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HOW WE TESTED THE  
**FLAMING ARROW**

See pages 8-11





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Here, at last, is a bow "accuracy engineered" for those who want the very finest for competitive target shooting. The striking new Full Wing Handle, tapering gracefully into wide, stable recurves is designed and handcrafted for one thing and one thing only . . . accuracy. And the Eldorado Catalina delivers the unparalleled accuracy and stability demanded by leading tournament archers. In the short time since its introduction, the Catalina has already set several new records. If you are looking for the ultimate in target bows and improved scores . . . the new Full Wing handled Eldorado Catalina is for you.

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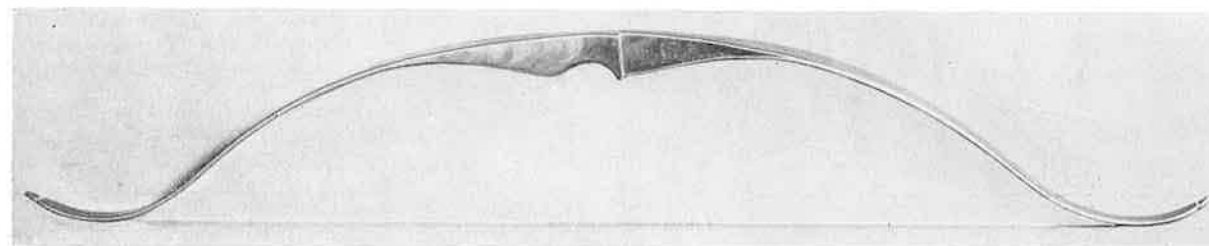
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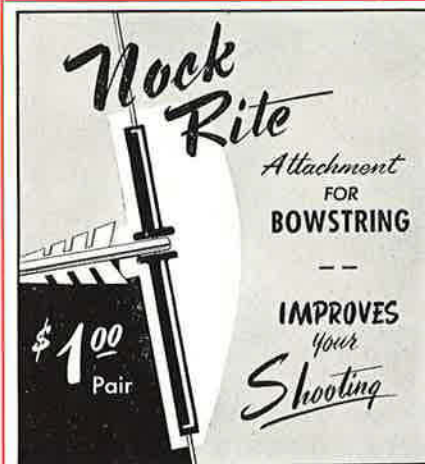
# Christmas SHOPPING GUIDE

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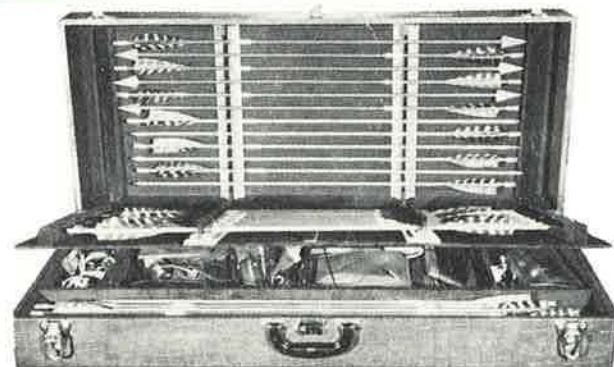
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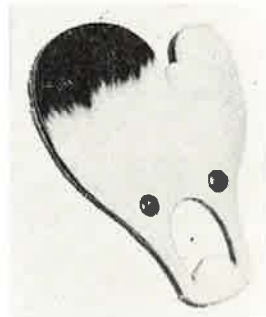
48 arrow capacity in upper half of case; gear in lower half. Inside size: 32" x 10" x 7 1/2". Heavy leather-grained vinyl exterior, plush flocked velveteen interior. Brass hardware, rubber holders. Satisfaction guaranteed! Send check or money order.

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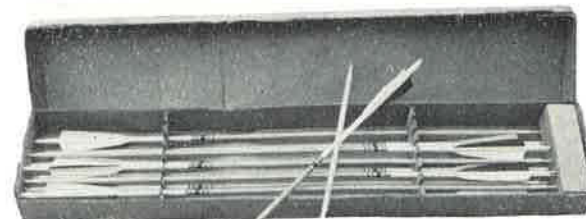
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## The Archer's Bookshelf

### Archery books make fine Christmas gifts, too

The literature of archery is fairly small; even so, it's a rich literature, and that's something to remember when you're looking for a Christmas gift for that archery friend or that archer in your family. And books make fine door prizes for winter club banquets. We know of a couple of clubs which award archery books as tournament trophies, too.

If it's fiction you're after, the pickings are slim—but very good. Indeed, the only two novels with an archery theme—excluding out-and-out children's books—are *THE WHITE COMPANY* and *SIR NIGEL*, both by Sir Arthur Conan Doyle, more famous for *Sherlock Holmes*: you'll recall we printed a chapter from the first-named book a year ago. Both books are just plain wonderful; they deal with the hey-day of the English longbow. You'll have to get a bookstore to try to find the books; they're out of print. Of course, there's *ROBIN HOOD*, this in various forms; the Howard Pyle version is the standard.

History? If your giftee likes to collect old books, or if he wants some real background, try *ARCHERY*, by C. J. Longman and Col. H. Walrond. Published in England in 1894, it's one of the Badminton Library series—and it's hard to find. We suggest you write to Clement C. Parker, 118 W. Airy St., Norristown, Pa., perhaps the nation's only dealer of old archery books. Then there's Edmund Burke's very good *HISTORY OF ARCHERY*. It was published in '57 by the William Morrow Co., and your bookstore can get it for you easily. Or an English book entitled *THE ARCHER'S CRAFT*, by Adrian Eliot Hodgkin. The historical sections are colorful and excellent; the book was published in this country by the

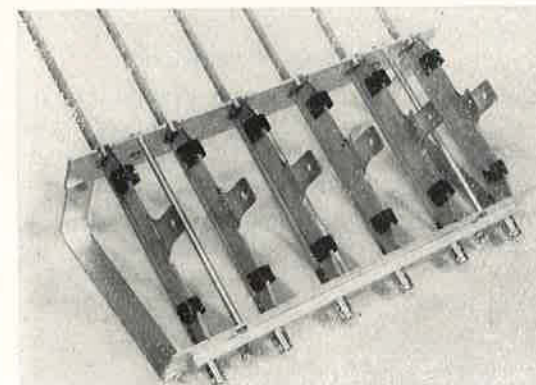
A. S. Barnes Co., about 1956. Again, see your book seller. The classic archery book, of course, is the 16th century *TOXOPHILUS*, by Roger Ascham. This is a rare bird indeed, and it costs like hell: try Parker.

Another classic—and the American classic—is *HUNTING WITH THE BOW AND ARROW* by Dr. Saxton T. Pope, the man who started our modern renaissance. It's in print, we're quite sure, in the 1947 G. P. Putnam edition. Another book by a famous archer is *HUNTING THE HARD WAY*, by Howard Hill; Trend Books, 5959 Hollywood Blvd., Los Angeles 28, has a 75¢ paperback of the original; order it from them. (Trend also published the 75¢ *ARCHERY HANDBOOK* by the editors of *BOWHUNTING*; we have it, natch.)

Still another classic is *TARGET ARCHERY*, by Dr. Robert P. Elmer; it's filled with good historical dope and good archery common sense; Dr. Elmer was this century's Grand Old Man of Archery. The book was last printed in '46 by A. A. Knopf. Maybe your bookstore can get ahold of it. As we recall, the book combines much of the material of *ARCHERY* and *ARCHERY REVISED*, two earlier Elmer works.

If you want a couple of books both esoteric and off-beat, we recommend *ZEN IN THE ART OF ARCHERY*, by Eugene Herrigel. About \$2, you can order it through a book dealer; it's about the use of archery in Zen Buddhism or, to put it another way, about Japanese archery. If your Christmas giftee is a student, he'll snap his English teacher to quick attention by discussing or writing about *SHAKESPEARE AN ARCHER*, an 1897 work going for about \$7.50 in the rare book trade. The rare book

(Turn to page 18)

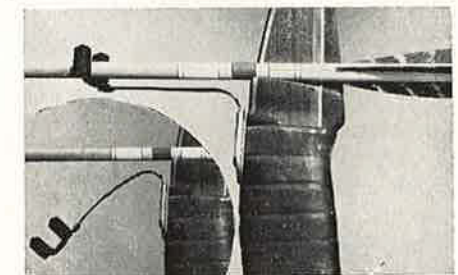


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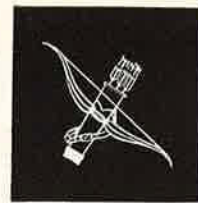
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**NELSON ARROW HOLDER \$2**

Holds arrow on bow in position for instant shooting. No more cold hands from tension of holding arrow on bow. Releases arrow noiselessly as you start to draw regardless of position of bow. Holds any size arrow without marking it; made of high-grade spring steel and rubber. Does not interfere with sight or quiver; swings out of sight for instinctive shooting. Use either right or left hand.

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# bowhunting

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MEMBER OF



AMADA

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## AT LAST! A STEP TOWARD A MERGER

One of the three national associations says it will be glad to sit down with the others to discuss the merger proposed by BOWHUNTING. It's the American Bowhunters Association, or ABA. It's younger than NAA or NFAA, but it's headed by an archery old-timer who has long seen the good sense of a single national organization.

He's Lt. Comdr. L. J. Carter, USN. He points out that the single national idea has been advanced a number of times in the past, failing because its supporters couldn't "overcome the opposition which immediately develops when this idea appears on the horizon." Now, says Nick Carter, "the proposal is absolutely ignored by a majority of those who could and should at least investigate its possibilities."

Why? Carter asks, "Is it our common stupidity or is it a planned program which keeps us at each others' throats in a constant squabble over shooting" (Turn to page 19)

## THE "TRUE" ARTICLE: ANY HARM DONE?

If approached by a non-archer, every and any intelligent bowhunter, we feel, can refute the half-truths of "Butchers With Bows and Arrows," an article which appeared in November's *True* magazine. We're not going to dissect the article here, nor do we intend to get into a hassle with *True* about it: it won't do any good and besides, the magazine is probably itching for a nice hot controversy. Readers have asked if they should write: if they write anybody, it should be to the national archery associations, which along with AMADA, should get a general public relations program going.

(Turn to page 19)

## CHOOSING A NEW NFAA SECRETARY

His doctors have advised the capable Roy Hoff, recovering from his heart attack, to resign as NFAA's secretary-treasurer, and prexy Karl Palmatier has appointed a committee headed by Phil Clemons, NFAA Executive Committee member, to find a new man. This is a golden opportunity for NFAA—and for archery.

What NFAA needs is a man trained in running organizations—a professional specialist who knows how to operate, promote, publicize and build a struggling outfit surely destined for bigger things. More than an office manager is needed; NFAA has that now in the person of the efficient Audrey Hein.

Mr. Palmatier wants to see an archer in the job. So do we. But this is a minor qualification in our book. It's easier to turn the right man into an archer than it is to turn an archer into the right secretary. Mr. Palmatier wants a young man. He'll probably get one, simply because NFAA can't afford a top-flight veteran; the salary of a capable young man can and should be increased as he builds the organization.

If archery is to grow, it will be largely through an efficient, modern, progressive NFAA—or through such an NFAA merged with the other associations. Indeed, it strikes us as only logical that an NFAA secretary of the

(Turn to page 19)

## Buck Contest: Last Call!

You've got until Jan. 1 to get your entry in the mail for our fourth annual Big Buck Contest. If you don't know the rules, here they are once again. The buck with the greatest total of the combined lengths of the two main antlers wins. (If one main antler is 20" and the other is 22", the total is 42"). Measure along the outside edge. First prize is a name-engraved silver beer mug.

In the event of a tie, the widest distance between the two antlers will decide first place.

Second prize, a set of custom-made Bucktail Archery broadhead arrows, goes to the *heaviest* buck, field dressed weight. So send us the weight, too.

Rules? You must be a subscriber as of Oct. 1. Your letter of entry must be signed by a buddy who has seen the deer, and must tell when, where, how and with what make and weight bow and what make head and arrow you used. And to win, you *must* submit a photo of you and the deer.

## Decals Available

Rummaging around in our files the other day we came across a batch of colorful automobile window decals which show the figure of an archer and which say "Let Us Help You Get Into Archery." If you'd like us to send you one, drop us a card. There are only a few, so it's first come, first served.

## Let Us Know . . .

. . . when you change your address! We're not mind readers. You don't want to miss an issue, but you very well may if you don't send both your old and new addresses at least two weeks before you plan to move.

## THE FIVE RING

### Two-Finger Release?

. . . I wish I could say that a change from the conventional three-finger release to a two-finger one transformed me into a champion or something like that but I'm afraid my best scores have been shot with the conventional release. My purpose in writing is to ask other archers if they've tried a two-finger release and, if so, what they think of it.

My trouble has been an inability to build up to this method. I give it a try about once each season, and invariably get the following results: (1) using a pin-sight at 60 yds. my arrows are 10-12" above the gold if the pin is set on my usual mark; (2) my arrows start grouping tighter and tighter; (3) my anchor feels firm and natural and my release hand snaps back, smooth as silk; (4) I breathe hard and fast and wonder if I will have trouble arranging leave from my work when I become a member of the next FITA team; (5) I ignore the strain on forearm muscles and tendons I didn't know I had and (6) I return to the three-finger release two weeks later, the first time I'm able to again draw a bow.

GILBERT J. FREY  
Gaithersburg, Md.

### Archery in World War II

. . . Your July article about bows and arrows as weapons in World War II led me to a search of some back issues of archery magazines. I enclose an article from a 1946 copy of *The American Bowman-Review*, no longer published. This article very strongly indicates that steel bows used by the Danish underground did a lot of damage to the Germans.

From my own experiences in the war it would seem that your article is correct in stating that bows were not official weapons of any army. Thousands were used for recreation by our armies overseas. There were some rumors of troops being equipped with either longbows or crossbows. I doubt that there was any truth in this. I do know that one of the larger archery firms sold a lot of heavy hunting arrows to the army.

When it comes to the native archers of Asia and the Pacific area, this is a different story. Many natives were still living with the bow as an everyday weapon and hunting tool. I have no doubt that hundreds and perhaps thousands of Japanese were killed or wounded by native archers.

The close of the war found me on Mindoro, one of the small but wild islands of the Phillipines. There are no roads into the interior and the mountains are high and jungle-covered. The natives are small and very primitive, an inbred and dying race. A few even have the vestige of a short tail. They use spears and bows for hunting and for weapons. When we left the island there were an estimated 300-500 Jap soldiers still in the mountains. They were surrounded by natives who

(Turn to page 12)

## GRAYLING, MICH., PROBABLE SITE OF '60 NFAA NATIONAL

**No Other Bids Made; June 27-30  
Proposed Dates; National Guard Camp,  
Scene of '58 Shoot, Is the Place**

It's almost certain that the huge National Guard camp just outside Grayling, Michigan, will be the site of the National Field Archery Association's 1960 NFAA national championship tournament.

Because no other bids have been made, NFAA president Karl Palmatier has "presented the question of Grayling being the site" to the NFAA Executive Committee. "Nothing can be official until the Executive Committee passes on it," explains Palmatier, who was scheduled to have met with Grayling Bowhunter officials in mid-November.

As the camp will be in use by the National Guard during July and August, June 27-30 are the tentative dates for the field archery classic.

In 1958, 1400 archers, the largest field on record, participated—and there was ample room for at least 1000 more. Twenty courses were built. Archers lived inexpensively in army tents at the camp, and it is expected that arrangements will be the same in 1960.

## Christmas IS COMING!

**And what better gift for an archer than a subscription to BOWHUNTING Magazine!**

Just before Christmas, we'll send a handsome holiday card with an archery theme to each recipient of your gift subscriptions. This printed card, of course, will bear your name.

A gift subscription to America's fastest growing archery publication will be appreciated by any and every archer—and all year long, too. So subscribe for your friends today.

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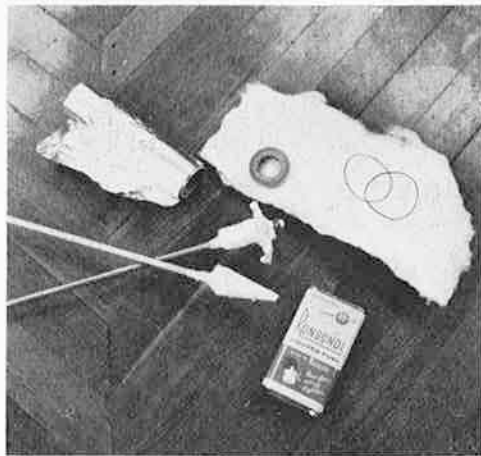
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**BOWHUNTING  
RIDERWOOD, MD.**



**An effective flaming arrow can be made quickly with these easy-to-get components. Clockwise you see cotton, tape, rubber bands, lighter fluid, two completed arrows and aluminum foil**

Thanks to BOWHUNTING's readers, we're able to pass along some solid info about flaming arrows to the U.S. Army's 77th Special Forces Group Airborne.

The 77th, you'll recall from our October issue article, is the outfit which trains its rugged men in the use of the bow as a behind-the-lines weapon and tool; the personnel of the 77th, paratroopers all, know how to kill an enemy sentry with a well-placed broadhead—and how to string wire with a fish arrow. But one particular skill has eluded the 77th: how to keep a flaming arrow aflame. That's why, in an Arrow Barrel note in the same issue, we reported Lt. Don Shebat's request for help in the matter. (When we asked Don Shebat *why* he wanted information about flaming arrows, he merely smiled).

That Arrow Barrel note brought a wonderful response. And as the mail came in, we discovered that there are two schools of thought about incendiary arrows—those that actually flame during flight and those that ignite upon impact.

The first-mentioned could be used for night signal work and for setting anything from a thatched roof to a vehicle ablaze. You and your club could use such an arrow, too—as a guaranteed crowd-pleaser in an outdoor archery exhibition, say at a county fair.

Admittedly the type of arrow that makes a fiery trail across the sky would not be ideal for all military work; if there were enemy troops around, for example, the archer's position would be given away. Thus the type of arrow designed to ignite upon impact might very well be, although more difficult to make, much more ideal.

BOWHUNTING hasn't tested an upon-impact arrow. But, guided by its readers, it has tried out a couple of flaming types—and found one of them extremely good.

The best idea was submitted by Gunn Smith, Indianapolis. The arrangement is ridiculously easy to make. It costs next to nothing. It requires no tools, no bother: it could be put together in the field in a matter of minutes. In our diagram, on pages 10 and 11, it's the fourth from the left.

Following Gunn's idea, and with a few improvisations of our own, we took a field arrow blunt-tipped with a .38 cal. shell casing. Around that tip we wound a 1" strip cut from an old T-shirt into a ball. Around the base we wrapped serving thread to hold the ball tight. Then we took, as Gunn suggested, some kitchen aluminum foil, shaped it around the cotton ball, crimped it tight around the base and secured it with serving thread; we

let the edge flair out about 1" to serve as a shield. Some of the cotton cloth was left exposed, and this was doused with lighter fluid. In fact, the whole works was doused, both inside and out. For we found that the more flame, the better the arrow performance.

The idea, of course, is that the flaring edge of the foil protects the flaming cloth; even though the flame on the outside of the foil goes out, the protected part stays lit. The longest shot we made was about 50 yards. The fire did not go out, even on impact.

We shot at 50 yards because our space was limited; there's no reason why a flaming arrow won't stay lit during shots three and four times as long.

How to shoot it? Attempting to simulate field conditions, the archer nocked the arrow, lit the saturated tip with a cigarette lighter and drew. You don't hold very long, of course—but you can, without burning yourself or scorching your bow, come to full draw and aim. When you shoot, the arrow streaks down range with a satisfying whoosh! It looks pretty spectacular—which made us realize that flaming arrows should be great for exhibition work.

The arrow we used was wood. It was shot about ten times. On the last shot, the arrow broke up in flight: flames had charred the shaft all the way through. Thus we might recommend an aluminum arrow for military or exhibition work—although, of course, a flaming arrow is expendable, especially for the 77th's needs.

Wood has one definite advantage in that it absorbs fluid and acts as a wick.

We didn't try Larry Snyder's cupcake cup idea, depicted in the sketch: if the cup could be held securely to the shaft, it should work. But we did try the idea submitted by Dick Mahnke, Warminster, Pa. That's the one with the aluminum cone. Actually, we used a paper packaging material coated with aluminum foil, with the foil side in. It worked pretty well: we let the tip of a field arrow poke through the point of the cone, securing the point with serving thread; the edges of the cone were joined together with scotch tape. With a metal cone, attached to the shaft as shown in the drawing, the arrow could be used over and over again. But such arrows would need to be pre-prepared; the Gunn Smith arrow can be made up when the need arises.

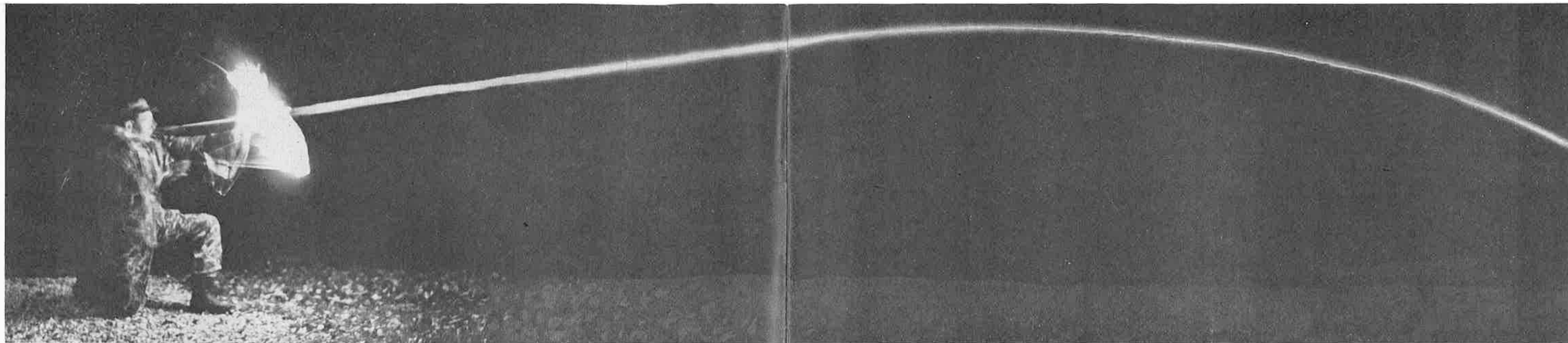
A word about the incendiary agent: lighter fluid seemed

*(Turn the page)*

# HOW TO MAKE A FLAMING ARROW

**WITH OUR READERS' HELP  
WE TESTED  
MANY DIFFERENT TYPES  
FOR THE U. S. ARMY**





to be ideal—and lighter fluid can be carried in pack or pocket. Kerosene and gasoline present problems, especially in the 77th's behind-the-lines work.

Let's look at the impact arrows. One of the best suggestions, we thought, came from Rix Dieffenbach, who runs the Glassip drinking straw factory near our office. During World War II, Rix recalled, his company turned out a small cellophane cylinder, similar to the famous straws he manufactures. The cylinder, closed at both ends, contained ferrous permanganate. The cylinder was intended to be the incendiary agent for a Molotov Cocktail which, you'll recall, partisans used for burning out buildings and tanks. The ingredients for the Molotov Cocktail are gasoline and alcohol—the non-drinkable kind—in a wine bottle. The cylinder was taped to the neck of the bottle. When the bottle broke, the cylinder was broken, too, and the chemical, mixing with the gas and alcohol, started what Rix calls a "pretty messy" fire.

How about one of these cylinders taped to a small vial of the inflammable mixture, with both cylinder and vial attached to the forepart of an arrow shaft?

Pasquale Castiello, Bethlehem, Pa., thought up the head which employs the knurled flint. Pas admits the idea isn't simple, but he feels, and we agree, that it's a workable idea. Pas, and Bill Lynch, Salisbury, Md., feel that the

surprise factor of upon-impact arrows is the important thing. Lynch suggests some sort of thermal bomb placed inside a hollow arrow; for an actual flaming arrow, he suggests "a beefed-up version of a child's sparkler, possibly with a striker on the arrow plate of the bow." Al Cooney is the author of the jellied gasoline idea we depict: a hollow tubular vial of jellied gasoline would slide over the shaft; a "war head" detonating cap would be fitted into a paper covering which would be fitted over the shaft just prior to shooting. "When the arrow is released," writes Al, "it need only hit the target; the detonator will ignite and shower the target with the jellied gasoline—which is extremely potent." Al suggests that "an arrangement of magnesium and a cap" might be employed, too.

"If I have been of any help to Lt. Shebat," continues Al, "I'm happy, because his outfit was a help to myself and some of my buddies in Korea."

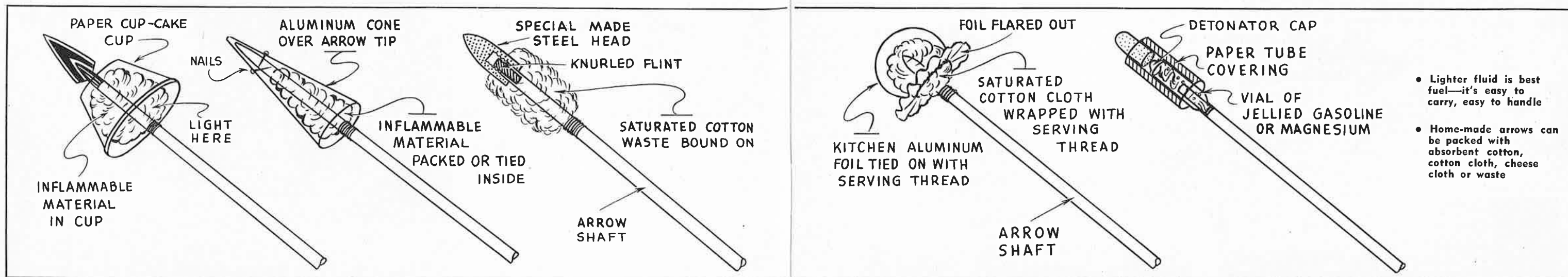
We're sure the idea, and all the ideas given here, will be of help to the 77th, and we're proud to be able to pass them along. To every archer who sent in an idea, thanks!

P.S. If you try out a flaming arrow, be careful! Be careful how you handle the materials—and be careful where you shoot.

**Did his hands and his bow get scorched when he drew, held and aimed? Not at all: action was too quick to be dangerous. Photo, a five-second time exposure, makes trajectory appear as a solid line of fire**



**Dousing tip of arrow with lighter fuel is an important part of flaming arrow count-down. This foil-covered arrow is shown below**





## THE PRO HUNTER

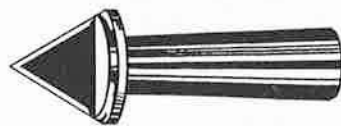
Newest of the famous Hoyt Pro Bows... the Hunter in versatile 58" length... especially engineered to produce excellent cast with heavy hunting arrows... smooth, non-stack draw with soft recoil action. Perfectly balanced by synchronized, low stress limb design to insure a longer life of accurate shooting. Non-reflective satin rubbed finish eliminates glare. Genuine leather wrap Equipoise grip for comfortable, positive control.

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## Letters to the Five-Ring

(Continued from page 7)

hated them for past abuses. I have no doubt that when the food and ammunition gave out...

The Japanese themselves are an archery-loving race. It might be that they would have some record of archery's use in the war. They were great for carrying swords—why not bows? It would be interesting to hear comments from your readers. We should get more information on this subject while the events are fairly fresh.

WILLIAM G. BRYSON  
Xenia, Ohio

(Ed. Note: Our thanks to Mr. Bryson for a fascinating letter. As a boy, one of our editors lived in the Phillipines—he was an army brat—and recalls the crude bows and long bamboo arrows used by the primitive Negrito pygmies near Clark Field. As we said in our July article, it certainly is possible that Pacific tribes killed Japanese soldiers with bows and arrows. Even so, we've not be able to find one specific, documented instance. As for the Danish underground, the article sent to us by Mr. Bryson says this: "They (the Danes) seized the powerful new weapons with delight, made arrows as best they could and got to work on the occupying forces. There are no records of their achievements, but it can be said with certainty that they not only killed a considerable number of Germans but also used incendiary arrows to set fire to German installations and to buildings housing the administrative offices of the occupying forces." The article was written by a Scot named D. Wilson MacArthur, and tells of a visit to the Seefab plant; the article mentions that Nils J. Gille of Seefab helped keep European archery alive during those dark years—and states that Gille supplied bows to English friends, including Colonel Jack Churchill, whose archery exploits against the Germans were described in our article.)

### Sconyers? Schonyer? Sconyer?

... I'm sort of confused. One of the other archery magazines spells the last name of the current NFAA women's champion as Schonyer. Still another has it as Sconyer. BOWHUNTING spells it Sconyers. Who, sirs, is right?

ARCH JACKSON  
Minneapolis, Minn.

(Ed. Note: We're right. "Faye," we asked her at the '59 National at Bend, "how exactly do you spell your last name?" And she told us. Three, not two, other magazines had variations.)

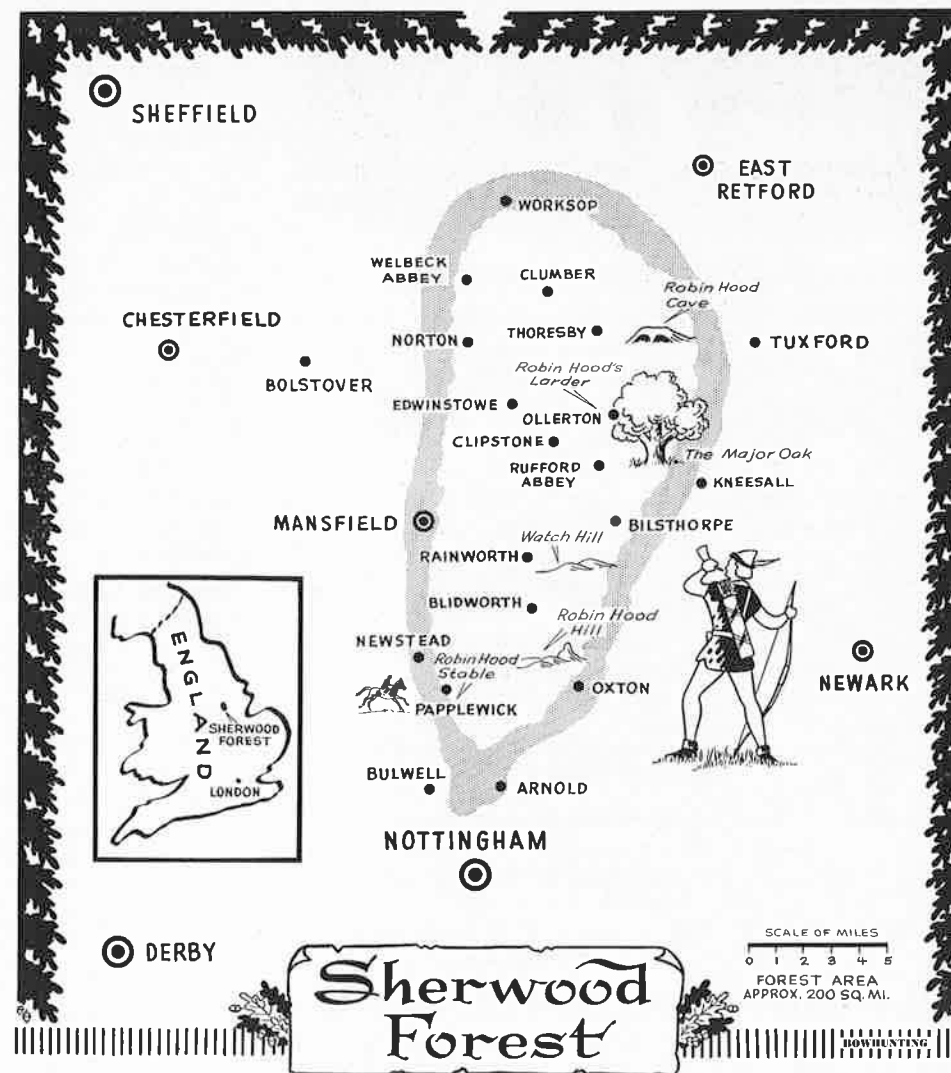


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SOUTH PASADENA, CALIFORNIA

BOWHUNTING, December, 1959

Modern Sherwood Forest has towns, villages, factories, mines and farms—and woodland, too. When the mythical (?) Robin poached the royal deer with his mighty bow, the forest was a favorite game preserve of England's kings. Note the Robin Hood place names, proudly bestowed over the years by local people



# ROBIN HOOD LIVED HERE . . .

## Sherwood Forest Still Exists. This Is the Way It Looks Today

Did an outlaw called Robin Hood once roam Sherwood Forest with a merry band of archers? The question has been argued for centuries; it will be argued for many more. It is not our purpose here to get into the argument, even though it is close to our heart and even though we have definite ideas, based on research, about it. That's the subject for a future article. But one thing is certainly true: Sherwood Forest existed. It still exists. And it is still famous simply because it *may have been* the scene of Robin Hood's adventures.

Our map shows you that the Sherwood Forest area is located near Nottingham: the city (originally called Snottingeham by the founding Saxons, if you can believe it) is slightly northwest of the center of England. Eight or nine centuries ago it covered an area of over 200 square miles. It was not all dense woodland: in pre-Medieval and Medieval times, "forest" was the word used to designate a royal hunting preserve. There were fields and moorland as well as woods, and villages, too.

Sherwood was, to borrow an oft-used contemporary phrase, a bowhunter's paradise. In the days of the Saxon kings (before the Norman invasion of 1066) a vast hunting lodge stood at Clipstone; near that place, too, are the ruins of a 12th century combination hunting lodge and great hall called King John's Palace. The ruins stand in a cultivated field.

The Robin Hood stories, of course, have the Lincoln green-clad outlaw (the city of Lincoln is not too many miles away) poaching on the royal deer. And the stories have him waylaying the Sheriff's messengers and wealthy noblemen traveling through the forest. The Great North Road, which cut through the heart of the area, may have been their route.

In time the woods where Henry II once lost himself while hunting thinned out; the villages grew into towns, the towns became cities. But only a century ago, the wooded area of Sherwood covered thousands of acres. (Turn to page 29)

## MICHIGAN

### Wolverine State's Season is Slow; Grouse Hunting, Weather, Cover Seen as Factors

BY LES LINE  
(Bowhunting Correspondent for Michigan)

Michigan's archery deer season got off to a slow start, and even toward the end reports from around the state indicated the situation hadn't changed a great deal.

A lack of deer certainly wasn't the trouble. There are as many whitetails around this year as there have ever been. The problem appeared to be three-fold—unusually heavy bird hunting pressure, the weather and the cover.

Michigan's waterfowl season—shortened considerably this year because of the duck shortage—didn't open until Oct. 7, and apparently many duck hunters, anxious to unlimber their shooting muscles, were out for upland game. Veteran archers said they'd never seen the woods so filled with scatter-gunners so early in the season. Saturday and Sunday bowhunting was futile in most parts of

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the state for this reason.

Ironically, there was little need for the grouse and squirrel hunters to be out: cover was so heavy that most were coming home empty handed. The heavy foliage didn't help bowhunters, either—nor did the early-season weather, which was rainy.

Incidentally, a veteran Michigan grouse shooter wants to outlaw the use of camouflage clothing by bowhunters! Claims he's almost shot camouflaged archers he's heard—not seen—moving through the brush. His justification? Grouse fly so fast when they burst out of cover that "you've got to shoot at the sound." This gunner, after almost peppering an archer in a blind, said that his near-victim "didn't have any business in there where the birds might be." The gun man wants the bow and grouse seasons to be separate, because he's afraid that archers will take shots at brown-clad bird hunters!

Someone ought to tell him there are a few hunters who make sure before they shoot—both archers and gunners.

Michigan briefs: Bow season lasts until Dec. 15 in Allegan Co., where deer pose crop damage threat . . . James K. Bell, of Schoolcraft, got heaviest fish—and \$50 first prize—in Michigan Bow Hunters' carp contest . . . it weighed 36 lbs. 13 oz. and was bagged in Sugar Loaf Lake, Kalamazoo . . . although Ronna Vezane won women's trophy and \$50, both she and her 11-year-old son, Rick, the boys' winner, were out-shot by the girls' champ, Sandra Linde, Detroit . . . daughter of MBH district governor Art Linde, her fish weighed 28 lbs. 8 oz.—and Sandra got it on her 16th birthday . . . 1960 NFAA Midwestern regional slated for Allegan, July 3-4,

with Michiana Archery League as host . . . Harold Patrick, Lansing, new MBH governor for south central district, replacing unexpired term of the late Harold Purcell . . . Owosso YMCA sponsoring archery rabbit hunt Dec. 6 in southwest Shiawassee Co.

(Ed. Note: We're delighted to tell you that Les Line is BOWHUNTING's new Michigan correspondent. Les is a staff photographer and the outdoor editor of the Midland Daily News, Midland, Mich. If you have news, send it to him at the paper.)

### 94-Year-Old Archer—Oldest in U.S?—Helps Out at Michigan Hunt Festival

When the tiny community of Glen Lake—west of Traverse City in Michigan's Leelanau Peninsula—planned a month-long festival for bow hunters this fall, the town fathers looked around for a veteran archer who could lend them some advice.

The man they found certainly rates as a veteran in this sport. Chances are, 94-year-old George Robinson of Traverse City is the oldest active archer in Michigan, perhaps in the Midwest or even in the nation.

Born on the day the Civil War ended—April 3, 1865—in Eaton County in south-central Michigan—Robinson has been an archery enthusiast for 82 years. And he still has—and still can draw—the hickory longbow he made one day in 1879 when he was 14 years old.

He made that bow from a hickory tree he cut just for that purpose on what is now the football field of Olivet College. One end is sharpened to a spear-like point so that if he "met a bear and the arrows didn't kill it" he might still have a chance by using his bow as a lance.

And there were plenty of bear still around that area in those days.

But the first bow of Robinson's didn't see use until 43 years later—in 1922—because every string he could find broke under the pressure of the pull. Then he was able to buy an imported bowstring, and the old "hickory stick" has been in use ever since. And it is still in excellent condition.

Robinson still tries a bit of target archery on occasion, although he won't be in Michigan's woods after deer this year. And he is plenty proud of his lifetime collection of archery equipment. All of this is on loan to Glen Lake for its festival, and he has given to the community a motorized target which he designed and help build, plus flags for archery golf and different targets he has painstakingly made and collected over his 82 years in archery.

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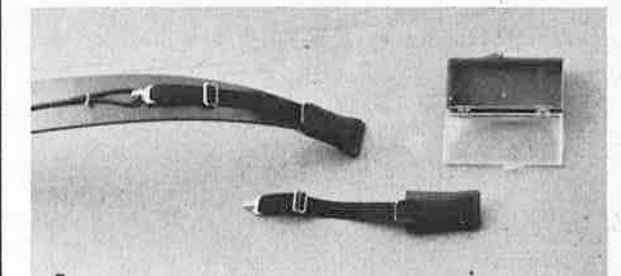
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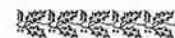
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PENNSYLVANIA

The Inquisitive Archer Asks About

## One Site For The NFAA National?

*It's almost sure that the 1960 NFAA National will be held at Grayling, Michigan, the '58 site; this breaks a tradition, because the tournament has never taken place twice at the same spot. The reason Grayling got the tournament? No one else, apparently, wanted to face the monumental task. Or was capable of facing it. Because of archery's growth and the attendant growth of the National, some predict the day when the tournament as we know it will have to be abandoned. Is the solution a single, permanent site, a place similar to Camp Perry, Ohio, where the national rifle matches have been held for years? Or, in spite of the obvious efficiency and economy, should the location be changed each time? One archer not shown here fears the same site would mean that competitors might get to know the courses too well. Courses, though, can be changed. Anyway, the Inquisitive Archer quizzed competitors at the '59 National at Bend, Oregon about it. So—*



Aleta Perkins  
Pomona, California

"Move it around! That way every archer has a chance to participate, even though it may mean once every three or four years. I'm looking forward to seeing the big shoot in Southern California, the best spot for it!"

Lt. Mary Horrigan, USAF  
Colorado Springs, Colo.

"I'd like to see the tournament held in the same place every year. It would be better run and thus more fun for everyone. The ideal spot? Colorado Springs. I'm stationed there in the WAF."



Wally Copensky  
Dover, New Jersey

"It should be rotated, but there should be three or four standard sites in different parts of the country. The first time a place holds a National, there's a lot of confusion and lost motion; use the same sites over and over and you'd lick that. Besides, very few areas have the know-how to put on an event as big as the National. Grayling should be one of the permanent sites."



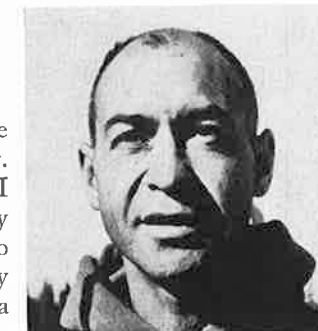
Walter Knobloch  
Flint, Michigan

"For myself, I like a different location each year so I can visit parts of the country I wouldn't see otherwise. I'm one of the few archers who has attended every NFAA National. But from the standpoint of efficiency, economy and the best in facilities, the tournament should have a permanent home. Putting on these shoots calls for skill and hard work."



Charles Hocknell  
Penns Grove, N. J.

"Although I'd prefer the same site for the tournament, it really should be switched every year—a few hundred miles inland from the Atlantic one year, a few hundred miles from the Pacific the next. All archers would then have a chance to compete. I travelled 3000 miles to the '59 National."



Edward Chapin  
French Camp, Cal.

"No, the tournament site should be changed every year. Even though this means I wouldn't be able to attend very often, I feel that the rotation to different parts of the country gives all NFAA members a chance to participate in the biggest and most exciting archery event of them all."



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## The Archer's Bookshelf

(Continued from page 5)

dealers may be able to find THE WITCHERY OF ARCH-  
ERY for you, too. That's the 1870's book by Will and  
Maurice Thompson, and it was the subject of a feature in  
a recent issue. It'll cost you!

More modern works include Tom Forbes' excellent  
GUIDE TO BETTER ARCHERY, an all-around book that  
every archer will find valuable and entertaining; the  
Stackpole Co., Harrisburg, Pa., published it; the same  
outfit also published BUCKS AND BOWS by Walter Perry,  
and MODERN BOWHUNTING by Hiram Grogan. One of  
the most recent entries into the field is the ENCYCLO-  
PEDIA OF ARCHERY, by Paul Hougham, A. S. Barnes,  
1947. It's a reference work, dealing briefly but effec-  
tively with anything and everything about archery. An-  
other highly recommended volume is THE BOOK OF THE  
BOW, an English work by BOWHUNTING contributor  
Gordon Grimley; it can be ordered through the NFAA,  
Rt. 2, Box 514, Redlands, Cal. So can the NFAA  
HANDBOOK and the NFAA HUNTING MANUAL. Ed  
Farrell's YOU CAN MAKE A BOW—HERE'S HOW was  
reviewed in these pages a few months ago, and it's a must  
for an archer who wants to try his luck with the glue  
forms and clamps. Ed's address appeared in the review.

Hey! We left out TURKISH ARCHERY AND THE  
COMPOSITE BOW by Paul E. Klopsteg, who was men-  
tioned in last month's Arrow Barrel. If you're flight-  
inclined, you have to read it; the book may be out of  
print, but you can try writing Mr. Klopsteg at 2424  
Lincolnwood, Evanston, Ill. Howard Hill's WILD AD-  
VENTURE bears mention, too, although it isn't strictly  
archery.

We don't pretend that this is a complete list; we like  
to feel it's a well-rounded one, though. Many ancient  
and rare works were left out; so were a number of books  
from the '30's, and a few more recent ones. If you  
have a question about a particular book, write us and  
we'll try to help you.

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## Editorial: The "True" Article

(Continued from page 6)

BOWHUNTING has been urging such a program much  
longer than we like to think.

Archers have asked us if the *True* article has done  
any real harm. There is no evidence that it has; cer-  
tainly it has had no effect on the game commissions. At  
a recent convention, a BOWHUNTING editor discussed  
the article with the top game commission people from at  
least ten states: the article, they said, cut no ice with  
them. They're still all for archery hunting.

Even so, it is obvious that half-baked articles like the  
one in *True*, may be believed by some non-archers.  
Which makes the need of an archery-wide educational  
program important in itself. The best bet for it is a single,  
strong national association.

## Editorial: Choosing An NFAA Secretary

(Continued from page 6)

qualifications listed above could serve as the executive  
head of the single national.

A good man is needed—and he's needed bad. If you  
have the qualifications, write to Mr. Clemons, 6203 N.  
17th St., Phoenix, Ariz.

## Editorial: ABA and the Merger

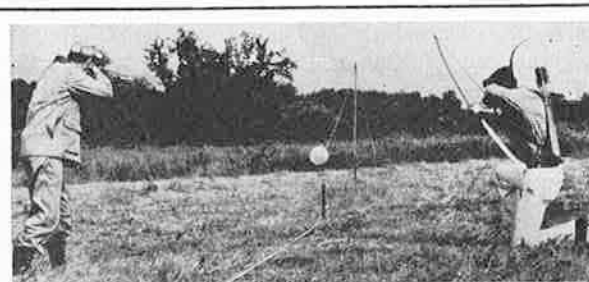
(Continued from page 6)

techniques and equipment specifications and prevents our  
sitting down to resolve our petty differences in a reason-  
able and intelligent manner?" Does the sport fail to see,  
he asks, "that the paramount issue at stake is archery in-  
stead of our own personal interests?"

"We'll never get anything done, one way or another,  
unless we try it on for size," Carter adds. "It will either  
fit or it won't."

ABA is willing to cooperate with the other associations  
in achieving a single national, Carter says, but "all partic-  
ipants in such a project must come into it with an  
open-minded, positive approach which will help to es-  
tablish and maintain a healthy environment of mutual  
understanding and respect for the problems."

"The ABA," he concludes, "is ready and willing. Are  
there any takers?"



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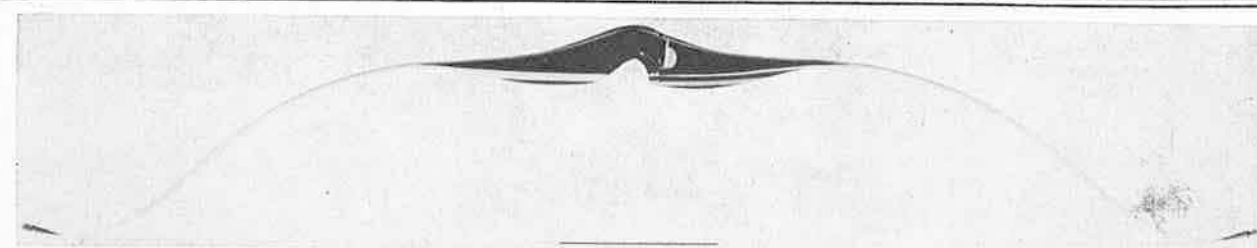
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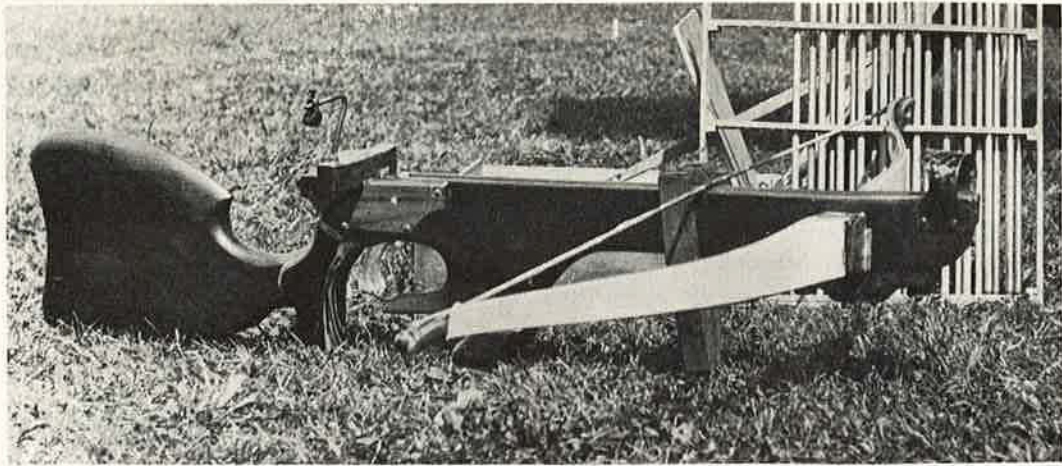
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## THE WORD ON THE MODERN CROSSBOW

In this interview with the man who heads the nation's small but active band of enthusiasts, you'll learn all about a little-known sport

Bowhunters, field archers and targeters know virtually nothing about the modern crossbow. Hence this interview—presented to add to your archery knowledge with the most expert information available. Answering our questions is Francis E. Pierce, the retired Marine Corps colonel who holds many crossbow records and

who, as First Captain, heads the National Company of Crossbowmen.

*Q: Colonel Pierce, how many organized crossbowmen are there in the U.S. today?*

*A: The crossbow fraternity is small in numbers, but it is an active, constantly growing body. There are almost 100 members of the National Company of Crossbowmen in the U.S., and a few scattered members in foreign countries. The NCC was organized in 1951 at the National Archery Association's championship tournament. The Company is affiliated with the NAA.*

*Q: Our readers are probably anxious at this point to learn something about the crossbows you and your fellow enthusiasts shoot, Colonel. Can you describe a typical modern crossbow?*

*A: Most people seeing a modern crossbow for the first time want to know the weight on the string at full draw and the range of the bow. The average weight is from 40 to 60 lbs. at full draw for both sexes, and bows of these weights easily can shoot 200 yards. The draw of the bow is measured from the back of the bow to the releasing device; this is usually from 16" to 20".*

*Stocks are built similar to rifle stocks, but with one main difference; the butt of the stock or cheek-piece has an unusually high comb, about 8" instead of a rifle stock's 4", to afford a rest for the face when shooting the longer*

*Men set crossbow string in the shooting position by placing stock against abdomen; women do the job with the aid of a foot plate.*

*This is Mrs. Fannie D. Brumble, First Lady of the NCC. She holds all world women's crossbow flight records*



*Col. Francis E. Pierce, right, a retired officer of the Marine Corps, is the First Captain of the National Company of Crossbowmen. Here he shoots the clout at this year's target National. The crossbow group is affiliated with the NAA, now has some 100 members.*

*Man in white cap is Paul Eytel, national champ since '53 and the best U.S. crossbowman*



*85-year-old Henry L. Bailey is the nation's only custom crossbow maker. Called the father of the modern crossbow, Mr. Bailey still beats many younger men in target competition*



distance. The bow, either solid fiber glass or wood and glass laminates, is inset into the lower end of the forward part of the stock; sometimes the bow limbs are recurved for added cast. Along the top edge of the stock is a groove called the feather slot which, obviously, forms a path for one of the vanes of the arrow or bolt. Crossbow arrows are about 15" long; for target, they are aluminum or glass with plastic vanes, and 5/16" in diameter. Hunting bolts are mostly feather-fletched woods about 3/8" in diameter. Crossbow arrows do not have nocks; the rear end simply touches the string at full draw.

Another frequent question concerns the releasing mechanism. Most modern crossbows use what is known as the rotary-type catch; it holds the string and revolves when the trigger is pulled. There are other types, but this is the most popular. The catches are made of duraluminum for lightness and strength.

Sights are similar to rifle sights; they consist of a foresight with an inverted pin placed in a hood at the extremity of the barrel, or feather slot, and a rear sight—the usual open "V" for hunting, or a peep sight with range and windage adjustments for target.

When the rules for crossbow target shooting were made, one of the wise provisions incorporated was that all crossbows must be hand drawn—that is, no drawing mechanism such as windlasses, cranequins or compound levers are permitted. The rule was made to keep bow weights within reasonable limits. There is no objection to a foot plate being used as a drawing aid, and this method is very popular with the fair sex. Men place the butt of the stock against the abdomen and draw the string to cocking position with both hands. (Ed. Note: Col. Pierce did not tell us about crossbow strings which, we observe, seem to use about twice as many strands for a given weight than a longbow string.)

*Q: Where do enthusiasts purchase their crossbows?*

*A. The acknowledged father of the modern crossbow, the man who perfected it, is Henry L. Bailey of Elizabeth, N. J. Mr. Bailey is 85 years old, and he is the only custom builder of crossbows in the nation; his bows, which cost about \$75, are sold all over the world. Mr. Bailey still shoots at the Nationals, making scores that arouse envy in much younger contestants. Mr. Bailey's*

*(Turn to page 23)*

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## MARYLAND

### Commission Proposes Big Game Stamp; Less Shoots Per Club Next Year; Hagerstown Gets '60 State Tourney

By RALPH BROWN  
(President, AMBH)

Maryland's Game & Inland Fish Commission is proposing a big game stamp in the up-coming January session of the state legislature. The Association of Maryland Bowhunters proposed a \$2 stamp for hunting archers in '57 and we're still in favor of such a stamp. As for the proposed big game stamp, I cannot see how it would benefit archers unless some differentiation is made between gunners and bowhunters.

The '60 tournament schedules will go to press in December. There'll be four instead of six regions in '60, with approximately eight clubs to a region save for the Eastern Shore area. This will lessen the number of tournaments to be held by each club and thus the participation at each tournament is expected to increase.

The 1960 state championship shoot will be held at the course of the Creek Waltonian Bowmen, Hagerstown, on Sept. 3-4-5.

The Free State's archery deer season was rather disappointing in the number of deer taken, with the bag at this writing down some 40%.

### How Do Modern Crossbows Work? Here's The Info About Sights And Release Mechanisms—And Bolts

(Continued from page 21)

address is 72 Summit Rd., Elizabeth.

Of course, many people make their own crossbows. The National Company of Crossbowmen sells the plans for the Bailey crossbow with Mr. Bailey's permission.

The plans include a 4' blueprint showing each part in exact size; full instructions are included for making the bow, the stock, the trigger and catch mechanisms and the arrows. As the Company is a nonprofit organization, all funds derived from the sale of plans are used for buying trophies and for postage. The plans cost \$5, and they can be obtained from headquarters, 1024 Glorietta Blvd., Coronado, Cal.

Making a crossbow stock is a comparatively simple operation for the mechanically-inclined person, particularly if he has access to power tools. Fiber glass blanks for making solid glass limbs cost very little; completed limbs can be purchased from Mr. Bailey at around \$20. Composite limbs are, of course, made the way a longbow is made. E. Bud Pierson & Son, 3109 Burnet Ave., Cincinnati, sell blank composite limbs, already glued. Interestingly, the present ladies' champion, Mrs. Margaret Breneman, uses a bow made from a Pierson blank; it cost her \$12.

*Q: What sort of rounds do crossbowmen shoot? How accurate are crossbowmen at the various yardages?*

*A: Crossbowmen shoot target faces 1/2 the size of those used by longbow archers. The only exception is the clout, where the same size ring is used. The American Round for example, consists of 90 bolts shot 30 each at*



Col. Pierce, the subject of this interview, watches his fellow crossbowmen on the line at NAA Nationals

60, 50 and 40 yards at a 2' face. The highest Single American was made in 1956 by Paul Eytel, the top target crossbowman in the country. He scored 360 hits for 2854, with *no misses* in the four rounds. Included in this feat were five perfect ends and a record Single American round of 90 hits for a 736. At Lancaster this year, Paul won his fifth national title. Paul's wife, Lillian, after having been ladies' champion for several years, was defeated at Lancaster by Margaret Breneman. Mrs. Eytel holds the record for the exacting Queen's Round, with 45 points out of a possible 60.

The crossbow clout record is 35 hits for 307. Thirty-six hits and 324 points is perfect. As for flight, improvements in materials result in new records every year. Incidentally, special bolts are shot in flight events, the best ones having only two vanes, the rear end of the bolt being modified to make, in effect, a third vane. Like longbow flight arrows, crossbow flight bolts are barreled.

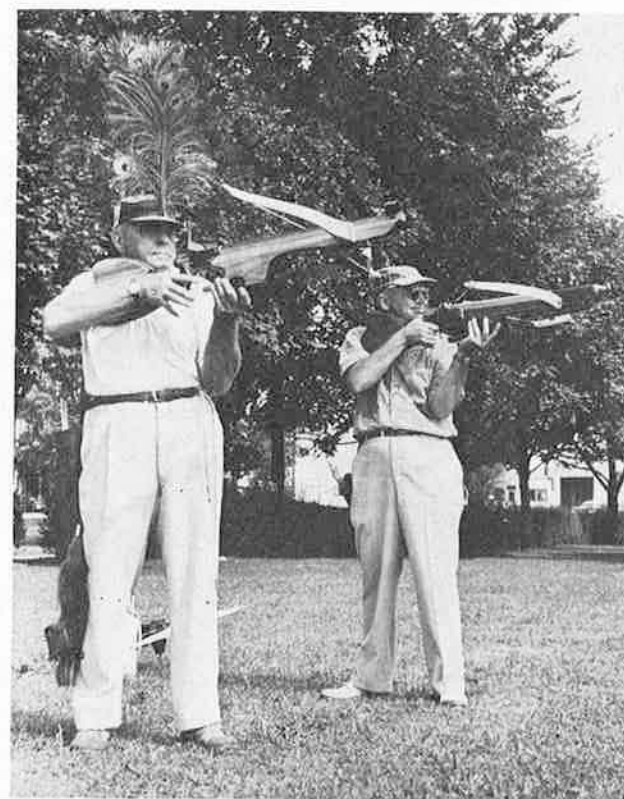
Flight events are divided into classes by bow weights—35, 50 and unlimited for women and 50, 65, 80 and unlimited for men. Mrs. Brumble holds all the records for the ladies, her unlimited record being 547.67 yards. I have been exceedingly fortunate to capture all the flight records made this year, including 668 yards for a new unlimited world's record.

*Q: That brings up an old, old question. Which is capable of more accuracy, the longbow or the crossbow? Can you evaluate other differences between the two?*

*A: The gold bullseye on our targets is 1/4 the area of the bullseye of a target archery face—yet we shoot the same distances and make scores as good and better. The*

(Turn to page 24)

Most modern crossbows have solid glass or composite limbs with draw weights ranging from about 40 to 60 lbs. Front sights are fixed; rear sights can be adjusted for windage and elevation. Note peacock feather in cap of crossbowman in the foreground



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## The Crossbow: Hunting and History

(Continued from page 23)

longbow's shooting speed is *much* greater, four or five times so. But accuracy counts for a lot and, further, the crossbow can shoot a heavier arrow, so take your choice. Crossbowmen shoot bows 10 to 20 lbs. heavier than longbowmen, too.

As to flight distances, one thing is always in favor of the longbow—the cast. Remember, the longbowman simply pulls the string back to his accustomed draw length and, after raising his bow to the 45° angle, lets go. The

crossbowman must first draw his bow, then place his bolt on the barrel of the stock and then raise the weapon to the 45° elevation before releasing.

Unquestionably the *speed* of release is much in favor of the long bow, as the cast of any bow decreases with the length of time it is held at full draw. Thus it is doubtful if the crossbow will ever equal the longbow in distance shooting. The fatal let-down decreases the cast.

*Q: How about crossbow hunting, Colonel?*

A. Crossbows have been used for hunting ever since their invention in about 1000 A.D. But crossbow hunting is almost non-existent in the U.S. today, because the crossbow is banned as a hunting weapon practically everywhere. Why? The National Company of Crossbowmen is at this very moment contacting the nation's game commissions to determine the thinking of the conservation officials. It is interesting to note that, in 1139 A.D., the Lateran Council, following an earlier ruling by the Pope, declared the weapon hateful to God and too barbarous to use—unless used against infidels and heretics! All this came about because the ruling class of knights found themselves no match against common soldiers armed with the weapon.

I think a carry over of this ages-old feeling is partly responsible for suspicion of the crossbow today. Most people and most archers say the crossbow is too dangerous for hunting. But they cannot tell you why they think it is more dangerous than the longbow, or where statistics can be found to prove the point. When pinned down, many people come up with the weak argument that the crossbow "isn't really archery anyway."

It would appear that many states passed the anti-crossbow laws without sufficient inquiry into the matter—or else they simply copied the laws of other states when writing their own archery regulations. (Ed. Note: This is probably the heart of the matter: most states' archery laws are modeled on those of some other state.)

The notable exception is Arkansas, which encourages crossbow hunting. And there has never been the slightest trouble connected with crossbow hunting in Arkansas.

A number of members of the Company have hunted with the crossbow, even killing such game as the puma. For many years, while on active duty, I hunted man-eating tiger sharks in the Bay of Pearls in Panama. I for

## VIRGINIA

### Archer Bags Two Deer in 15 Minutes— One in Virginia, One in West Virginia

When it comes to good luck—and to resourcefulness, too—you've got to hand it to Bob Riggelman, Hinton, Virginia. On October 21, wearing a West Virginia non-resident license, he killed an adult doe just inside the state line; he was hunting along a Forest Service road in the vicinity of Reddish Knob, Pendleton Co.

After bagging the doe, Riggelman crossed the border into the Old Dominion; this time, he was sporting a Virginia resident license. Just 15 minutes later, he brought down a handsome buck. Some people. . .!

one cannot see why the crossbow should be prohibited for hunting in any of the states that now permit regular bow-hunting. Remember, a crossbow rapidly loses its cast or velocity when held at full draw—which means that it must be drawn to make a shot when game is sighted. This movement is likely to scare the game. My point is that the odds favor the longbow archer who, with a minimum of movement, may get off several arrows to the crossbowman's single bolt.

*Q: Of course, the crossbow has played a role in war as well as in the chase. Can you give us a brief history of the crossbow?*

A: The crossbow's origin is lost in history, but the weapon first appeared in warfare about the time the Normans invaded England in 1066. Both England and the nations of Europe used the crossbow as a military weapon in the early 12th century. In spite of the Pope's ban, we find that Richard I armed his men with it. And Richard, England's king from 1189 to 1199, was an expert crossbowman.

For about 2½ centuries the crossbow was the favorite weapon on the Continent and during the period—1200-1460—was brought to a high state of perfection. The Latin nations, and especially the Genoese, were famous crossbowmen, and numerous companies of mercenaries, crossbow-armed, were hired by various nations for land and sea services. Steel bow limbs were developed and with them complicated levers and ratchets to draw the bow. Some crossbows, used in the defense of castles, had as much as 2000 lbs. tension on the string at full draw! With the development of gunpowder, the crossbow gradually disappeared.

*Q: How and when did you become interested in the crossbow, Colonel? Are you a converted longbow enthusiast? Do you build your own crossbows?*

A: Yes, I'm a converted longbow archer and, like many crossbowmen, I became a convert by necessity. Following a heart attack I was forbidden by my cardiologist to shoot the longbow, which I had shot for some 20 years at national tournaments. As I had always had much more than a passing interest in all forms of archery and

(Turn to page 33)

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By TOM BLAKE

(Bowhunting Correspondent for New England)

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Young David Towne of Hinsdale was so surprised when he came face to face with a whitetail standing only eight ft. away that he shot way over the animal. His father said Dave aimed his arrow high enough for an 80 yd. target.

Hunting season runs through Dec. 21. To escape competition with gunners most archers are seeking their quarry in Bear Brook State Park.

Indoor shooting is getting underway around the state. The White Mountain Field Archers are using Jackson's Hall in Bethlehem. Joe D'Etcheverry, Highland Ave., Littleton, can supply information about the program for archers in the vicinity.

June Burke, 204 Gilford Ave. Laconia, says the Belknap Bowmen are shooting on Friday evenings at the Opeechee Park Club House on North Main St. They're looking for new members.

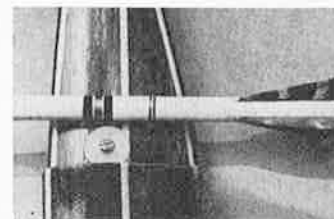
The Franklin Field Archers, headed by Ken Worden,

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#### Vermont:

Bowhunters in the Green Mountains took at least 206 deer during Vermont's 16-day season. A few late reports are still coming in at this writing. Last year's record kill was 150 whitetails.

Ten counties reported archer success, Rutland heading the list with 39, Windham 37, Windsor, 32, Bennington 26, Orange 23 and Washington 19.

The Vermont Bowmen are mighty proud of their exhibition team which gave many performances this year. The objective of the unit is to stir up interest in archery and spark membership in VBI clubs.

The team won high praise wherever it appeared. Dressed in flashy uniforms of black shirts and off white slacks the team prompted such remarks as "they're terrific"—"must be professionals."

But pros they aren't, just archers dedicated to promote the sport. The team members are Hazel and Ron Cruickshank, Vi Whitman, Dick and Don Jolivet, George Copeland, Whitey Edson, and P. G. "Perk" Angwin, outdoor writer for the Barre Times, who narrates the exhibition.

#### Maine:

George Jones, a past president of the Maine State Archery Assn., bagged his first deer after 10 years of bowhunting. It was a button buck downed with a 35 yard heart shot and was taken near Stratton in the Flagstaff Lake Region. George hails from Randolph. At the moment the kill is between 15 and 20 deer.

#### Connecticut:

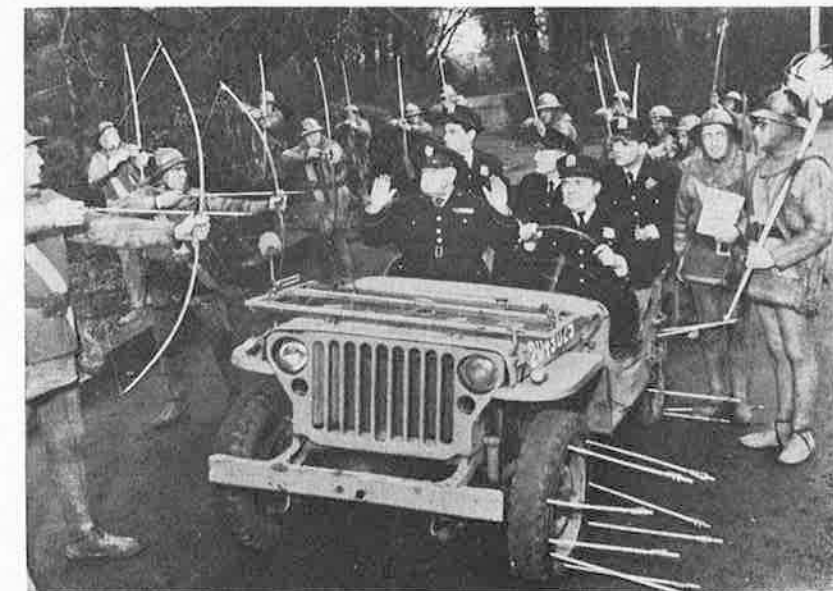
Bowmen can hunt deer on privately owned land in the state, but they must carry with them the written consent of the landowner, or his authorized agent. The season is open Dec. 1-31. One deer of either sex may be taken. No Sunday hunting. Licenses to hunt deer with bow and arrow are issued only to person 16 years of age or older.

#### Massachusetts:

The administrative board of the state Division of Fish and Game has approved the wording of proposed legislation for a pre-hunting season archery stamp.

The law would permit the sale of an archery stamp for \$2.10, with 10¢ going to the city and town clerks and \$2 to the Division. The stamp would be in addition to the regular hunting and sporting license costs. Bowhunters would hunt during the regular gun season without a stamp. The deer stamp would apply to the special two-week bow season for deer.

The Powow Bowmen, of Amesbury, used a new challenge trophy idea this year which worked out pretty well, says Ed Hussey, reporter for the club. The Powows bought four handsome awards for each class and proceeded to shoot for them. Whoever holds the trophies has to be challenged at least once in two weeks or automatically loses possession. Archers may challenge up a class but not down. At the end of the season when the



Here's a scene from a movie archers won't want to miss. Called "The Mouse That Roared," it's about a tiny kingdom which declares war on the U. S. and invades New York with a 20-man army of longbowmen. The Columbia film, which spoofs international diplomacy, features such scenes as an archery attack on the ship "Queen Mary." New York? It's captured!

club shoot is held, the person holding the trophy gains permanent possession. Incidentally, men and women compete on an equal basis.

The Parks and Recreation Commission of Worcester is sponsoring archery instructions at Beaver Brook Community House. Paul Howe, president of the Worcester Archery Club, is one of the instructors.

#### Rhode Island:

Ray LaPlante, Central Falls, prexy of the state field archery association, says he has worn out three pairs of hunting boots in search of deer, but no success as yet. Either the terrain must be rocky or the whitetails few and far between.

Last year there were 324 bowhunting licenses issued, and only one deer was taken. Late dates for the season are Jan. 5-25, so archers still have a chance.

The Division of Fish and Game issues a wonderful booklet of maps of state-owned lands open to hunting and fishing. A very handy reference to have around.

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HUNTING ARROWS—2, 3 or 4 blade broadhead, 11/32 shaft, full dip—white or yellow—3 bar crest. Matched to your bow. \$10.00 per dozen. Postage prepaid. Cash with order. ROGERS ARCHERY, 1459 Stevens St., Philadelphia 49, Pa.

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## PENNSYLVANIA

### '59 Bowhunters Now Estimated At 80,000-85,000; PSAA Clubs Now Number 172, with 6237 Cards Issued

By CLAYTON B. SHENK  
(Secretary, PSAA)

At this writing it doesn't look like my prediction of 100,000 bowhunters for the recent Pennsy season will be reached; the state issued 96,500 licenses to the county treasurers and of these, an estimated 80,000-85,000 have been sold. That's still tops in the nation! The deer kill was last reported at 1150.

Speaking of figures, there are now 172 clubs affiliated with the PSAA, and in '59, classification cards numbered 6237. I note that 2044 archers have been reclassified during the year. Our classification system really works well: if other states want information about it, they can write to me at Ronks, Pa.

I've spoken to at least 18 members of the state legislature, most of them active on the various committees concerned with conservation, and none has received a complaint based on the recent rash of magazine articles which damn the bowhunter. The same goes for the Pennsylvania Game Commission.

Even so, the PSAA is concerned about archers accepting their very definite responsibility to learn to shoot properly before attempting to hunt.

### Dates Set for 1960 NAA National

The 76th annual national championship tournament of the National Archery Association (NAA) will take place Aug. 1-5 on the playing fields of Miami University, Oxford, Ohio, NAA officials have announced.

### MISCELLANEOUS

LAMINATIONS—Fine quality, perfection ground for perfect glue joints. Osage Orange air dried 10 years, parallel pairs: 1 1/2" x 36" \$1.25, 1 3/4" \$1.50. Maple 1 1/2" .85, 1 3/4" \$1.00, 1 3/4" \$1.25. Any quantity. Tapered. GOURLEY ARCHERY MFG. CO. 1327 So. Urbana, Tulsa 12, Okla.

NOCKS! NEW PRICE! 1/4", 9/32", 5/16", 11/32" red, blue, green, white, black, orange, yellow. 90¢ per 100, \$4 per 500, \$6 per 1000. Postpaid, cash with order. ROGERS ARCHERY, 1459 Stevens St., Philadelphia 49, Pa.

NOCKS—Guaranteed superior, 100 finest quality nocks \$1 postpaid. Size 5/16, 11/32, 9/32, 1/4, 1000 nocks \$8. Colors: white, black, red yellow, green, blue, orange. Specify color and size. For sample nock and price list, send stamped self-addressed envelope. W&W Mfg. Co. 725 West Olive St., Ft. Collins, Colo.

ACCORDIONS—Save up to 50%. CONNELL MUSIC, 101 South Brown St., Gloucester City N. J. Member ABA.

### TARGET FACES

TARGETS! 28T set, field, 60T-175 lb. corr. board, \$6.50. 14T set, 1959 hunter size-34T, \$7.00. Postpaid with check, money order in Handy Carry Field Packs. Samples. Volume prices on request. WIL-S-CORE TARGETS, Box 65, W. Winfield, N.Y.

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## Sherwood Forest—Yesterday and Today

(Continued from page 13)

Even so, one man decried the changes taking place; he was Robert White, and in his book, "Sherwood Forest," he writes: "In Woodman Dale, where I wandered as a child, there has been little or nothing for a woodman to do for three generations at least. All down Forest Lane factory chimneys are springing up where majestic oaks once marked the scene."

Today, the words Sherwood Forest appear vaguely on the tourist maps. In some spots the woods are extensive. In the northern part of the area are many ducal estates, and the region is called the Dukeries. Some of the lands and houses are privately owned, such as Thoresby, where the woods cover many acres. The Nottinghamshire County Council owns other lands, as does the National Trust. Clumber Park, owned by the Trust, consists of 2000 acres. There's no hunting, but fishing is allowed.

If you ever go to Nottinghamshire, you will find that Sherwood Forest indeed does have its share of smokestacks and pit heads; places like Blidworth, Welbeck, Thoresby, Clipstone, Rufford, Ollerton and Rainworth are villages in the mining area; Mansfield, Warsop and Workshop are good-size towns. But there is farming, too, and some of the charm of rural England is said to remain.

As for Robin Hood, his name is very much alive. Some of the old places connected with him are gone—a cave at Papplewick, called the Robin Hood Stable, is just a depression in the ground; St. Ann's Well was long ago obliterated by a railway viaduct. But you can see a 1000 year old tree called the Major Oak; it is located 16 miles from Nottingham, near Edwinstowe, and the outlaw and his men are supposed to have hidden near it. Nearby is the Shambles Oak, also called Robin Hood's Larder; there, the merry band stored its food.

In Nottingham, there is a statue showing Robin Hood

drawing a longbow. It stands on Robin Hood's Green, near the entrance of Nottingham Castle. (We read recently that vandals had damaged the statue). Other groups of sculpture on the Green show Friar Tuck reading, Will Stuteley watching Little John make a bowstring and Allan-a-Dale, the minstrel, playing as Will Scarlet looks on.

As for archers, Gordon Grimley reports the existence of 14 clubs in Nottinghamshire. "The two major events of the year for these men of the bow," writes Gordon, who helped us tremendously in gathering information for this article, "are the contest for the Sheriff of Nottingham's Golden Arrow and, since 1956, the Robin Hood Festival Match between local bowmen and a team of American archers from Sherwood, Oregon; each team's scores are relayed by cable."

As for the Sheriff of Nottingham, there still is one—in the person of a modern police officer. Indeed, the famous H. P. White ballistics laboratory recently received a communication from the Sheriff, who announced his intention of subscribing to the laboratory's police ballistics service.

There are Robin Hood Lanes, Robin Hood Hills, gates, wells, streets and so on, named in recent times, mostly, by people proud of their local folk hero. And, although none have been reported to us, we're willing to bet that there are at least a dozen Robin Hood pubs. Knowing the English and their civilized concern for convenient conviviality, probably more.



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2 blade \$1.75 doz.

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# WHY?

By LARRY WALSH

I have a letter from an archer, and this archer has a dream: can he get exactly the same arrow trajectory from his 34 lb. tournament bow as from a much heavier hunting bow?

His dream is shaded by countless others who shoot in tournaments and who wander the game trails come hunt-

ing season. The answer isn't as difficult as you might think.

Go by this rule of thumb: "For every ten grain increase in arrow weight, add 1 lb. of bow weight, calculated at the archer's draw length."

The reader who queried me has been shooting 330 gr. arrows from his 34 lb. tournament bow. His broadhead-tipped arrows weigh 550 gr. That's an increase of 220 gr. in the weight of the arrows; using the thumb rule, this calls for a bow weight increase of 22 lbs.—meaning a 56 lb. hunting bow.

Of course the arrows for each bow must be properly spined. And the fletching must be similar. The larger feathers fletched to the hunting shafts will create drag when mounted on the tournament arrows. But only at the longer ranges. And the archer in question mentions he's primarily interested in shooting the tournament arrows only up to 40 yards, meaning the drag caused by the heavier feathers will be negligible. Thus our field archer can put away his tournament bow before the deer season opens and, with plenty of practice to sharpen his aim and build up his muscles, be on target easily with the heavier hunting bow.

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Rocketeer • Arrow Mate

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199 Connecticut Ave., South Norwalk, Conn.

## NEW JERSEY

### Jersey Tree Hunting Pays Off; Better Bowfishing Seen For 1960

By BOB DEGENHARDT  
(Bowhunting Correspondent for New Jersey)

Tree hunting for deer is more popular in the Garden State than we suspected, judging from the the comments received in response to our recent BOWHUNTING article.

Gene Butler, Eatontown, new prexy of the Algonquin Archery Club, reports that the four club members who took deer did so from the branches—Al Crawford, Greg Adcock, Howard Dunfree and Butler himself.

Another Central Jersey tree hunter nailed a deer after ascending the heights by means of a rope tossed over a high branch; in his excitement after the kill he grabbed a loose end of the rope and tried to slide to the ground. Down he went, rope and all, fortunately without injury.

For the benefit of their friends, here are some more successful Jersey bowhunters. Ronald Bensley, Bloomfield, took his sixth deer; 16-year-old Don Roll, Upper Midvale, nailed a 180 lb. ten-pointer; Art Bucher, after eight fruitless years, got a big doe; Adam Zrodowski, Anthony Peterpaul, Al and Bob Koshnik and Bob Brown also connected.

When the season was about three quarters over, Fish & Game officials reported 500 deer taken; final reports will increase the figure tremendously, we predict. 1200 whitetails were bagged by archers in '58.

JERSEY NOTES: Expanded bowfishing activity seen for '60 with the new liberal resolution adopted by the Fish & Game Council . . . all species legalized except trout, salmon, bass, pickerel, trout . . . means eels, suckers,



So the Miss America Pageant has been over nearly three months? So who cares? This is an excuse to show some pretty girls. And there's even an archery angle! At the left is Ann Marston, once NFAA free-style champ, who competed in the pageant as Miss Michigan. Here, she passes out free archery sets to (l to r) Miss Indiana, Miss Arkansas and Miss Colorado. Archery Manufacturers and Dealers Assn. (AMADA) gave a set to each girl in contest

herring, bullheads can be taken in addition to carp . . . SFAA-NJ awarding deer patches . . . setting up new committees on administration and public relations . . . planning annual dinner for January . . . announced the award of 311 20-pins and yardage bars since March . . . setting up stringent suspension measures against clubs holding non-scheduled tournaments.

Indian Hill Bowmen, Keyport, have again leased the Red Bank armory for open indoor shooting each Tuesday night until April 26 . . . novelty, Flint round, class, team and trophy shooting from 7-11 p.m.

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- Cat. BAK-550 Do-it-yourself kit; 12 shafts, points att. or swaged for broadheads; 3 doz. white & dyed white feathers, 1 doz nocks. All shafts swaged for nocks. \$12.95 ppd.
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Add 50c to BAK-550 and BATS-200 if you want shafts dipped in special formula to assure permanent fletching. Give bow weight and draw length when ordering. No COD. Pennsylvania residents add 4% sales tax.

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LENGTH:

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BY ROSS V. SMITH

Winter activities give an archer a chance to get out and take lots of pictures either in color or black and white. Too many of us store the camera away for the winter months, not realizing that wintertime picture-taking can mean exciting action-packed prints. In fact, those dark shadows under trees will be greatly softened by the reflected light from the snow, unlike our summer prints. Well-lighted shadows always make for good black and white and color pictures.

The best days for taking pictures in winter are the bright, clear, sunny ones. Avoid shooting on dull days; it makes your prints drab and rather flat-looking. By shooting on bright sunny days you will catch the sparkle in the snow. Secondly, stand with your camera so that the scene or subject is lighted either from the side or from the back. This will produce very pleasing effects and show the texture of the snow.

Not only will you get pleasing prints taken by "back-lighting" but your buddy won't have to squint into the sun; it's behind him. That means a more natural "at ease" pose.

When taking pictures facing into the sun, it's necessary to shield the lens from the sun's rays, or you can buy an inexpensive lens hood to fit your camera.

Because of the reflection from the snow around you on trees, bushes, and on the ground, you are getting a great amount of "extra light" and therefore must stop down your lens aperture to its smallest opening to avoid those over-exposed (too dark) prints. Here is a simple guide to follow: (a) For a general scene back-lighted and without people in the foreground on a bright clear and sunny day using colored film such as Ektachrome or Anscochrome shoot at a speed of not less than 1/50 a second at f/11. If the land is covered with fresh glistening snow set the aperture one stop more (f/16). And if the scene is side-lighted use f/11. (b) If the same scene and conditions are present including people in the near foreground, open the aperture to f/8. (c) When using black and white film such as Plus-X or Verichrome Pan, the exposure should rarely be less than 1/50 of a second at f/22, opening up to f/16 for people standing nearby.

Remember that sun-cast shadows on snow under a blue sky are blue and it is natural for them to appear blue in a color photograph of that scene. If using either Anscochrome or Ektachrome film use a Skylight Filter to re-

(Turn to page 34)

Many archers have eliminated their straightening problems by switching to

**MICRO-FLITE**

WHY DON'T YOU?

## The Word On the Modern Crossbow

(Continued from page 25)

because Mr. Bailey had just brought out his modern crossbow, I received my physician's permission to use a crossbow in "moderation." This was back in the late '40's after I had been released from the service. Much to my amazement, I found an aspect of archery that had been practically untouched and where the chances for research were immense. So my association with the crossbow has become a fascinating hobby. As really good crossbows are practically unknown on the market, I have been forced to make my own, experimenting with various materials and using Mr. Bailey's designs. With the aid of others likewise interested, the weapon has gradually evolved. The field for improvement is still large, much larger than the longbow because relatively so little work has been done. And thus it is all the more fascinating. And I recommend it as exercise for cardiac patients.

*Q: Does the National Company of Crossbowmen welcome new members? How can interested archers get in touch with the company?*

*A: Because of the unusual appearance of their equipment, crossbowmen always attract attention at tournaments. It is unfortunate that, when shooting, we crossbowmen cannot take time out to answer the many questions put to us. One of these days we are going to station some well-indoctrinated crossbowman behind the shooting line to answer questions!*

Certainly the NCC welcomes new members, and we try to assist them every way possible. Membership is in two classes. *Active Members* are also members of the NAA and thus may shoot in any NAA tournament and compete for the association's crossbow division awards.

Let me emphasize here that crossbowmen *never* compete against longbowmen in tournaments.

*Associate members* are members who do not belong to the NAA but who shoot in local crossbow clubs or archery clubs having a crossbow contingent. Company dues for both classes of members are only \$1 a year. Applications may be sent to me at 1024 Glorietta, Coronado, Cal., or to the Scribe, Frederick W. Isles, 10 Arlington Rd., Cranford, N. J. The ladies apply through Mrs.



Crossbowmen shoot the King's and Queen's Rounds at the NAA National only. Six bolts are shot at 40 yards, one bolt at each 4 3/4" target. A perfect score is 60. Hits in outside ring count 9, hits in 1" bullseye count 10. The round is open only to the three men and the three women who've shot the highest Single American round in tournament

Fannie D. Brumble, First Lady, NCC, 3658 Epworth Ave., Westwood, Cincinnati 11, Ohio.

Each new member receives a membership card and a shoulder patch with the Company's insignia. He is placed on our mailing list and may receive, upon application to Mr. Isles, a list of the members, information of the King's and Queen's Rounds and information on our system of heraldry—which one can use to denote at a glance the standing of a crossbowman on the shooting line.

A warm welcome will be extended to new members, and I invite correspondence from interested archers.

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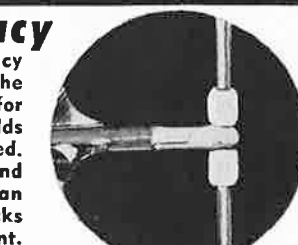
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only 50¢ pair

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## The Snap Shooter

(Continued from page 32)

duce the bluishness. With Kodacolor film, no filter is necessary.

When taking close-ups of bowhunters, animals, etc., where little snow actually appears in the picture, the scene is classed as "dark" and in order to catch the dark area features, open up the aperture to f/8. Only very light-colored subjects (if for example the archer is wearing a white sweater) would be classed as "light." In this case, front-lighting works fairly well. Side-lighting and more especially back-lighting will give beautiful results. Remember too, that side- and back-lighting close-ups take a wee more exposure than front-lighting.

Unfortunately there are two or three pesty nuisances inherent in taking pictures in wintertime, but with a little foresight these nuisances can be overcome. The first nuisance is condensation or snow getting on the lens. If you have been outdoors taking pictures and then come into the house, moisture will condense on the camera when it begins to warm up.

Moisture on the lens will cause blurred pictures. Don't

attempt to take more pictures right away; allow the camera time to get thoroughly warmed up to allow such moisture to evaporate. And when snow lands on the lens, wipe it dry and carefully shield the lens until the picture or pictures have been taken.

To speed up this evaporation it's always wise to wipe off the whole camera. The covering of your camera may be imitation leather, which is glued on; if moisture should condense on it and wet the covering thoroughly, there's a chance of the material peeling off. And avoid snow flying into the exposed mechanism of the camera. Never oil any parts of a camera.

Another good reason for using a filter such as a Kodak Skylight filter for color or a Wratten K2 (yellow) filter for black and white is that it will keep snow off the lens. Of course snow will get on the filter, but a filter is far easier to wipe clean than the lens.

When advancing film in your camera from one number to the next be sure that you do it with a smooth, even motion to prevent snapping the film in two. A film, when cold, becomes quite brittle. While most films are packaged to resist changes in their moisture content, some still tend to dry out if kept for any length of time in a heated house where humidity is low. It's wise to place the camera in a part of the house which stays cold. This preconditions the film.

At the close of day, when you want to take some flash pictures of the successful archers, remove the batteries from the unit and let them warm up before using. Once batteries are thoroughly cold they will fail to deliver enough current to flash the lamp. But they'll revive after they've warmed up. The best way to overcome this handicap is to carry the batteries around in an inside pocket during the day so that they will be sufficiently warm enough to use when the time comes.

(Author's Note: I wish to thank the many readers for their enquiries and kind letters in reply to their solved problems. If you have any questions or faulty prints and would like to know the cause, drop me a line with the print and the negative, if possible, to P.O. Box 51, Lively, Ontario.)

STATEMENT REQUIRED BY THE ACT OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 (Title 39, United States Code Section 233) SHOWING THE OWNERSHIP, MANAGEMENT AND CIRCULATION OF:

BOWHUNTING, published monthly at Riderwood, Md., for Dec. 1959.

NAME	ADDRESS
1. The name and address of the publisher, editor, managing editor, and business manager is:	
Publisher: THE EASTERN BOWHUNTER, Inc., Riderwood, Md.	
Co-editors and Managing Editors: William Stump, Riderwood, Md., G. Howard Gillelan, 4826 Roland Ave., Baltimore 10, Md.	
Business Manager: G. Howard Gillelan, 4826 Roland Ave., Baltimore 10, Md.	
2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member must be given.)	
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None.	
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5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semiweekly, and triweekly newspapers only.)	
WILLIAM STUMP	
President, Eastern Bowhunter, Inc. and Co-editor.	
CLARA E. AMSEL	
(SEAL)	
(My commission expires May 1, 1961.)	

## NEW YORK

### Mid-Hudson Federation Is Pushing A 56-Target Course For Fahnestock State Park; Support Is Sought

Jack White, secretary of the Empire State's Mid-Hudson Federation of Archery Clubs, has sent a letter to clubs in southern New York and Connecticut seeking endorsement and support of his organization's hopes to see a field archery course built in a state park.

The park, Fahnestock, is located on the Taconic State Parkway in Putnam Co. Halfway between New York and Albany, it is easily reached from Connecticut and the Bear Mountain Bridge.

This site, White explains, surrounds the ski area on the park grounds. "There is a parking area large enough to handle 600 automobiles, bathroom facilities and a large building to take care of registrations."

The general manager of the Taconic State Park Commission has expressed interest in the idea and has asked for an appointment with archery groups to explore the situation.

The idea behind the course? White says: "It is felt that a course at this centralized location will be of benefit to the Federated Archery Clubs of Connecticut and New York, the Southern District Archery Federation and the Mid-Hudson Federation for the purpose of holding championship tournaments at an independent and unknown course.

"It is also felt," adds White, "that the state park would be an ideal place for a Spring area shoot.

"What we would like from all the clubs in the area is a letter endorsing the plan.

White's address is Orchard Place, Hopewell Junction, New York.

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## \$6000 IN CASH, \$2000 IN MERCHANDISE ANNOUNCED FOR FEBRUARY BEN PEARSON OPEN

The Ben Pearson Company's Jack Witt announces that \$6000 in cash and \$2000 in merchandise will be awarded at the second annual Ben Pearson Open, an indoor tournament set for Feb. 13-14 at the Goodyear Field House, Akron, Ohio.

First prize money for men's individual competition will be \$1000, second will be \$500, third \$300 and so on down to \$75 for ninth place. The top woman will win \$800, and prize money for the next five places will range from \$400 to \$35.

The winning team will win \$1000, the second and third teams \$500 and \$200 respectively. Fifteen merchandise prizes worth \$2000 will be awarded on the basis of handicaps determined by a drawing; first prize is a \$310 silver service, second a movie camera, third a Polaroid camera and the next sixteen Ben Pearson archery equipment.

Registration for the tournament must be made in advance; write to Jack Witt, Ben Pearson, Inc., Pine Bluff, Ark. Individual fee is \$10; a team fee is \$25. In registering teams, list the names of members.

Instinctive and free-style archers shoot on the same basis, and there are no classifications; the handicap takes care of that. Individuals shoot two Chicago rounds, each consisting of 16 ends of 6 arrows, 20 yds. at a 16" face, and so do teams, members of which must be residents of the same state.

For a program, check your local sporting goods or archery dealer, or write to the Ben Pearson Co.

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**Novelty Shooting:**

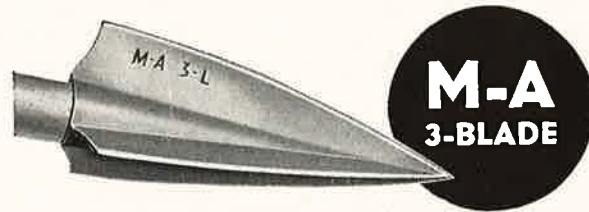
**You Can Bust Eggs, Ride Logs And Shoot Apples From Wm. Tell's Head**

Still looking for novelty shoot ideas? Here are some more. They're more than ideas, though—they've been tried out by the Newfane Bowmen, Newfane, N. Y., who passed them along to us.

**EGG SHOT.** Take coat hanger wire, about 1' long, and bend a circle at one end so it'll hold an egg without letting it fall through. Stick the other end of the wire in the bale. The Newfane club purchases cracked eggs, which work well; some eggs are colored, and these count for additional points when busted. About a dozen eggs can be used at once.

**WILLIAM TELL DUMMY:** Stuff a shirt and a pair of pants with straw. Make a cardboard head. Place the dummy in front of a 50 yd. bale. Hang an apple with a rubber band from a wire above the dummy's head. Points are awarded for hits in the apple, points subtracted for hitting the dummy.

**SWINGING LOG:** A log of about 1' in diameter is suspended from tree limbs by ropes at each end, the ropes going through screw eyes. The log should be about 4' long. Tie a Western saddle to the log if you can get one. When an archer climbs on, the log is set in motion; the archer's supposed to shoot at a target face about 30 yds. away.



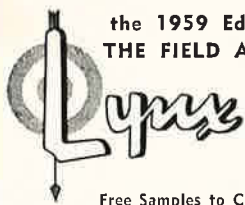
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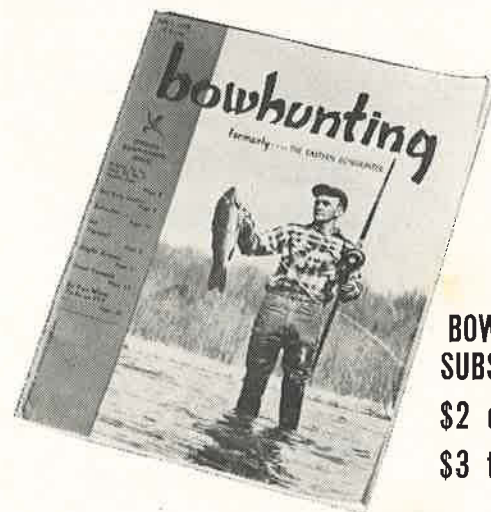
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BOWHUNTING Magazine Riderwood, Maryland

BOWHUNTING, December, 1959

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- FISH ARROWS
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- ARROW NOCKS
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Beautifully crafted, this two-tone shoulder quiver carries 20 arrows in two compartments. Broad adjustable shoulder strap keeps quiver riding in exact same position. Styled with knife sheath on zippered accessory pocket... designed in dark brown and cream elk-tanned leather.

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You'll Find It On Page 4

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This is the first practical steel stand for year-around use, indoors or out. Light, portable, sets up in minutes. No exposed parts to damage arrows. Low target helps correct overshooting.

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Place foot on crossbar to push anchor-rods into ground. Position matt and impale on prongs.  
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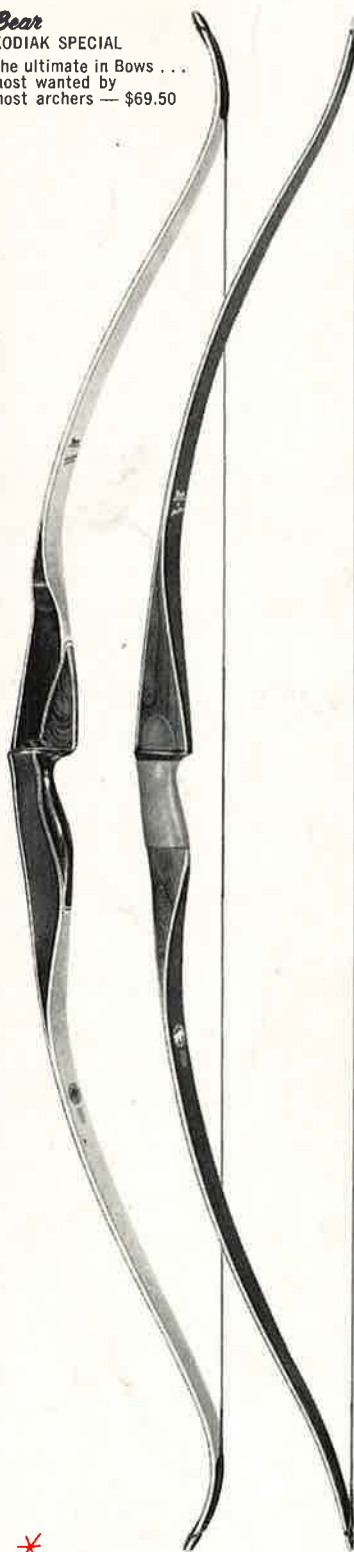


## Season's Greetings

To all of our friends in the world of archery, we at Ben Pearson extend sincere Season's Greetings. Because of you, we have enjoyed twenty one years of prosperous growth. We are grateful for the confidence and trust you have placed in our company and our product. It is our hope we may continue to serve you and that the coming year holds for each of you an abundance of Peace, Prosperity and Success in your endeavors.

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