturers of Fine Wood Shafts

The Finest Available Today!

* Manufactured by Columbia Products Co.

TANGLEHEAD—

(Continued from Page 37)

season opens next Saturday I'll be up there when all the other hunters are in the pines down below. When the deer get stirred up they're going to try to get away from all that man-smell and commotion. Old Tanglehead will make a bee-line for this saddle and I'll be waiting."

"Not too bad," Old Joe muttered at last, then quickly added, "for a beginner, I mean."

I was surprised. That was as close to a compliment as I'd ever heard him make. I thought maybe his old age was finally getting to him, making him soft in the head. But it only took him a moment to recover.

"It takes a heap more'n a good spot to guarantee hanging up a buck like Tanglehead," he said, snorting and tugging at his ear lobe again. "You'll wake up one of these days and realize good hunters ain't born overnight; they're made over the years."

I didn't think much about that at the time but later, on opening day as I waited in the tree blind, his words came back to me. The sun was three hours high in a deep October sky. Only the birds and squirrels had disturbed the quiet of the long morning. I had left camp in the cold darkness an hour before the first gray stains of light appeared over the ridge east of the tents. Old Joe and the others from the club were still in their sleeping bags as I shivered into my clothes, strung my bow and began my long hike up the ridge.

Now, hours later, I had almost decided Old Joe was right.

I stood up in the blind and stretched my cramped muscles. My 50-pound hunting bow hung on a nail I'd driven for that purpose within easy reach. It didn't look as if I'd get a chance to use it this morning.

I had almost decided to call it quits when a movement in the trees below caught my eye. Something — a deer, another hunter — had crossed a sun-splotched clearing down the run. I reached for my bow just in case.

Long moments passed. Nothing stirred as I strained to see through the overhanging leaves. There was something there. I knew there was. And then Tanglehead stepped forward and began walking slowly up the run toward me!

There was no mistaking that deer. Even at a distance his massive, twisted rack gave him away. The sight of him took my breath.

Twice the big deer stopped and turned to look down his backtrail. It seemed to take an eternity for him to move within bow range. My hands began to tremble as I watched and waited. He would pass within a dozen yards and at that

distance I couldn't miss. It would be an easy shot. Tanglehead was mine!

He stopped again just to my left, partially hidden by a thick-trunked oak. As he did, I brought my bow to full draw. In another instant Tanglehead would step forward and I was ready. He was so close I could see his wet-black nostrils working as he tested the breeze.

My bow arm felt rubbery. The deer would have to move very soon or I would have to ease off my draw. I couldn't hold it much longer.

With a loud *whoosh*, Tanglehead whirled and bounded down the ridge in great flag-waving bounds. In an instant he was gone, leaving me feeling foolish and alone. Trembling, I laid my bow aside and sat down. Only then did I notice the breeze had shifted sometime during the morning and was now quartering from my blind down the ridge. Angry with myself, I threw my hat to the ground and climbed down.

"He was that close," I lamented, pointing to a lantern hanging beneath the canvas cooking fly a dozen yards away. "That close."

Old Joe snorted. "Don't mean a thing. Hunting's about ninety-five per cent luck and five per cent skill. Pure blind luck'll get a deer close but a man has to exert a little effort to hang venison on the meat pole."

"And I suppose it was all luck that made me build my blind where I did?" I challenged.

"Course not," he snapped. "That took some thought and a hunter can help to make his own luck. You did and that shows you got some promise. Some day, a long ways in the future, you'll understand that there's a whole heap of difference between being a bowhunter and just being some fellow who walks around in the woods carrying a bow and arrow."

"And I suppose you could've done better?"

Old Joe just stared at me like that last question didn't deserve an answer. He tugged at his ear, shook his head and walked away.

I thought I'd made Old Joe mad at me for sure. The rest of the week he stuck pretty close to the others. He'd spend the day puttering around camp or off to himself in the woods somewhere with his camera. By week's end only two of the guys from the club had scored. I wasn't one of them and Tanglehead wasn't one of the deer tagged.

Late in the season I took my first buck, a fat six-pointer. The deer came down the ridge one crisp evening just before dark, picking his way gingerly through the fallen leaves. This time the wind was right and I shot him as he passed below me.

The next morning Old Joe surprised me by stopping by the house to look over my buck. We

walked to the garage where I had hung the deer to cool. He acted as if nothing was wrong and I was so relieved I wasn't about to say anything about it.

"Nice buck, huh?" I asked.

"Fair," Old Joe muttered, "but it ain't Tanglehead."

"Okay," I conceded, "it's not Tanglehead. But it's not bad for a beginner."

"For a beginner it's a right nice buck," he agreed, smiling and offering me his hand.

Before he left, he fished an envelope from his shirt pocket and handed it to me. "Here's some pictures I took that first week in camp. Thought you might want to look at them."

"Thanks," I said. "Thanks for everything."

After Old Joe left I glanced through the snapshots. Most were pictures of camp and the hunters. One immediately caught my eye. It was a picture of a deer standing broadside looking directly into the camera lens. It stood poised for instant flight, one front leg raised. The great twisted antlers could only belong to one buck.

Like I told you in the beginning, Old Joe's gone for good now. I've got a lot of memories though — memories and one picture of a buck called Tanglehead.

ANNOUNCING THE
1st MAJOR BREAKTHROUGH
IN ARCHERY
Since Fiberglass For Laminated Bows



3 SIZES—RIGHT OR LEFT HAND
ONE MADE TO FIT YOUR HAND

THE WILSON
(BLACK WIDOW)
"STRAP-TAB"
PATENTS PENDING



MODEL A WITH CHIN-REST



MODEL B WITH CHEEK-REST

Available from your Dealer
or write

Wilson Brothers Mfg. Co.
Rt. 8, Box 33H — Dept. A
Springfield, Mo. 65804
Phone Area Code 417-883-3235

—A REVOLUTION IN RELEASING—

Only \$9.95

What Does Strap-Tab Mean For You?

- EASE OF RELEASE YOU'VE NEVER KNOWN
- HIGHER SCORES FOR EVERY ARCHER
- Instinctive—Free Style
- HUNTERS— MORE GAME—NO MORE MISSES BECAUSE OF BAD RELEASE
- TRY IT FOR ONE HOUR— YOU'LL NEVER GO BACK
- NO MORE SORE FINGERS
- NO MORE FINGER PINCH
- ARROW SPINE LESS CRITICAL
- MORE SIGHT ROOM

FAMOUS FRYE BOOTS-By Mail
FOR ON-THE-GO MALES
#9119, Light sand color, rough-out.
#9120, Cherry brown, water proofed.
#655, Bright-shine, black.
9 inch. Fine cowhide. Durable.
\$18.95, Postpaid.
Men's, 6-13, A thru EE.
WRITE FOR FREE CATALOG
Todd's-8 AW, 5 S. Wabash, Chicago, Ill. 60603

NEW 1969 DELUXE KWIKEE KWIVER
light, compact, durable
streamlined—
good-looking on bow

- Permanently attached spring wire clip. • New propylene reinforcement plates guaranteed against breakage. • Riveted construction—strength without bulk.
- New G-3380 cores grip arrows firmly yet permit easy removal.
- Serrated bulldog grip on bow limbs.



Still only \$3.50 at better dealers everywhere. Snip—snap—on or off bow in a second.



KWIKEE SILENCER—
Better than ever. 20% more sound absorption than any other silencer. Game will not flinch or jump at string twang. 90¢ per pr.

KWIKEE KWIVER "the quality line"

KWIKEE KWIVER CO./7292 Peachtree Valley Road/Acme, Michigan

LOOK!

MINI VANES
Try our new short, fat Minnies.
Requests by top archers have prompted us to produce this new clover leaf design. It is 1 3/4" long (45 m.m.) and the same height as our P-22's. Available only in Flu. Orange, Flu. Green, Flu. Ruby.
\$4.00 per 100 postpaid (U.S.)
or
See your dealer.

PLASTIFLETCH

MAX HAMILTON
701 Zuni Dr. Flagstaff, Ariz. 86001

If you know all you need to know about aiming then you're already shooting 300.

"POWER ARCHERY"
Second Edition

If not—send for Dave Keaggy's book Mail check or money order for \$1.95 from U. S. A. and \$2.25 from Canada or Foreign to:

Power Archery Products
3807 Aquarina
Drayton Plains, Michigan 48020

SEND FOR **FREE CATALOG**
"EVERYTHING FOR ARCHERS & ARCHERY"

- ALL MAJOR ARCHERY LINES
- CROSS BOWS • SLING SHOTS • WHIPS
- FENCING EQUIPMENT
- HANDMADE KNIVES • DRAPER, HIBBEN, ETC.
- DECORATIVE SWORDS AND ARMOUR

DEERCLIFF ARCHERY SUPPLIES
1114 WEST PEACHTREE ST. N.W., ATLANTA, GA. 30309

Fine Tuning Your Bow

by

Max Hamilton

I believe that *tuning a bow* is simply the attainment of the best *arrow flight possible*.

There are 4 important basic steps in achieving this:

1. The Bare Shaft Test.

(Some of the following has been mentioned before but it bears repeating because your arrows *must* come out of the bow straight or reasonably so.) Shoot some arrows *without* fletching into the target at a distance of about 10 feet. If they enter with the nock end high, lower the nocking point. If the nock end is low, raise it. You must use a bare shaft since fletching, whatever kind, can bounce off the bow and give you a false impression. A dirt bank is better than a target as the shaft might follow the direction of a tight straw pack.

2. Establish Center Shot.

Place an arrow on the string in position. Lean the bow against a chair and back off a few feet. Now shut one eye and align the string down the center of the limbs. Does the string divide the arrow clear to the point? Move the pressure point in or out until it does. Your setup is now true center shot.

3. Adjust Pressure Point.

Now shoot some more shafts and see if they go in straight horizontally. They should not be very far off. If the nock end is to the right move the pressure

point in. If it is to the left, bring it out. Only a slight adjustment here should straighten the arrow nicely. However, there are some archers who must have the arrow point a little to the left of the string, or to the right. (Remember that the arrow is vibrating rapidly in a horizontal plane for the first few yards of travel. Usually this does not show up in the target, but some arrows have a big vibration and give a different answer when the archer moves forward or back about 18 inches. This does not mean that his arrows fly poorly. It is a balanced vibration. If you stand near the line of flight you can hear this arrow ring. This seems to be associated with a hard pressure point.) Now, assuming that your shafts are entering straight, shoot a few more arrows *with* fletching from the same distance. If they still enter straight, you've got it made.

4. Check Using Fletching.

If they *don't* go in straight, it's positive proof your fletching is slapping the bow. In which case you probably are using the wrong spined arrows. But before you borrow your buddy's arrows, experiment with your hand position on the bow (left and right, not up and down.) Also check your arrow nocks for too tight a fit on the string. A depressable pressure point usually makes No. 3 much easier. Also when using a strap type release the nocking point is about all you have to worry about.

No matter how well you are shooting you should do the bare shaft thing occasionally, especially if you change string or any other part of your tackle. Be patient when tuning your tackle. Don't expect a new bow and new arrows to be already tuned to your shooting.

After an archer reaches a certain stage of proficiency, say

about 520 filed and 770 American (old scoring on both) his tackle tune up may be the difference between winning a big shoot or congratulating the guy who does. He may be shooting as good as his tackle will allow him.

There is absolutely no substitute for a good coach and champions are made by those who have one. Equally important is natural ability and well tuned tackle. A top archer knows better than anyone why he shot bad arrow or a good one. It's when he *doesn't* know; that's when he especially needs professional help.

Although I have stressed perfect flight, there is little if any penalty to a small flip of the arrow when using vanes as long as it is consistent, and provided it is not caused by the fletching slapping the bow. You can prove this by checking your grouping.

Please bear in mind that all this pertains to target or field tackle only. It does *not* pertain to hunting bows, glass or wooden arrows. It may not apply to feather fletch as I have not used feathers for many years. Also I can not say that the center shot idea will work for all target bows because I obviously can not try them all. But I will say that it has worked for me and all my friends plus the present State target and field Champions both men and women in both Pro and Amateur divisions in Arizona.

In the final analysis the important thing is to find out what works best for you. This can only be done by a little experimenting on your part. Cut out these four important steps in bow tuning and keep them with you. I'm sure that sooner or later you will be able to help someone who is having tackle problems. Like maybe yourself.

KNOCK DOWN POWER That No Other Bow Can Approach!



Due to 50% more speed and penetration of his **ALLEN Compound Bow**, Phil Mascara, Ivyland, Pennsylvania, shot arrow thru spike buck, front to rear. Bow at 46 lbs. Distance 23 yards.

Compound Bow outshot
recurses nearly twice it's weight
at NBHF shoot!

Order Now for assured delivery
Write today for literature and
information on models and prices

ALLEN ARCHERY DIVISION
805-A Lindberg Drive
Billings, Missouri 65610
Telephone - 417 744-2925

COLORADO
Deer and Elk Hunts
Bow Hunting at its BEST, on over
18,000 acres of private land.
NOW BOOKING
Bow Season opens August 16, 1969
Regular Season opens October 18, 1969
Write for more details and special
group rates.
Jim Squirrel, Outfitter
Bonded and Licensed
Jack Cassidy, Guide
2539 G 1/2 Road
Grand Junction, Colorado 81501
Phone 303 242-4443

MR. DEALER
are you interested in fast service on a full line of quality archery tackle?

Write Us Today
for your copy of our wholesale catalog. Please inquire on your business letterhead to:

NIRK ARCHERY COMPANY
Dept. A-W
Route 1, Box 80—Pocatello, Idaho 83855

Dave Keaggy, Sr. Talks About

Mental discipline is the indispensable element governing the control of the technique of proper employment of all shooting fundamentals. The distinguishing feature of successful competitive shooting is that it is associated with overcoming obstacles which require great exertion of all a person's mental capacity in order to force himself to overcome these obstacles. Therefore a shooter must make determined efforts to acquire qualities of strong will: steadiness, resolute ness, endurance, and discipline. An archer must learn to fight fatigue and hardship and to bear up under stress for long periods of time, forcing himself to shoot on until the end without letting his score fall off, by the effort of his will. By determined effort, he must maintain his emotional equilibrium, if he makes a poor shot, he must not give way to disgust and irritation, but take himself in hand and bring up his performance by exertion of intestinal fortitude. The ability to keep control of one's self,

Mental

to force one's self to overcome difficulties and to maintain presence of mind in any difficult situation is a necessary quality. Without this resource, an archer will not achieve good competitive form nor make high scores in any competition. Along with mental discipline, an archer must have high moral qualities; a sense of duty and responsibility to the group, a sense of loyalty to his team-mates, (when shooting with a team) and a sense of honor. In difficult moments of a tense showdown, these qualities help the shooter to mobilize all his resources for victory. That is why experienced professional coaches give so much attention to instilling high moral and disciplinary qualities in their archery students. No person is born with these moral and disciplinary qualities which are so necessary for overcoming the many difficulties with which he must contend in tournaments. They are partially developed in the course of the archer's life and the activities of daily living of each individual. Training therefore should be

conducted so as to provide not only for the technical improvement of an archer, but should also provide for the strengthening of his willpower so that he may force himself to train with persistence and to keep himself under control during competition.

A. Essential

(1) Mental control has become essential to advanced archers because mastery of the physical skills alone does not provide the uniform, precise control of performance necessary to compete at the highest level. Too little emphasis is placed on how and what to think. The capacity for intense concentration will provide for exacting control of the coordination of the essential factors necessary for the delivery of an accurate shot on the target.

(2) Mental discipline provides the grasp the archer must have of his mental facilities to maintain his confidence, positive thinking, and

Discipline

Reprinted from Dave's
newly revised "Power Archery"

thereby, the ability to duplicate a successful performance. It further provides continued interest which is stimulated by the desire to improve and the ability to channel sustained mental effort. It will help to control thought and action and avoid over-confidence, pessimism and exposure to conditions that will disrupt his mental tranquility.

(3) Mental discipline provides the emotional-stability so necessary to the development of the champion archer. Confidence in his ability and mastery of the basic skills combined to produce a dependable performance, under all degrees of stress.

(4) The self control attained by the advanced archer pays off not only in better scores but also under high stress conditions. Through calmness and resolution, he can continue to shoot with a very confident attitude.

B. DEVELOPING MENTAL DISCIPLINE AND CONFIDENCE

The continuously repeated, successful execution of a step-by-step, completely planned approach to the firing of each arrow, results in the gradual development of a mental discipline. The proper degree of mental discipline restricts the thoughts and actions during shooting to an established pattern from which there will be few deviations. Adapt a positive attitude and make up your mind how you are going to fire the arrow. Psychologists have determined that there are four basic methods of responding to a problem. Two methods are positive and classified as either direct or indirect. Two methods are negative, classified as either retreat or evasion.

(1) Positive Response to a Problem

(A) The direct, positive approach.

This is a self-confident, self-sufficient, direct, positive attack that realistically faces the facts, analyses them, identifies the obstacles to a successful solution and proceeds to grapple tenaciously with them until the solution is found. You know what you want to accomplish and you take direct steps to attain it.

(B) The indirect, substitute or compromise approach.

Small, diffident, tentative, indirect action in which sidestepping leads to seeking short-cuts and when the probable solution is tried, there is much fervent hoping that the fates are on your side. You are only hinting and probing instead of stating definitely what you need to do.

2. NEGATIVE RESPONSE TO A PROBLEM

(A) The negative Retreat.

The failure to give the honest try to see what you are capable of accomplishing. Surrendering without an honest attempt. The flight habit can become chronic. This is the man that cannot accept the responsibility for a mistake or failure. A bad shot produces excuses.

(B) Evading the issue.

Evasion is the lack of incentive. Why, is the approach. Why do I have to do better than anybody else? If the desire to excel is not there, you will never aimlessly or otherwise achieve the degree of accomplishment that crowns the champions.

3. ANALYSE THE PROBLEM

Psychologists have discovered that one of the chief reasons for difficulty in the solution of problems is inability to soundly analyse the problem. Pose a clear-cut plan of action in full array, facing the specific difficulties, and where faced with a particular difficulty, make a determined effort to break it down. Once the problem is identified, there is generally a solution.

(Continued on Page 44)



KING
scores
a
bullseye
with
MODEL #412

Rangemaster Quiver for field or target archery. Wide, firm belt loop holds quiver at proper angle. Pencil pocket. Large zipper pocket 8 x 4 x 1 3/4 with new score card pocket. Divider strap for 2 divisions. Length 20". 4 x 2 top opening. Bottom 3 1/2 x 1 3/4. Holds 12 arrows easily. Specify right or left hand. Black only.

MODEL #415 For ladies. Same style and construction as #412 only 2" shorter and all white.

MODEL #700 1 1/4" matching contour belts for above quivers with garrison-style buckles.

Write for prices and new brochure to:
KING SPORT-LINE CO.
210 W. Del Mar, Pasadena, Calif. 91105



TEELA-WOOKET ARCHERY CAMP
Vacation Camp Riding Camp
ROXBURY, VERMONT
June 14-27 Aug. 26-Sept. 4

Ideal Vacationing For Adults and Families in the Heart of the Green Mountains Instructors Courses, Workshops in Target, Field Archery, Riding

Reasonable rates, superb food, tennis, dancing, golf, etc.
For Complete Brochure, Write:
MR. AND MRS. E. B. MILLER
67-A Old Stone Church Rd., Upper Saddle River, N. J.

GIANT CATALOG



Send \$1 for our giant 140 page catalog. Money refunded on first order. Dealers no charge. Order from one of the nations leading archery distributors. Order all your archery needs from one source.

Feline Archery
RD 1, Greensburg, Pa. (412) TE 4-5281

MENTAL DISCIPLINE—

(Continued from Page 43)

Discuss your shooting problems openly with other archers. A communal pondering session will break it wide open. There is a four point system of analysing and solving specific problems. It reduces the whole big problem to many specific small ones. Head four columns on a sheet of paper with the titles: (1) "Steps Necessary," — to shoot an Accurate Shot, (2) "Specific Difficulties" — In Performing Each Step Of the Shot Plan; (3) "Successful Solutions", — to each of these steps that are being performed satisfactorily; (4) "Degrees Of Success", — with those difficult steps that aren't working out too well.

The positive action approach requires that we be specific, that we have a definite plan, that we support the plan by consistent use of each step of the plan, that we be persistent in the face of difficulty in execution of any steps of the plan, and finally that we be on guard against compromise and negative thoughts. The positive approach to overcoming obstacles in our ability to exert mental control over our actions can become automatic. The power of positive thinking leads to confidence.

4. CONFIDENCE RESULTS ALSO FROM REPEATEDLY BRINGING UNDER CONTROL ALL THE FACTORS THAT CREATE CONDITIONS FOR AN ACCURATE SHOT.

An accurate shot is one that hits the target within the shooter's ability to hold. People have been telling you for years that you must have confidence to shoot well. Confidence in what? How do we get it? How do we keep it?

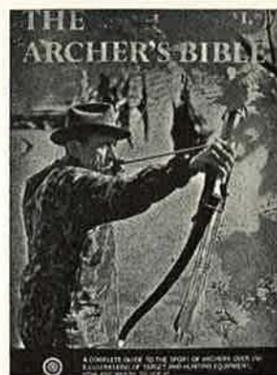
First and foremost you must have confidence in the fundamentals of advanced archery techniques that you use. You must be convinced that if you control their employment correctly, you will achieve excellent results.

Nothing could be more undermining than to attempt any task with wishy-washy ideas about how to accomplish it. You must believe, and preferably prove to yourself, for example, that sight alignment is vastly more important than sight picture. You must also believe that the techniques developed of the fundamentals that you have proven sound and dependable by experience are not going to change suddenly to unreliable factors because of tournament pressure.

Confidence in Yourself and Your Ability To Execute These Proven Fundamentals Correctly.

You have proven your degrees of ability to do this in your practice sessions. Go ahead and do it in a tournament. To the timid and hesitating, everything is impossible, because it seems so.

SPECIAL OFFER



\$ SAVE \$1.20

GET FRED BEAR'S NEW BOOK

The Archer's Bible

(160 pages of practical archery know how)

AND

ONE YEAR SUBSCRIPTION TO

Archery World

BOTH FOR ONLY

\$5.75

YOU SAVE \$1.20

\$1.95 "The Archers Bible"

\$5.00 1 Year Subscription to
ARCHERY WORLD

\$6.95 Regular Price

If you haven't read "The Archer's Bible," you should. You'll be a better shooter—know more about archery—be a better sportsman.

start my subscription and send me "The Archer's Bible"

renew my subscription and send me The Archer's Bible

Enclosed is check money order for \$5.75

Name _____

Street _____

Town _____ State _____ Zip _____

Send to: ARCHERY WORLD
P.O. Box 124, Boyertown, Pa. 19512
Penna. residents add \$.05 State Sales Tax

Think Big, Think Positive, "I will do it," and you will succeed. However, as soon as you admit the slightest possibility of failure, so long as there is an influence in your mind that is preventing you from putting all your energies into your task, your success is questionable.

It has been said innumerable times that an archer must have an open mind, implying that we must have the ability to accept new ideas. What we should also strive for is the mind that is open to positive thoughts and completely closed to those of negative vein. You have heard so many times, "don't jerk the string." True as this axiom may be, it is of no advantage to have this thought enter your mind when you are trying to shoot a good arrow, for it is negative, it implies failure, it continually occupies your efforts with something you don't want to do rather than something you should do. Would it not be more advantageous to think — "I must apply pressure firmly to my draw shoulder, evenly and straight to the rear so as not to disrupt my sight picture, for when I do this, I will get a good shot". This is the positive side of the picture; it implies success, and gives you something that you should do rather than something you should not do.

'What we are striving for is a mind so full of positive "do's" and "wills" that there is no room for those distracting "don'ts" and "can'ts". However, just thinking positively is not enough; we must have definite ideas on how we are going to employ these positive thoughts. There is no room for vagueness or vacillation. This of course brings us right back to having confidence in our ability to apply the basic fundamentals of shooting the bow.

A confident attitude adversely affects your competitors. An archery match is generally conceded to a small number of confident individuals who expect to win.

Smile, give no comfort to your competition by revealing by word or act that anything is wrong that might affect the normal, favorable outcome of the tournament.

5. CHANNELLED MENTAL EFFORTS RESIST THE TENDENCY OF THE MIND TO DRIFT DURING THE PERIOD WHEN INTENSE CONCENTRATION ON SIGHT ALIGNMENT IS ESSENTIAL.

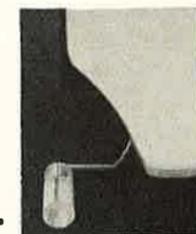
(a) Channel mental effort relentlessly toward the final act, develop a high degree of concentration on sight alignment and the release when ready.

(b) Complete exclusion of extraneous thoughts for a brief period (4-8 seconds is necessary for

(Continued on Page 46)

ALIGN-⊕-METER

IT'S NEW!
IT'S ACCURATE!
IT'S PRACTICAL!



Bow torque indicator.
Accurate alignment reference.

\$5.95

Ala. add 4% sales tax
ALIGN-O-METER can be used as: (1) a training aid by any archer, (2) a precision alignment reference, (3) a bow torque indicator and (4) a reference for positioning the bow and head relative to the target prior to draw, thereby, reducing body movements after beginning of draw. It is not necessary to change your form to use ALIGN-O-METER. Adjust it for maximum sensitivity and proper alignment to suit your form. One position of ALIGN-O-METER is suitable for all targets. ALIGN-O-METER can be mounted above or below the arrow rest. Removable, needs no readjustment.

Write direct to:

The AARL
ALIGN-O-METER
213 Wingate Ave., S.W.
Huntsville, Alabama 35801

pat. pend.

DEER & ELK

Hunt both from cabin in Routt Nat'l Forest. Satisfaction guaranteed. No crowding. Seven-day archery \$250. Licensed and bonded. References.

Ken Jett

Ph. (303) 824-3233

Craig, Colo. 81625



SPECIAL FISHPOINT OFFER—3 for \$1.00

Tri-barbed, Needlepointed, Zinc Plated
Shaft Sizes 1/4", 5/16", 11/32", & 5° Tapers
Mailed Postpaid, American Made, No C.O.D.'s

DEALERS INQUIRIES INVITED
Mail Return Address (Zip), Size, & \$1.00 to

Fla. residents add 4% tax

— FISHPOINTS —

P.O. BOX 391

ELFERS, FLA. 33531

MENTAL DISCIPLINE—

(Continued from Page 45)

controlled delivery of the shot).

(c) Prior planning of the "sequence of action" is necessary to deliver a controlled arrow and gradually enables the shooter to sustain concentration for a long period.

(d) Careful planning of a "sequence of events" closes the mind to other thoughts. Keep your mind busy on the "sequence of events" that controls your shooting and affords you greatest concentration. All details of good form must be developed in one controlled sequence of events without interruption.

(e) Coordination of thought and action is the result of experience obtained through extensive practice and tournament shooting where the same satisfactory plan of action is followed repeatedly.

(f) Precise coordination is absolutely necessary in controlling the delivery of a single arrow or a complete end or a complete round.

(g) Split second coordination of the release is maintained by frequent practice and when the practice time is limited to less than sufficient, do not be over-confident and expect to be able to sustain your coordination completely through prolonged tournament shooting conditions. You must operate efficiently and save your energy.

Why can't you be a winner?

The danger of negative thinking.

Who won the last tournament in which you participated? If you didn't win, why? To achieve results on a level that will produce winning scores in today's competition, it is necessary to have a coordinated, exacting control of the shooting fundamentals based on the capability for intense concentration. Each properly executed sequence of action that creates conditions for a good shot, contributes to the ease with which it can be repeated.

Why is it so difficult to shoot championship scores? It's not because we haven't been taught the fundamentals of good shooting. Generally it's because we open our minds to thousands of negative reasons why we cannot shoot good scores. Bad weather, rain, cold, sun, wind. Inefficient range conditions. Below standard equipment. Lack of Incentive. Competition too tough. Afraid to win. Carelessness. Over confidence. Pessimism.

There are probably numerous other factors but these are a few that were pointed out by top level archers. We know that we must exclude factors that detract from good performance and use those remaining factors to our advantage.

When the weather is bad it is simple to say "it's raining, snowing, the wind is blowing, and all of the scores are going to be bad". This may be a true assumption, and you can follow this vein of thought throughout the tournament but you probably will continue to shoot just average scores as compared to your competition.

Why not think and convince yourself that good scores have been shot under the same bad conditions and that positive application of the fundamentals has produced good results in spite of such difficulties? If your thoughts are directed strongly enough toward planning and executing a "controlled performance," you will not have to think of the weather.

Have you ever asked yourself, "why do I have to shoot exceptional scores?" The answer to this question will naturally vary with each archer. You must be motivated to constantly improve your performance or else you should change to a less demanding endeavor. The most common excuse for not trying your best is the lack of incentive because there is no competition. A tendency to drift aimlessly through a tournament becomes a habit through constant repetition to the extent that you tolerate a sub-standard performance without being alarmed. The point here is, regardless of the competitive ability present for this particular tournament, you must be on guard against relaxation of your determination to employ the fundamentals to the utmost of your ability. You must retain the desire to win and set new records all the time. Failure in this area too often will cause a decline into a habit of treating your shooting as a week-end lark.

How often have you beaten yourself by allowing yourself to think that the cause of your poor performance was due to poor equipment? Or thought that the competitors who beat you had better tackle than you? How can you keep such thoughts as these from entering your mind? The main components necessary to shoot championship scores, are an accurate bow, straight arrows, and an individual with the ability (physical and mental) and desire to shoot. Therefore, before you ever let your bow beat you, or you have any doubts about its ability, ask some other top archer to shoot your bow to prove to yourself that the bow is accurate. Once you have determined that the bow is accurate then all you have to do is think that the only thing you need is the confidence and mental control to aim and control your shot.

"The competition is too tough". If you look closely at the individuals who seem to look like supermen, analyse a few of them, and compare

their attributes with yours, you will find in a majority of the cases that they are built just like you, have approximately the same physical ability, their hands are about the same size, etc. What then, is their thought pattern? The potential winner is thinking about applying his plan of action. He is not thinking about whether or not he will beat you. He knows that most of the other competitors are beating themselves with their own uncontrolled thoughts. You can be one step ahead of all your competition by directing your mental capabilities toward your "plan of controlled action."

There is a first time for winning in archery as in everything else. A first time for a National Champion to be beaten, and a first time for you to become a National Champion. You have never won a major championship before. Was it because you didn't have the ability or was it because you sought excuses and conceded your chance of winning? You have probably won individual tournaments but that's as far as you have allowed your mental capabilities to carry you. Now if you really want to win, you can. The best way, as previously discussed is to believe that you are as qualified to win as anyone else. Make up your mind that you have the capabilities of shooting top tournament scores. A good performance on each individual shot and each individual end will give you that opportunity to become a champion. Don't let the possibility of winning one round shatter your composure and destroy your opportunity for winning the complete tournament. Do you expect that you will inevitably commit a stupid act in every tournament you shoot, thereby forfeiting your chance of winning? Carelessness is a state of mind that overwhelms the individual who is aimless and haphazard in his approach to a challenging task. Organization of all factors that have a bearing on the task to be performed will assure that the action will be successfully executed.

Over-confidence dulls the normal responses of the individual to the impending development of unfavorable conditions that could upset the sensitive balance on which his optimum performance depends. Do not relax your determination to perform your best even if competition is not too keen and you are not worried about their performance. Strive to reach a happy medium between over-confidence and negative thinking.

Pessimism detracts one's ability to channel his concentration. Anxiety of possible failure undermines the ability to control the arrow. Impatience and uncontrolled actions are the re-

sults. A negative approach precludes the probability of repeating a uniform, satisfactory performance.

Avoid conditions which the archer knows or should know will contribute to the disruption of his tranquility and mental control. Avoid emotional upsets such as anger, worry, boasting, rumors, misinformation, and side remarks. Resist concern over your final results. Dismiss concern over the slight advantage of superior equipment, if any. Avoid adding up individual scores as a build up to the final score. Attempt to get an immediate reading on a hit from a spotter or with your own scoping of the target when possible so that you won't have a continued concern or worry in your mind. If it's a bad shot know as soon as you can and then put it out of your mind.

If you think that you and you alone have the problems of tournament pressure, look around; we all have it. The man who has never experienced tournament pressure has never been in a position to win a tournament. Where is the difference? Where is the dividing line between champion and duffer? Both may shoot comparable scores in practice, yet one is invariably at the top of the tournament list and the other is on the second page. The dividing line is clear and obvious; mental discipline. Some have learned to control their emotions and anxieties and go right ahead and perform within their capabilities. Others, even with years of experience, and also with a wealth of doubt and negative thoughts, pressure themselves out of the competition every time they step up to the firing line.

First, in our treatment of tournament pressure, we must find what causes it, for without knowing the precipitating factors, we can never combat it. *Tournament pressure is a direct result of the fear of failure and the loss of self esteem.* Are we afraid of winning? If this were the real cause, we would have no desire to win, or to perform well, and there would be no pressure. No, it is not the actual winning we are afraid of. *We are afraid of not winning.* This factor generates our fear of performing poorly and having our fellow competitors see our poor performance.

What happens to us physically when we are subjected to all of these mental gymnastics that result from pressure? First and most prominent, we shake, we forget to set our sight, we sometimes shoot on the wrong target. In short we commit a series of asinine mistakes that normally would never occur. Unfortunately, this problem has never been approached on a truly scientific basis. The main thing that will help a shooter is

(Continued on Page 48)

MENTAL DISCIPLINE—

(Continued from Page 47)

experience and practice in tournament participation against the best competition. The champions, in spite of their nervousness in tournament competition, mobilize all their energies and resources and on occasion, do even better in a tournament than in practice.

The emotional and physical upsets of competitive stress are experienced differently for various persons and the condition varies for every archer both in its character and in its intensity. However, all archers, regardless of their experience or of their self-discipline, are to some degree nervous in competition. It goes without saying, of course, that the better a shooter is trained, the more confidence he will have in himself and the less he is apt to experience a high degree of nervousness. Those shooters who have trained under conditions approximating tournament conditions and who have participated in many tournaments in the past are less nervous. At the beginning of a shooting season, even the experienced archers are somewhat more nervous, but with the difference that they do not remain passive with respect to their disturbances. They do not let themselves become a victim of them, but resist them stubbornly and force themselves to shoot without being profoundly affected. If a shooter declares that nervousness in competition is unknown to him, either he is not telling the truth, or he is completely indifferent to the interest of the group or himself. He lacks an elementary understanding of pride in doing a job well and shows indifference to the strongest, natural excitement which competition stimulates in presenting a challenge to the human animal. We normal archers add to our distress when we feel that everyone is witnessing our anxiety and stupidity. Yet with all this our counterpart, the champion, appears to be calm and enjoying himself. Let's face it, he is.

There are definite advantages to tournament pressure. Many of our senses are more acute. For our purposes, we see better, and our sense of touch is more exacting and our ability to concentrate can sometimes become greater. All of these added together should, if employed correctly, make us more exacting and consequently better our performances. However, this is not entirely true. As an example, there is no question that being able to see better is an advantage. But if we fail to recognize this for what it is and notice only that our sights are misaligned or that the size of our arc of movement of the sight has increased, this will cause hesitation in our

release making us hold too long, perhaps past the peak of steadiness. Then the visual perception of the eye is overworked to the extent that we later fail to see all our errors clearly. This can result in an arrow that is fired with incorrect sight alignment which we may think is good. What actually happens then is that the advantages of all the acute senses go down the drain with our failure to use mental control which will coordinate all factors and turn all of this to our advantage.

How do we control tournament pressure? First, realize that it can be controlled and actually used to our advantage. The champions' ability to shoot tournament scores very closely aligned with their practice scores certainly indicates that they have the mental control and their shooting technique well developed. These archers have all learned to control their thinking. So we have the first premise. Your tournament pressure can be controlled.

PRIOR MENTAL DETERMINATION

This is the great asset that we have available to us. By *thinking through* the correct procedure for firing each arrow just before you shoot, and making up your mind to do it in the correct way, you can virtually eliminate distractions in the actual execution. Be warned right now, that if you fail to do this and approach the shot without a preconceived plan of attack, or without the mental determination to be right, your result at best will be erratic. You readily appreciate the necessity for concentration on and aligning your sight properly with the target. You must continually think fundamentals and review them in your mind. Train yourself so that as many as possible of these fundamentals are executed automatically without any tedious effort on your part. When you do this, it leaves you with only the most prominent fundamentals to contend with in the actual shooting, sight alignment and release control. This will enable you to place all of your mental and physical efforts toward keeping the sight properly aligned with the target and releasing smoothly while you are in a position in the minimum arc of movement of your sight and well in line with the bulls eye.

Establish a routine. From routine comes boredom. What is boredom? The lack of excitement. What are we trying to do? Keep from becoming excited. In a more serious vein, however, in establishing a routine, you eliminate the possibility of forgetting some trivial item of preparation that may throw you off balance later if you neglect it.

Work on each shot individually. Each arrow that you shoot must be treated in an individual way for

in reality there is no reason to believe that because your first shot was a bulls eye that your next shot will be the same. Nor is it logical that if your first three shots were bulls eyes you have a guarantee that those to follow will also be bulls. Each one is merely a representation that your immediate present ability to apply the fundamentals correctly or incorrectly. Your ability to do this will vary considerably if you let it. Do not connect the arrow you are preparing to shoot with the value of those already on the target. The performance requirement demanded of you to control the arrow to be fired now is not dependent upon the value of the previous arrow or on the value of the arrow to be fired immediately after it.

Train yourself to think performance rather than score.

Employing this technique, a 4 or a 3 on the target becomes not a shot that subtracts 2 or 3 points from your aggregate, but is shot where you allowed yourself to deviate from proper employment of one of the fundamentals. Rest assured that if you do your part on the shooting line, the score will take care of itself.

Relax your mind.

Right from the time you get up in the morning. Nothing will put you in a greater state of mental agitation than to have to rush through breakfast, or rush to get to the range just in time to shoot the tournament. If this happens you've lost some points whether you realize it or not. Take it easy, shooting is fun, enjoy it.

Practice tranquility.

Ever see the guy that loses his temper every time he has a bad shot? Who is he mad at? Those individuals who lose their temper are doing nothing more than exhibiting self admonishment for their vacillation in the execution of a shot. They recognize that if they had worked a little harder on applying the control factors, the arrow would have been better. On the other hand if we do everything within our power to make the shot good and for some other reason it isn't good, we should have no cause for undue irritation. Although a good archer must exert all of his mental and physical ability toward shooting a good score, infrequently he will fail to do this. Suffice to say that when this happens, if he chastises himself severely, or falls into a fit of complete depression because of a poor score, he will hurt greatly his chance for the rest of the tournament. It is not intended that you laugh off or treat lightly a poor performance; however, you must possess the presence of mind to accept the bitter with the sweet. Preparation, planning, relaxing, delivery of the shot, careful

analysis and positive corrective measures, is a cycle of action you must force yourself to conform to without deviation. You can then be assured that the next arrow can be delivered under the most precise control you are capable of exerting at the present moment.

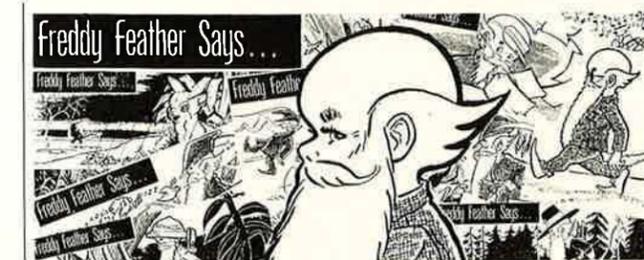
Tournament Experience.

Without question, competitive experience is one of the ingredients necessary in the making of an accomplished archer. However, experience alone is of no value. We must flavor our experience with an accurate and honest evaluation of our performance and the positive corrective measures that will raise our ability and eventually our scores. We must experience an increasing degree of mental control. It is not easy and is often left out of our training until our physical ability to shoot, outreaches our ability to exercise control when the chips are down.

A chance of greatness lies in each man's grasp. Performing at or beyond your potential will catapult you into the lead. Retain the lead by counting on your competitors' inevitable mistakes and gaps in his knowledge of controlling his shooting techniques. You must have confidence that you are capable of a performance exceeding any previous level of personal accomplishment.

Confidence

Furnish the alloy to stiffen the will to win and not give up or compromise. Confidence is based on a full grasp of the complete technique of controlling employment of the fundamentals. Confidence combined with knowledge, exacting skills, good physical conditioning, and a seething, consuming determination to win, provide the archer with an edge from which he can deliver a shattering blow to the composure of the competition. When your competitor realizes his maximum effort is falling short of that which is necessary to win, the result is no contest.



"Month after month, year after year, it is the same story . . . Bright Way ground base feathers are your best buy. They are die-shaped."

TEXAS FEATHERS INCORPORATED FIRST IN QUALITY AND RESEARCH
BOX 1118 BROWNWOOD, TEXAS 7601



85th ANNUAL NATIONAL ARCHERY CHAMPIONSHIP TOURNAMENT
Valley Forge, Pennsylvania, August 20-24, 1969

Tournament Registration Application

Divisions: Amateur Professional Free Style Bare Bow

Fees: Crossbow \$20.00 Senior Championship \$20.00 Sextuplets \$20.00

Intermediates \$12.00 Juniors \$10.00 Cadets \$8.00

The above fees include team events.

Team events only Adults \$6.00 Juniors \$3.00

Name Social Security #

Street NAA Amateur Card #

City State Zip Code

Classification: AA A B C Male Female

Advanced Registration is Mandatory, Register Before July 22, 1969

Requirements: Membership in National Archery Association

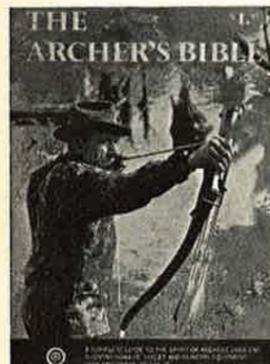
The Amateur must present N.A.A. Amateur Card

Intermediates, Juniors and Cadets shoot in Free Style Class only

Dues: Individual \$5.00. Wife and each dependent child under 18 yrs. \$1.00 each.

Individual under 18 years \$3.50

your ARCHERY WORLD book shelf



NEW—THE ARCHER'S BIBLE, by Fred Bear, 160 pages of Archery Knowhow. The most complete guide to target shooting and Bow Hunting, equipment, clubs, how to buy and use Archery tackle. Over 150 illustrations. Just released, \$1.95.

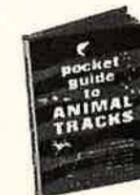


ARCHERY—No one has ever told the history of the bow and arrow and of the men who wielded them as well as the author of this classic work, first published (in the Badminton Library) in 1894, and now reprinted for the first time. The forms of bows and arrows; the performance of different ones; the techniques of drawing and loosing the arrow, including the use of thumb-rings, are all fully described in this book. The authors also discuss ancient and savage archery military archery of the Middle Ages, the English longbow and its production, handling, and effectiveness; and the records set by the historic masters of archery. \$12.00

THE NEW HUNTER'S ENCYCLOPEDIA — In 1154 pages with 2047 drawings and photos, all about game distribution, legal seasons, guns, ammunition, hunting dogs — everything man needs to know to hunt large and small game in North America. \$24.95



POCKET GUIDE TO ANIMAL TRACKS—Text and pictures identify the signatures of nature's creatures in soft ground or snow. Prints, habits, characteristics, and sketches of 44 North American big and small game. \$2.95



At long last, **POWER ARCHERY** "revised" is off the press. Here is the one book that has really excited archers—their search for better scores. 96 pages of methods, ideas, techniques and pictures. \$1.95



SKILLS FOR TAMING THE WILDS by Bradford Angier is a complete primer on what man knows about getting close to nature—the comfort-coaxing low-down on civilizing the rough country . . . on making do with little and enjoying it. \$6.95

BOWHUNTING FOR DEER offers unique, not available before, facts about whitetail deer. From precise experimentation it shows how to read and understand the trail of a deer . . . how to tell how far and how long a wounded deer will travel. You'll be pleased, too, with the clear way "Dutch" Wambold shows you right through the deer . . . the way he helps you know deer anatomy so well that, with the other tips here, you place shots constantly that make instant kills and critical wounds. \$5.95



BEING YOUR OWN WILDERNESS DOCTOR—The outdoorsman's emergency handbook for knowing what to do for typical accident-health problems when a doctor is too far away. Tells in layman language what a doctor would do, what you can do if you must, and how to avoid harmful inaction or wrong decisions. \$3.95



POCKET GUIDE TO ARCHERY by Howard T. Signer shows how to get started on bow and arrow fun—how to try it cheaply and feel at home in the sport quickly—equipment, practice methods, bowhunting, field and target shooting. \$2.95



TREES—From any observable characteristics instant identification in any season is provided with Grimm's unique keys. Fine line drawings face the descriptive text that covers variations in bark, twigs, blossoms, fruit, and buds of more than 250 trees native to the eastern U.S. and Canada. The urge to know is all that's required with this everyman's-guide to the world of trees. \$7.95

MODERN ABC'S OF BOW AND ARROW gives you basics and the latest on an old-new, year round, all ages sport—introduction, updater, refresher for greenhorns, veteran archers, bowhunters, targeteers . . . by the Archery Editor of Outdoor Life G. Howard Gillelan. The writer capsules the fundamentals, reports the latest developments, shows how to get the most fun and skill in archery all year at the least cost. \$4.95



BE EXPERT WITH MAP AND COMPASS—Indoor fun learning to find the way outdoors. Explains the facts and techniques for using maps and compass. Back-of-the-book kit contains actual training compass, practicing protractor, and color fold-out topographic map. Games, projects, quizzes for self-teaching or group use. More than 100 illustrations. \$3.95

Please send the following books:

Title	\$.
Title	\$.
Title	\$.
Pa. residents add 6% Sales Tax	\$.
Enclosed is check <input type="checkbox"/> Money order <input type="checkbox"/> for	\$.
Name		
Street		
Town	State	Zip

Send to: ARCHERY WORLD Book Shelf
P.O. Box 124, Boyertown, Pa. 19512

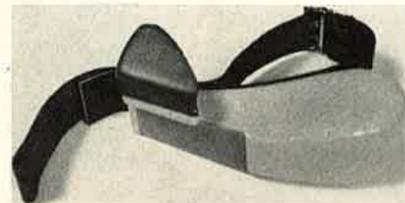
News / New Products

New Strap Release From Wilson Bros.

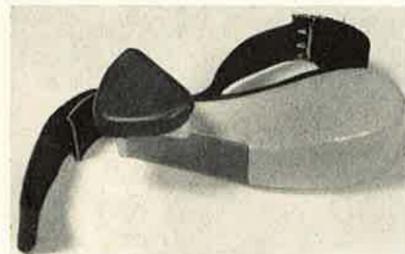
The brothers of Black Widow Bow fame (Bob, Norm and Jack Wilson) have just brought out a revolutionary strap release called the Strap-Tab.

Available in Chin or Cheek Rest models, the Strap-Tab is the ultimate in releasing devices. According to Jack Wilson, "Release with the Strap-Tab is so near perfect that when the arrow leaves the string it goes absolutely straight forward for perfect arrow flight and maximum trajectory."

The Strap-Tab is available for \$9.95 (either model) from your dealer or write to Wilson Bros., Box 33H, Rt. 8, Springfield, Mo. 65804.



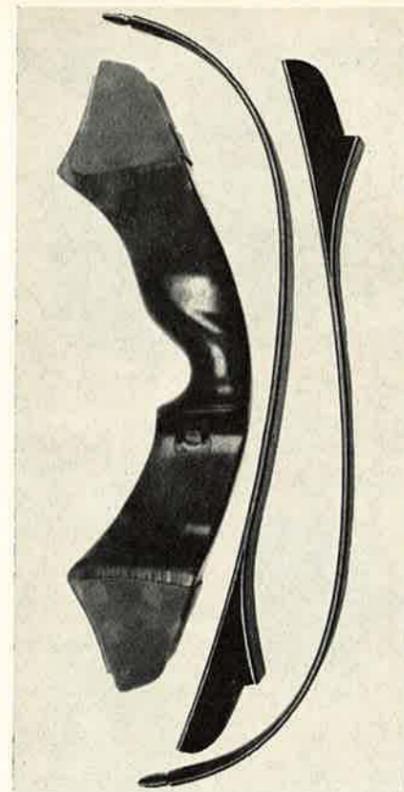
Cheek Rest



Chin Rest

Herter's Have Two "Take Downs"

NEW FOR 1970: Herter's 3 piece Take Down Bows. The Take Down Bows are available in two models. The new 62" Magnum Hunter and for the target archer, the 75" Utopian. The limbs of these Take Down



Bows are self locking and require no screws, bolts, clamps or snaps. The limbs simply are pushed into place in a second. Each limb is indexed to assure proper top and bottom limb placement. The new Take Down Bows are especially ideal for air travel, pack-ins, hunting trips and traveling in general. The bows come complete with a compact 3 compartment vinyl case. The Magnum Hunter breaks down into a 22" case and the Utopian Target into a 25" case. The 62" MAGNUM HUNTER sells for \$69.95 and the 75" UTOPIAN TARGET for \$114.95. Extra limbs are interchangeable and are available from 35 to 65 lbs., for the Magnum Hunter at a low price of \$29.95 and for the Utopian Target \$34.95.

New Field Faces

The new FITA International Field Faces on genuine corrugated waterproof toughhide are now available from Saunders. The faces are available in a complete set for your fourteen

target field range at \$7.95. The set consists of 20-15 cm, 8-30 cm, 8-45 cm, and 4-60 cm faces. There are extras included in the smaller sizes.

Start practicing now for the FITA International Tournament this August at Valley Forge, Penna. This round is enough different from the NFAA Field Round to warrant plenty of sharpening up.

A chart is available for easy conversion of your present field range to accommodate the International Field Round distances.

Available through your Saunders dealer or Saunders Archery Company, Columbus, Nebr. 68601.

Profane Tree Stand Ready For Fall Hunting

The subject of a lot of enthusiastic talk among sporting goods dealers and outdoorsmen these days in an ingenious new tree stand that enables the deer hunter to actually climb tall trees. Even its name, the Profane Tree Stand, provokes interest. It is said that when its remarkable climbing feature is demonstrated, there is such a frequency of colorful exclama-



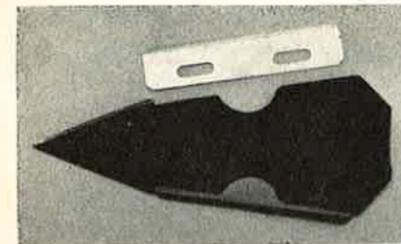
ARCHERY WORLD

tions from the observers, it prompted its imaginative inventors to call it the way it is. Despite a wide credibility gap in marketing such a unique product, the inventors and manufacturers, Baker & Walters Mfg., Inc. of Valdosta, Ga., report that sales were unusually high for this type of hunting accessory in its first season. Both mail order and dealerships are being used in its sales program. They are selling at \$29.95 retail and are also available direct from the Valdosta factory.

Little Shaver is Back

The "Little Shaver Company, of West Unity, Ohio is proud to announce that the Little Shaver broadhead is back in production. This fine hunting broadhead was formerly manufactured and sold by W. R. Brooks, Inc., Dearborn, Michigan. The Little Shaver broadhead is patented and utilizes injector razor blades for the cutting edge.

The heads sell for \$6.95 per dozen. Inquiries should be directed to: Little Shaver Company, P.O. Box 543, West Unity, Ohio 43570.



Herter's Take Two



Robert Barrie



Russ Hoffmister

The buck is an 11 pointer and field dressed at an amazing 250 pounds. The buck was killed by Robert Barrie chief bowyer and manager of the Archery Div. of Herter's Inc., Waseca, Minn. Barrie is also a member of the P.A.A. and has placed high in several money shoots.

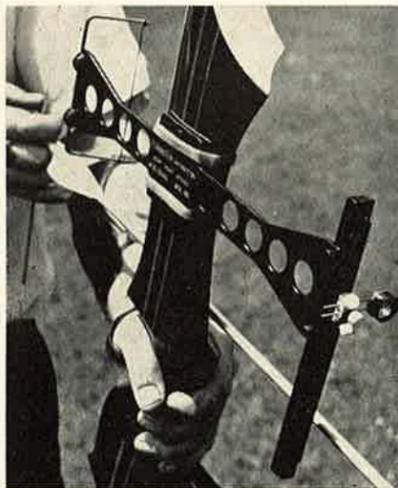
The doe was also killed on the same evening hunt, making it a double header. It was killed by Russ Hoffmister, Vice President of Herter's and long time archer. The doe field dressed 135 pounds.



PAA Gets Ready For 1970 U.S. Open

Joe Johnston, PAA; Sherri Schruhl, Miss Archery 69; Jim Easton, Easton Aluminum; and Ernie Root of Shakespeare Co. all give Joe advice on teaching Sherri the finer points of archery. This was photographed at the new and fabulous International Hotel during their opening. The \$20,000 US Open set for Jan. 16-18, 1970 is all set with registrations starting to fill up. As an incentive toward early registrations, the sponsors are awarding an all-expense paid trip for two to the Las Vegas US Open. The drawing for the all expense paid trip will be November 31, 1969. The trip will include air fare, deluxe accommodations at the new International Hotel . . . Meals, mainroom shows, skyroom dancing and lots of other frills. So get your \$25.00 entry fee in now.

Revolutionary New Bow Sight The Eliminator



The Eliminator Archery Company has developed a new innovation in bow sight design with multiple features: torque elimination, a new concept in mounting, versatility, and shock resistance.

Torque elimination is achieved through the use of the triple sighting design. The archer can immediately perceive undesirable torque while the bow is at full draw. Corrections can then be made before the arrow is released.

The new mounting method requires only minutes to mount with no screws, clamps, or special inserts which could damage the beautiful finish of modern bows. This new mounting procedure permits repetitive remounting with maximum precision for ease in transportation.

The versatility of the Torque Eliminator Bow Sight is unbelievable. There is no difference in the mount which is needed for a left or right hand sight. The unique mounting method can withstand jarring, and it will return to its exact original position.

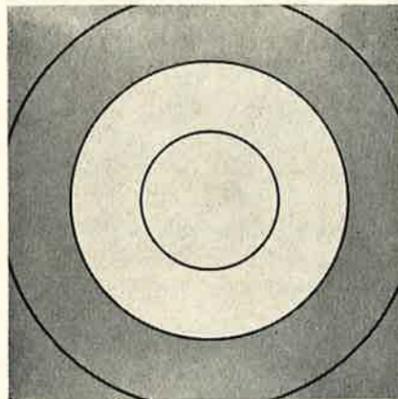
The mounting method and versatility of this sight are as advantageous to the dealers as

they are to the archers. However, its outstanding feature is its ability to eliminate torque and improve scores. Beautifully anodized in three color selections — gold, black, or red.

Price: \$25.00 Dealers price lists available. For additional information write: Eliminator Archery Company, 3334 South 63rd Street, Milwaukee, Wisconsin, 53219.

Tough Bullseye Patch

A toughened Bullseye patch for 36" and 48" four color faces is now being offered by Saunders Archery Company. This new patch meets all specifica-



tions in regard to color and ring diameter. The material is the popular tear resistant Toughened stock.

A quick easy way to attach the patch has been devised by Saunders. A 3 M adhesive in a spray can is used. It produces a bond that allows adjustment for 30 seconds. It then sets up rapidly in a water proof bond.

The system developed by Saunders of registration solves the problem of accurate placement — just the corners reach out to the blue ring and anyone can put them on easily.

See your Saunders Dealer or write to Saunders Archery of Columbus, Nebraska 68601.

Beginners Archery Handbook Announced

A new book "ARCHERY BASIC TECHNIQUES", by Dick Garver, Sr. of Sunland, Calif. has just been released. With archery being the fastest growing sport in the United States and to be in the Olympics as an official game for the first time in 1972, Garver has written this book of 70 pages with 86 illustrations showing how easy it is to learn to shoot the bow and arrow. By following the instructions and practicing the 7 basic exercises (from how to string a bow through how to aim) shown in the book, the beginner will have the right start and be able to participate in this fascinating sport with much more satisfaction and enjoyment.

Garver has taught archery classes the last 15 years at a Los Angeles City Recreation & Parks playground, and for the last 8 years has been giving Instructor's course on Archery to Recreation Department employes.

The book sells for \$1.50 and may be purchased from your favorite dealer, jobber or ordered direct from 8644 Foothill Blvd., Sunland, Calif. 91040.

NAA Nominating Committee

Following are the candidates for the Board of Governors, to be elected at the annual meeting, August 23, 1969.

East: Lura Wilson, Greene, New York; Edwin Choyce, Lansdale, Penna.

Central: Marvin Kleinman, Cincinnati, Ohio; Bohn Wanamaker, Minnesota.

West: James D. Easton, Encino, Calif.; Margaret Klann, Temple, Arizona.

Additional nominations are permitted if signed by at least five persons from the area in which the candidate is a resident, plus a letter from the candidate indicating a willingness to serve if elected.

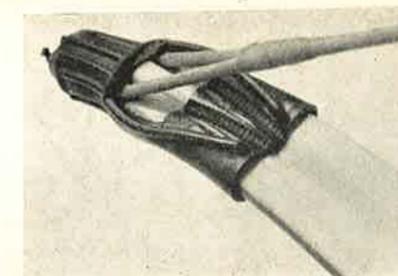
SHORT HUNTING BOW NEW FROM BEN PEARSON — A compact hunting bow new from Ben Pearson is only 52 inches long. It is designed to provide active hunters with the go-anywhere flexibility to shoot from trees, blinds or thick brush. Zebrawood and fiberglass BP-H52 is available at a suggested retail price of \$65.



Bow Tip Protector By Saunders

A plastic bow tip protector that allows free movement of the string has been announced by Saunders Archery Company. This new design has a slot at the grove position through which the string works. A soft pliable stretchy plastic is used in place of rubber. The plastic, unlike rubber, has a high resistance to ultra-violet rays and does not age. Exterior ridges along the side protects the string from any damage. The top is reinforced to prevent cracking.

These are available from Saunders dealers or from Saunders Archery Company of Columbus, Nebraska.



Pope and Young Meeting In Denver

The Pope and Young Club announces their 1969 Regular Membership Meeting and Big Game Awards Program for the last two Biennial Competitions 1965-7 and 1967-9 in Denver, Colorado, August 22 and 23, 1969.

The Regular Membership Meeting will be held Friday, August 22, 1969, at the Denver Center, 3505 East 39th Street, Denver, Colorado. President Glenn St. Charles indicates that there is a great deal of important business to be brought before the Regular Members and ample time has been allowed. Only Regular Members are invited to attend this Meeting.

Highlights of the Denver Meeting will be the Awards ceremonies for the 1965-7 and 1967-9 Big Game Competitions scheduled for Saturday, August 23, 1969. Location for this event will be the Brown Palace Hotel in Denver, Colorado.

All Associate Members, Official Pope and Young Measurers, and Regular Members are invited to attend this function.

PAA Nationals Will Be In Flint

Archers from all over the nation will gather in the city of Flint, Michigan when on August 22, 23 and 24 that city will host one of the most outstanding events on the summer tour, The Professional Archers Asso-

ciation National Championship.

This 7th annual event will be sponsored by the Professional Archers Association and the Archery Industry and will have operating assistance from the Flint Chamber of Commerce.

A new feature in this year's tournament will be an open division which will offer \$5,000 in merchandise and a chance for shooters who are not members of the PAA to be able to take part in this year's event.

Official competition will begin on Friday when PAA members will take to the field to shoot their first two rounds of the tournament. They will fire their third round on Saturday and those qualifying for the final round and a chance at \$7,500 in prize money will finish the tournament with one round on Sunday. The open competitors will shoot two rounds only, the first on Saturday as the member of a team composed of one PAA member and two or three open shooters, and will be competing for \$2,500 in merchandise. They will shoot their final round on Sunday where individually they will once again be competing for \$2,500 in merchandise.

The tournament site, which will be located at St. Agnes's football stadium is only six minutes away from the Holiday Inn and only four miles from the Pick-Durant Hotel. After the shooting is done on Saturday some social activities will begin with the annual meeting followed by a dinner dance to be held in St. Agnes auditorium. Tickets for the dinner dance will cost \$4.50 a person and will be available to all those who wish to attend.

This is one tournament you won't want to miss. All registrations should be sent to Sam Fudenberg, PAA Executive Secretary, 1500 N. Chatsworth, St. Paul, Minn. PAA division \$35.00, Open division \$15.00

Keystone Bowhunters Heap Success On Success and Charity, Too

The Keystone Federation of Bowhunters set new record highs at their tenth annual charity shoot according to Marty Thomas, Keystone President. The two day shoot over the Lower Providence Rod and Gun Club's Course raised over thirty five hundred dollars for the Retarded Children's Association. The four Keystone Clubs pitch in each year to make the event one of the largest in the east. This year's targets were hand painted monsters from Lower Slobovia. The contestants got into the spirit and managed to shoot monster scores to match. Top score for the shoot belonged to John Major shooting freestyle over his home course, he dropped only four points for 596 out of 600. The barebow Master Class went to Keith Kemmerer with 579, XA to George Ruoss with 566, and XB to Walt Rydzynski with 537. Women Expert went to Nancy Heck with 488 and Women Archer to Vie Kemmerer with 355. Nancy and Bill Heck took Husband and Wife in the Bare Bow Division with Jerry and Jim Hare winning in Freestyle. The Barebow team of Pat Giambrone, John Woodell, Dutch Holland and Don Conicelli won for Lower Providence and the L. P. Freestyle team of Don Featheringale, Bill Pierce, Tom Stevenson and Larry Luterman took that competition. Among the many other fine scores was Hedy Chaffee's 579 to win Women Freestyle, Robert Bennett's winning Bantam score of 573 and Howard Burnett's 542 which took Junior competition. Before the shoot was even over the Keystone Federation was saying, this was great, but wait until next year!

INTERNATIONAL FIELD AND HUNTER COURSE

The Keystone Federation of Bowhunters operates on the principal that one good job deserves another. Having just concluded their highly successful Annual Charity Shoot, the Federation is already hard at work laying out and building the Field and Hunter Rounds Course in Valley Forge Park in preparation for the International Shoot in August, according to Karl Schneider, Keystone's representative to the International Committee. Karl explained that you couldn't get more realistic country for the course, each time he goes to the course he temporarily evicts a small herd of deer who make the course their permanent home. "This is going to be the most beautiful and most interesting course I have ever seen," Schneider explained. "It will offer a challenge with every shot. It will not be an easy course, but one that will bring the best out in an archer. A shooter will have to work for every score." When asked for more detail, Karl just smiled and explained that information was classified. No one from the news media or anyone who might possibly compete is permitted anywhere near the course which is guarded by the park police and of course, the deer.

Record Cougar

John Lamicq, member of the Ben Pearson Bow Hunting Advisory Staff, brought down this record class cougar rating a probable number two spot in the Pope & Young Competition Lamicq, a professional guide in the rough mountain country of Utah and Colorado, used his Ben Pearson Mercury Hunter bow to bag the big cat, which scored 15-5/16 official points.



John Lamicq

Shakespeare Saddles-Up

Shakespeare Company of Kalamazoo, Michigan, and Simco Leather Company, Inc. of Chattanooga, Tennessee, announced today that an agreement had been reached for an exchange of all Simco stock for an undisclosed number of shares of Shakespeare Company stock. Simco Leather Company, Inc. is a leading manufacturer of saddlery and supplier of equestrian accessories, with annual sales of over \$5,000,000.

Shakespeare, a manufacturer of fishing tackle, golf and archery equipment, automotive parts, monofilament thread and industrial fiber glass products, operates plants in Michigan, South Carolina, Missouri, Arkansas, Florida, Pennsylvania, Ohio and Canada, as well as overseas. Marketing activities are carried on throughout the Free World.

Shakespeare stated that the acquisition would provide Shakespeare, Simco and Simco's able management, greater opportunities in the sporting goods and recreational fields.



Bigger Beginnings For Better Ends

The original masters of Easton Aluminum Arrow Shafts were made in 1946. Since then each shaft of a size has weighed and spined exactly the same. Over the years this consistent uniformity has earned Easton Shafts the confidence of amateur and professional archers everywhere. So much so, that for the second

time, we have moved all our beginnings into new and larger quarters to help provide more of you the best chance for better ends.

The new facilities also provide space to produce high-strength, light weight aluminum tubing — golf clubs, ski poles, as well as precision commercial tubing.

Write for a catalog at our new address:

JAS. D. EASTON, INC. 7800 HASKELL AVE. VAN NUYS, CALIF. 91406

TRADING POST

Trading Post Gets ACTION With Buying, Selling and Trading

Rates are 30c per word, payable in advance. Minimum 20 words. Mail remittance and copy to TRADING POST, Archery Associates, Inc., P.O. Box 124, Boyertown, Pa., 19512. Include your zip code. Deadline 1st of second preceding month.

Camps and Lodges

NEW CAMPING AREA . . . Archers, Bow-hunters WELCOME. Hiking trails, scenic views, Deer, Turkeys, Wildlife. Modern rest rooms, HOT showers, flush toilets. Camp store. Thousands acres State lands adjoin camping area. Camper, Trailers, Tent sites, Firewood. In the Heart of Potter County, Pa. Rates \$2.00 day. Write for information or reservations: WILBERT'S KAMPER KOUNTRY, Route 6, Ulysses R. D., Pa. 16948. Phone: 814-435-2163.

ARCHERY . . . PRIME DEER COUNTRY. Call or write for reservations. DENTON HILL MOTEL. Rt. 6 between Galeton and Coudersport. R.D. #4, Coudersport, Pa. 16915 or call . . . Phone: 814-274-8223. Reasonable Rates. Paul S. & Evelyn A. Myers.

ARCHERS . . . Hunt POTTER COUNTY, No. 1 in Pennsylvania. For lodging, write or call, Ralph Wentz, Nine Mile Lakeside Cottages, R.D. #2, Ulysses, Pa. 16948. Located on U. S. 6 midway between Galeton and Coudersport. Phone: 814-435-2394.

SUSQUEHANNOCK LODGE . . . "Where the Bowhunters Stay". Hunt Potter County for best DEER HUNTING. \$10.00/DAY—includes lodging, three meals. Home cooked food, served family style. LODGE—Pine paneled, stone fireplace. Surrounded by State Lands—open to hunting. Reservations required. SUSQUEHANNOCK LODGE—Rt. 6—between Galeton and Coudersport. Ulysses, R.D., Pa. 16948. Phone: 814-435-2163.



For Sale

CROSSBOWS for Target, Hunting & Carps shooting. \$18.95 Factory Price. Send for color literature. Jay Co., Rt. 3, Goddard, Kansas 67052.

ARROW SHAFTS . . . Port Orford Cedar direct from manuf. 31-1/2" length, 11/32, 21/64 and 5/16, per 100pp. #1's \$11; #2's \$8; #3's \$6; spined 5# groups \$3 more. Write for other prices and information. NORTH-WEST SUPER-SHAFT, BOX 695, COQUILLE, OREGON 97423.

BOWHUNTERS . . . Black Copperhead Custom Slicer, Ripper, Magnum broadheads. Immediate delivery. Write Bowhunting, 15705 Schaefer, Detroit, Mich. 48227.

60 NATURAL & 30 Dyed full Length Feathers, \$3.00. Postpaid. West Virginia Archery Supply, 616 Chestnut St., South Charleston, W. Va. 25309

BEST QUALITY TARGETS, thriftiest prices. OFFICIAL NFAA targets. FULL COLOR animals on corrugated board. Prompt shipment, free delivery. WAYSIDE PRINTERS, RD 1, Glenmoore, Pa. 19343

OLD AIR-SEASONED, SPLICED YEW STAVES—\$1.50 to \$7.50 each. Osage staves—\$1.50 to \$4.50 each. Gorged Glass—Yew Laminations, Composite staves, Urae 185 glue. Forty Five years experience. Dependable service. Earl L. Ullrich, Box 862, Roseburg, Oregon

SPECIAL . . . 9/32 orange butyrate nocks \$3.50 per 1000 postpaid. Blue Cloud Archery Co., 242 Walnut St., Fort Collins, Colo. 80521.

PUT A RAZOR IN YOUR ARROWHEAD. Use the ORIGINAL LITTLE SHAVER BROADHEAD. \$6.95 Dozen. Little Shaver Company, Box 543, West Unity, Ohio 43570.

TIRED of that greasy kid stuff? CONN'S CAMO CLOTH FACE MASK is proven effective, insect proof, washable and satisfaction guaranteed. \$2.25 Postpaid. Write: NANCY CONN, 222 5th Ave., McComb, Miss. 39648.

ARROWS . . . BOW STRINGS . . . SAVE . . . Buy factory direct . . . Send for price list . . . ROVING ARROW, 1039 Murray, San Luis Obispo, Calif. 93401.

TARGETS . . . Fastest service in the world. Official NFAA, Field, Hunter, Animal, Deer, Safari, Small Game, Heart, Poker, Wilma Tell Novelties. 20" Blue AIAA, 16" Black PAA, Chicago, Short Chicago, Flint, Freeman, FITA, NAA 4-Color. Cardboard, paper. FREE catalog. NOVELTY TARGET CO., Dept. T, 8180 Vine St., Cincinnati, Ohio 45216. Phone: 1-513-771-6816.

CUSTOM MADE ARROWS: Cedar \$8.95 doz Micro-flite \$27.95 doz. Easton 24 SRTX \$32.95 doz. Add price of points wanted \$1.50 doz. for field. Razorheads \$7.95 doz., Dead-heads \$7.50 doz. Specify draw length and spine weight wanted. Draw lengths to 30" spine weight to 65#. THE ARROW SHOP, 3903 North Kedzie Ave., Chicago, Ill. 60647

Books and Magazines



FREE 1969 Catalog. Name brand accessories. Wing & Bear Bows at wholesale prices. Roberts Archery Co., RFD #1, Palmer, Mass. 01069.

FREE . . . Wholesale Catalog. Arrow Shafts, Broadheads, Fletchings, Fisharrow parts, Tools, Bows, Finnsports (90G) Toledo, Ohio 43614.

DEALERS wishing to receive ARCHERY MERCHANDISING — archery's bi-monthly trade magazine reply on business letterhead to Archers Magazine Co., 24 South Reading Avenue, Boyertown, Pa. 19512. Subscription free. Only released to authentic dealers.

FREE . . . Archery catalog Top Name Brands. Lowest prices. World's largest supplier. Same day service. Anderson Archery Sales Co., Grand Ledge, Mich. 48837.

NEW!!! Archery Wholesale Catalog FREE!!! Top name brands—48 hour service. LOW-LOW PRICES. PORTAGE ARCHERY CO., SUFFIELD, Ohio 44260.

Emblems and Patches

EMBROIDERED PATCHES—Washable, colorfast emblems, custom embroidered in lots of ten or more. 100 Archery designs, exact prices and full detail sent free to Clubs. ANTHONY EMBLEMS, Box 7071, Grand Rapids, Mich. 49510.

DECALS, JACKET EMBLEMS, BADGES, PRINTED T-SHIRTS, 2" PRESS-ON LETTERS. WRITE: COLOCRAFT, 532 South State Street, North Adams, Mass. 01247.

Guide Service

7 POPE & YOUNG Bucks taken in last two years. Private hunting. Reasonable rates. Now booking Elk, Lion & Bear hunts. John Lamiec, Jr., DeBeque, Colorado.

HUNT WESTERN COLORADO — Archery Season starts Aug. 16. 5 - Day MULE DEER HUNTS. I guarantee shooting under 40 YARDS. \$125.00. Also Combined DEER and ELK HUNTS. Rifle hunts in season. Write or call OSCAR MASSEY WHITE-WATER, COLO. 81527. PH-303-227-9331.

BOW HUNT the wild rim country of western Colo! Make your base at ranch. Trout fishing stream, modern cabins, trailer sites, country-style meals. Guides by the hunt or by the day. Families welcome. Write V/M Guest Ranch, Gateway, Colo. 81522. Phone: 303-931-2802.

COLORADO ARCHERY ELK HUNTING. Four 7 day hunts, August 15 to Sept. 15. Headwaters the Rio Grande River. Four hours on horses to hunting camp. Fabulous Trout Fishing and mountain scenery. Registered Guides and Cooks. S-LAZY-U GUEST RANCH, Creed, Colorado, Phone: 303-658-2452 or 336-5323.

BOWHUNTERS PARADISE . . . PRIME DEER COUNTRY . . . Potter County, Rt. 6 between Galeton and Coudersport. DENTON HILL MOTEL, R.D. #4, Coudersport, Pa. 16915. Phone: 814-274-8223.

Employment Opportunities

BE YOUR OWN BOSS—12 Fully Automatic Lanes, 24 shooting positions, none better anywhere. Too many items to list, would fill a FULL page in this magazine. You must see this equipment. Owner retiring. Call 299-7832 or Write: MORAINÉ ARCHERY CENTER, INC., 2701 S. Dixie Hwy., Dayton, Ohio 45409.

SHOOTING SALES REP. WANTED for SABO line. Several areas open. Apply "SABO", Box 566, Westminster, Calif. 92683.

Leathercraft



FREE! World's largest leathercraft catalog. Hundreds of Make-it Ideas. Tandy Leather Co., Dept. E66, Fort Worth, Texas.



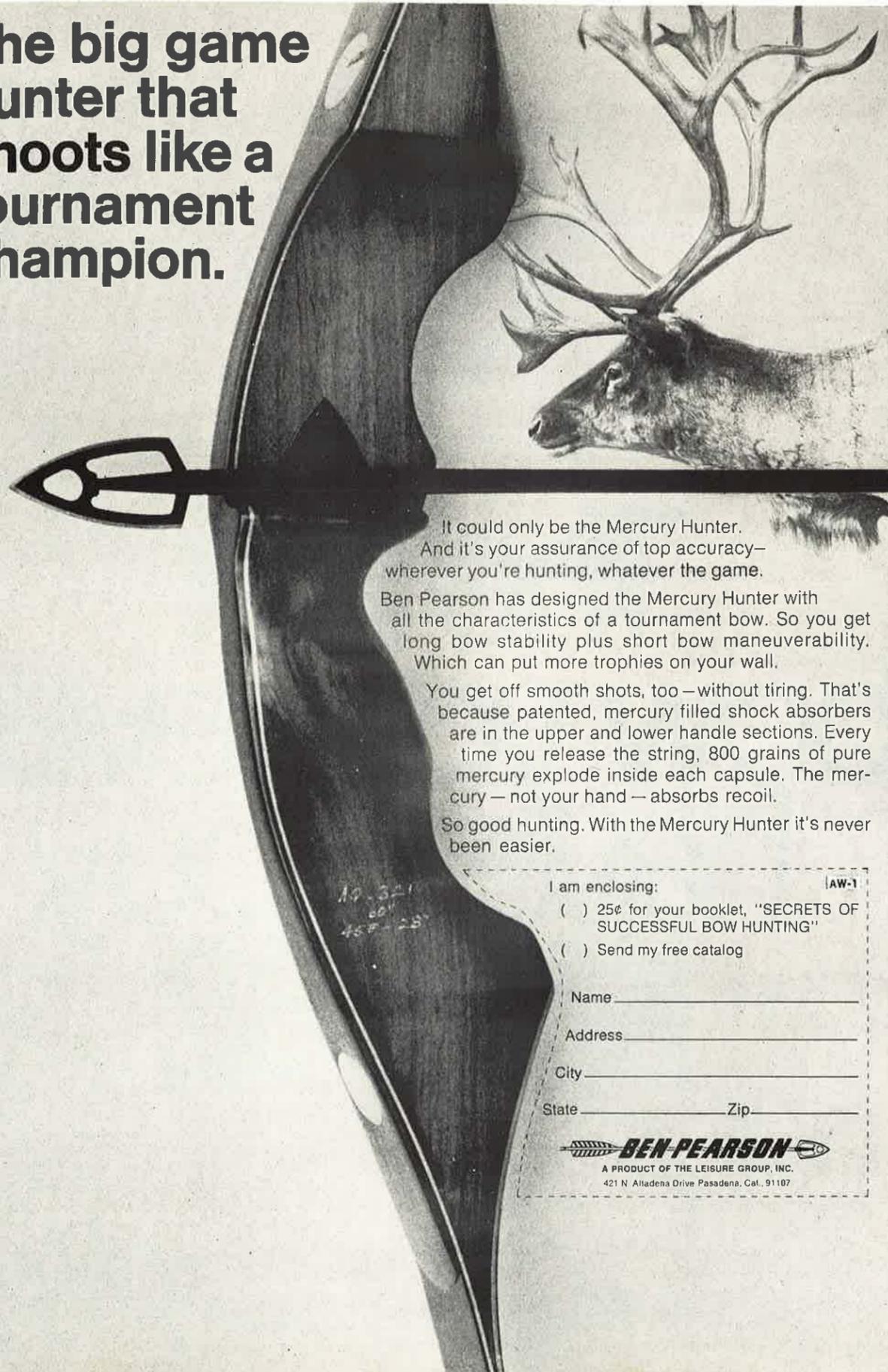
Miscellaneous

WINEMAKERS—Free illustrated catalog of yeasts, equipment. Simplex, Box 12276, Minneapolis, Minn. 55412.

Cameras & Supplies

FREE FREE Photographic and Optical Bargain Book. JIMSCO, Dept. #5BF, 9006 Waukegan Road, Morton Grove, Illinois 60053.

The big game hunter that shoots like a tournament champion.



It could only be the Mercury Hunter. And it's your assurance of top accuracy—wherever you're hunting, whatever the game.

Ben Pearson has designed the Mercury Hunter with all the characteristics of a tournament bow. So you get long bow stability plus short bow maneuverability. Which can put more trophies on your wall.

You get off smooth shots, too—without tiring. That's because patented, mercury filled shock absorbers are in the upper and lower handle sections. Every time you release the string, 800 grains of pure mercury explode inside each capsule. The mercury—not your hand—absorbs recoil.

So good hunting. With the Mercury Hunter it's never been easier.

I am enclosing: [AW-1]

- 25¢ for your booklet, "SECRETS OF SUCCESSFUL BOW HUNTING"
- Send my free catalog

Name _____

Address _____

City _____

State _____ Zip _____



A PRODUCT OF THE LEISURE GROUP, INC.
421 N. Altadena Drive Pasadena, Cal. 91107



The last bow you'll ever have to buy.

Here's the bow built to last a lifetime: the new Fred Bear Take-Down Hunting Bow. It could very well be the last bow you'll ever have to buy. □ The handle section is made of carefully selected

hardwoods, injected with special materials which change its entire physical characteristics. The result is a material with weight, stability and strength far greater than any natural wood. Field tests by Fred Bear himself, in Alaska, Africa and South America proved it is unaffected by temperature or humidity. Under normal care, this handle can actually last a lifetime and be passed along from father to son, like a fine shotgun.

□ The new Take-Down Bow assembles like a fine gun, too. No tools are needed to



Fred Bear demonstrates the simplicity of his new Take-Down Bow. No tools or extra parts are needed to completely assemble this remarkable new bow!

lock its precision-milled limbs into place. No extra parts to lose, either. Just a simple snapping together of limbs and handle and they're in line to stay. □ Three sets of limb lengths are

available in draw weights of 35 to 70 lbs. Select the combination you want for any hunting or practice situation. You can even switch the length and weight of your bow in the field to meet changing terrain conditions. □ The new Fred Bear Take-Down Hunting Bow comes in its own handsome travel case. It will go right along with you, wherever and however you travel. See this

truly remarkable bow now at your Bear dealer's. See it, shoot it. It could be the last hunting bow you'll ever buy.



BEAR ARCHERY

DIVISION  VICTOR COMPTOMETER CORPORATION

Dept. AW-8, Rural Route One, Grayling, Michigan 49738