

Special Report: **NEWEST BROWNING ARCHERY TACKLE**

BOW & ARROW

OCTOBER, 1973
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**MILAN ELOTT:
MOTIVATION
for WINNING**

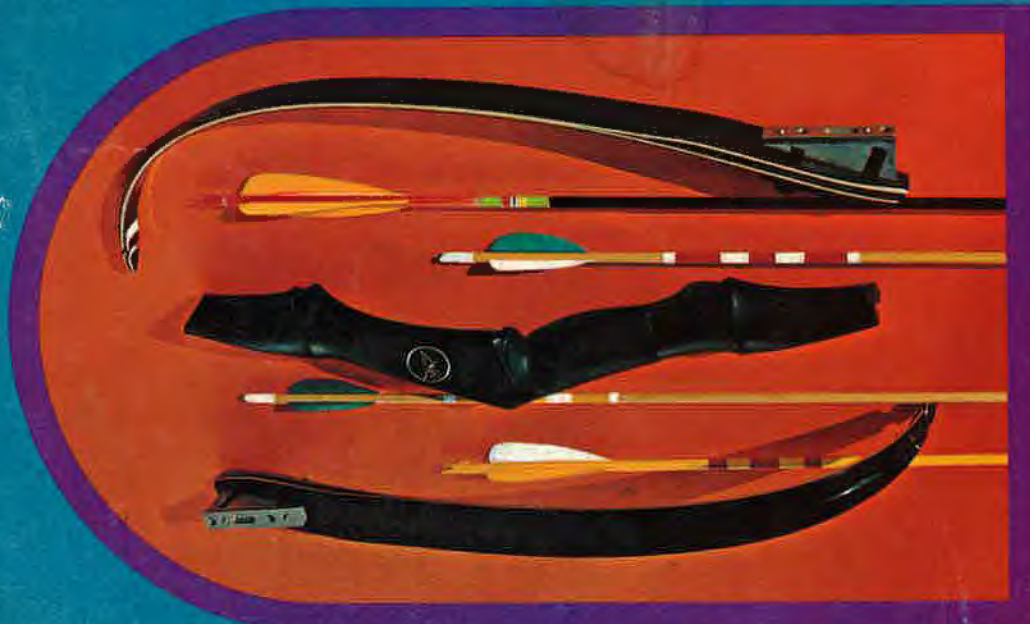
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BOW & ARROW

OCTOBER, 1973

VOL. XI, NO. 3



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ON THE COVER: One of the latest in a line of fine archery equipment from Wing Archery is the subject of this month's cover. The Slim Line Competition 11 take-down hunting bow is pictured strung and in the take-down status. Photo by Chuck Tyler.



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**MAIL
POUCH**

ANGRY READER

I am certain that this letter or any part of it will never get into print. I read with great dismay the article by Milan Elott on bowhunting in the June issue and by the time I had tearfully fought my way through it, with my heart sinking with each sentence, I could not believe what you had put into print for an unsuspecting and, in many cases, a beginning bowhunting public to read.

I have been acquainted with the writings of this man Elott for many years concerning target archery. My decade and more in that phase of archery told me that the trivia he writes concerning that aspect of shooting the bow was less than useless, but could do little real harm to bowhunting. However, the incompetent mental ravings he exuded in the above-mentioned article stand to do a great deal more damage. There are prospective bowhunters who believe much of what they read.

I have had a considerable amount of correspondence with Elott in the past when he came up with one of his typical statements which went: "I do not see why anyone would hunt with a seventy-pound bow when a forty-pound bow will shoot just as hard!" Now this new bit of "wisdom born of years of experience" crops up. Experience? Spending five years hunting in North America's finest big game area with nothing but a snowshoe rabbit to show for all his expert hunting efforts is experience that classifies a man as expert enough to write "Learn to Bowhunt" articles?

It is obvious that this character never shot at many living big game animals and I doubt that he EVER killed one outside a fenced game refuge. Wild animals simply do not stand around waiting to be shot, nor do they fail to react after the arrow is on its way towards them. The sickening old "sacrificing power for accuracy" just doesn't hold water in actual field conditions. The same applies to his statements concerning his wife shooting completely through a deer with her thirty-two-pound bow. This couldn't

Continued on page 10

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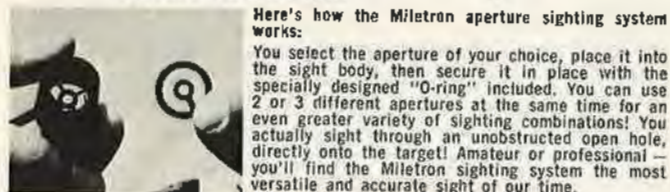
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HUNTING WITH DOUG KITTREDGE

THERE'S THIS TO say for hunting with hounds: It takes up your full attention, every last tiny scrap of the stuff — or, at least, it had darned well better or you've had it! Best you don't go a-mooning along, daydreaming about some new tackle you're thinking of acquiring, or some member of the delightfully opposite sex or similar cheerful distractions. Because, when those dedicated, full-time professional hound-dogs stumble across a smoking fresh set of tracks, all hell is out for noon and devil take you-know-whom. Either you stay with the pack or you might hear them for a little while as they fade off into the distance.

Talk about fun! You've never known hunting excitement until you've heard that first BOOOOOOOO-O-O-O when a bawl-mouthed ole' hound opens up as he gets his snoot full of hot bear or cougar scent. Your eyes pop open, your pulse quickens, your ears stiffen like radar screens. You can tell by every sound what is going on... how good the track is, what each dog is doing. Then another dog opens, and another. The pack is working out the track, figuring out the turns, the twists, where it went cold, where it doubled back, losing it a moment in their excitement, but soon straightening it out again.

Before you know it, the chase is on for real. Up the ridge you go, lugging your bow, trying to stay within hearing. You begin to gasp as the track freshens, and the hounds move out faster than your city-softened legs can carry you. You stop on the ridge to listen, but all sound has evaporated into the blue haze of the canyon bottoms, while the morning breeze is just faintly starting a rustle in the leaves. Across the next canyon you scramble and out the point aways... everyone stays motionless, straining every fiber for the tiniest wisp of sound floating up on the stiffening breeze.

All of a sudden you hear it — way off, no, no, faint... Yes, there it is again! A quick, chopping bark, hardly noticeable above the rustle of leaves, but unmistakably ole' Blue barking treed. Off the hill you tumble. Down the canyon. A moment to get your bearings and up a tight draw to the left. Branches swipe at your shirt unnoticed. A couple of guys are crashing up behind you, when there it is — the sound of Blue giving him hell just ahead, front paws far up the tree as he tells you, "Here he is. He's treed, he's treed."



Straining to catch the sounds of the other hounds at work on the trail are (from left) Ron Sherer, Ray Torrey.

The rest of the fellows are there, then. You gather around to admire the hounds... noting with pride how Red stays back with eyeballs glued to the critter in the tree, and bragging how well that new pup is coming along. And you admire your quarry high up in the branches of the tree for didn't he take them on a dandy chase? Remember how he almost got away when he got into those rocks and then slipped down that little chute? Look how he's just watching every movement below with those unblinking eyes. A decision is made. Do we have a trophy to bag, high in the tree, or do we let him go to run another day?

To the hound hunter, the chase is everything, pitting the skill of the pack against the elusive game... the actual kill an anticlimax to the fast moving thrill of the chase. Few forms of hunting offer such keyed-up excitement. Few forms demand such physical exertion on the part of the hunter. Seldom can any form of hunting weld together such close friendships as among those who follow the dogs. Here's one of man's oldest forms of hunting, with only the development of the breeds to mark the difference between the hunt of today and that of man twenty centuries ago.

To the bowhunter, who is frequently a younger, more active man than his contemporary gun hunter, chasing behind a pack of hounds can offer far more thrills than the relatively sedentary methods of bagging game, such as patiently waiting it out while sitting in a tree, or concealed while watching for the game to approach the bait of a dead horse for his evening meal. Even the patient, slow stalk on an unsuspecting elk can't match the wild excitement of a fast moving bear chase, nor, for that matter, match the deep disappointment that follows the day spent trying to locate the lost dogs, wearily trudging up one ridge after another listening, listening, listening... and knowing all the while that to find the dogs is to find the game. For putting the pack onto a hot track and watching them line out on it is no more an assurance of getting your quarry than is seeing a trophy buck standing high in the grass of a far-off meadow any assurance that you'll be bringing him home to Mama.

I recall a bear chase I made with master hound hunter, Ray Torrey, one spring when we had bears to the right of us, bears to the left of us, bears all around us... yet we never brought home a hide. We struck the track of a rare sunflower-colored bear of good size just below us. Out of the draw he came, just to one side of me in full view, with a hound nipping on his heels just a-pushing him along. Man, this one's really sacked up, I thought. But, oh! how wrong I was! For there were other bears in that canyon, a regular bear heaven, and it almost seemed, as we talked it over later, that each dog in the pack singled out a particular bear of his own to chase. We soon had bears and dogs going in every which direction, uphill, downhill, across canyons... you name it, and it was happening. We couldn't stay on any single track, so we broke up our party to try to stay within a particular area that was being worked. At one point, Nick Nickols and I were just above a tree way up a steep canyon where one of our hounds had run up the yellow bear. Frustrating, for only a hundred yards away from us we could plainly listen to the music of the baying hound, but we did not want to go in on one of Ray's hounds while he was off checking out a neighboring canyon. By the time Ray returned, our fears were realized, and the bear had left the tree with the chase going again out of hearing. So close, yet what are you to do? I'll tell you, there's a lot of physical wear before one gets his bear.

Then there are times when you are in the canyon where you know that huge cougar print has been seen, and the hounds open up on a piping hot track. You just know it's

Continued on page 77

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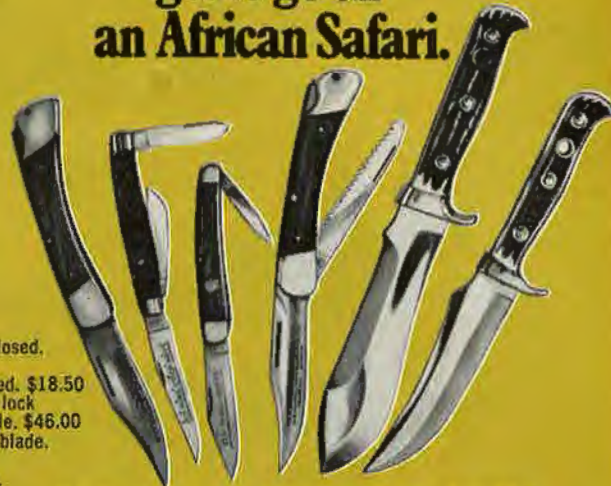


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LETTERS

Continued from page 6

happen under natural field conditions. I doubt that it happened at all.

Perhaps my twenty years of bow-hunting experience ranks me as only a beginner beside Elott, timewise, at least. My twenty-seven deer, sixty-inch bull moose, four-point bull elk, and nice three-year-old boar black bear may not rate me with the top bow-hunters in this country, but the hunting has brought me into hunting camps with those who are. They know what kind of tackle must be used to do a proper job of taking game. I am referring to men who have bowkilled more big game than Elott has ever seen in the field. Their opinions certainly do not correspond to those exerted by Elott. Any doubt as to who is right and who is wrong?

Roger Rothhaar,
Oceola, Ohio

ANOTHER OUTFIT?

Milan Elott is pressing for a better "shooter" organization and I have to agree with most of his recent articles, but I'd also like to point out that bow-hunters don't want their magazine cluttered with tournament scores, either.

I would have become a National Field Archery Association dropout, but one of our bowhunting clubs is affiliated with this organization. I shoot field rounds only for bowhunting practice.

Maybe we need another splinter national organization — for the bow-hunters. This new group could reinstate the 1500-point small game award program.

Vic Boyer,
Albuquerque, New Mexico

BEGINNER TALK

Most of the time, when a man walks into an archery shop, he anticipates buying a suitable hunting bow capable of taking deer and other small game. He is budget-minded to the point where he will be willing to purchase a bow of minimum standards and arrows, plus tackle of equal caliber.

Nine times out of ten, this person has been as close to the sport as a magazine such as yours. He knows nothing about shooting and thinks that a twenty-five-cent arrow will fly out of an eighty-pound bow as well as a fifteen-pound bow. Any archery dealer or sport shop owner can spot

Continued on page 79

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Glass Color: Brown



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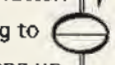
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TACKLE TIPS BY EMERY J. LOISELLE

TLC FOR YOUR ALUMINUM ARROWS

CLAMPING BLOCK — Occasionally it is necessary to hold the arrow in a vise while working on it. Normal vise jaws will flatten the shaft or make it egg shaped. So, the first thing you should do is make a clamping block which will safely hold the arrow in the vise without injury to the shaft.

From a 2x4 stud cut a piece of wood about two inches square by three inches long. Lay out a centerline on one end. Use a drill press, if possible, to keep the holes parallel with the edge. Drill three or four holes of different diameters to suit shaft sizes. The holes should be evenly spaced along the centerline. Holding the block vertically, cut it into two pieces along the centerline, so each half contains a little less than half of each of the holes. What happens to the missing portion of the holes? Sawdust! This saw cut through the holes is what gives clearance for clamping when the shaft is set into the appropriate pair of grooves and held in a vise. The drilling and sawing can be done with hand tools, providing care is taken to keep everything parallel.

The device can be used as two separate pieces, but for convenience and automatic alignment, hinge them together with leather or tape along one edge. Bookbinder's tape does a neat job. A commercial clamping block is available from Doug Kittredge's Bow Hut.

REMOVING POINTS AND NOCKS — Do you ever find it necessary to remove nocks or points from aluminum shafts? You can do this nicely without damaging either the shaft or the fitting. Clamp the arrow in your new clamping jig and, using a movable source of gentle heat such as a candle, heat the shaft close to the fitting, keeping the flame moving so as not to crystallize the shaft, at the same time pulling on the nock or point with pliers held in the other hand.

The candle works exceptionally well for removing or installing points. Do not grip the point with the pliers until the area has been heated, or the pliers will act as a heat sink to draw away heat before the cement has softened. An even better source of heat for nocks is a small soldering iron with which you touch the shaft near the fitting. Nocks do not require much heat to remove, and the soldering iron method will let you remove nocks without doing any damage. The removed nocks will then still be usable.



Heat from candle softens ferrule cement and lets you remove points from aluminum shaft.

Continued on page 14



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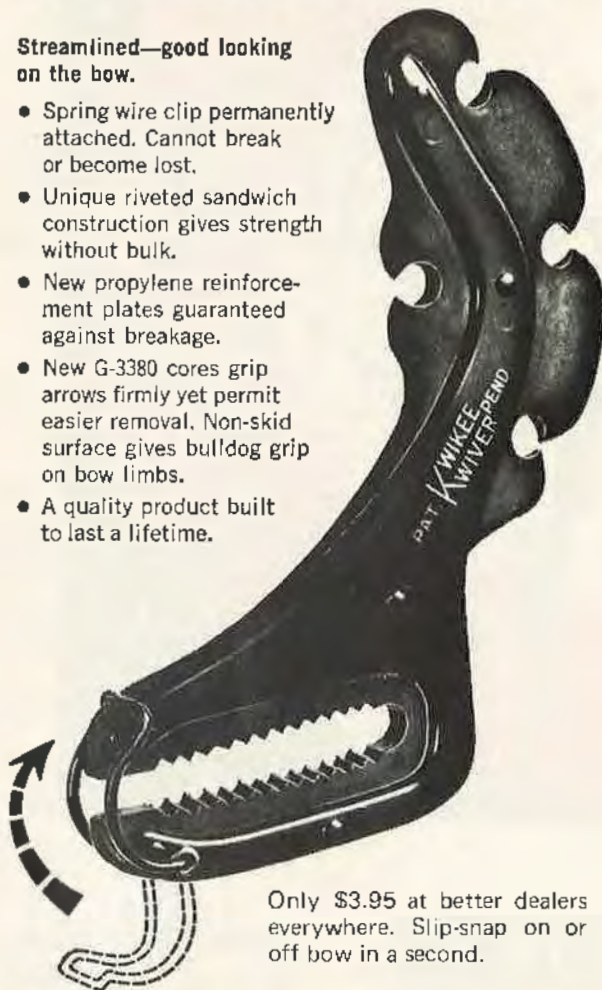
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TACKLE TIPS

Continued from page 12

CLEAN ARROW FOR CLEAN HANDS — For those of us who always seem to be elected arrow puller for the group, let's tell our friends about this tip. The oxidation on aluminum shafts can really blacken your hands when you are pulling arrows for four archers. Cleaning the shafts with steel wool, scouring pads, or alcohol helps for a little while. Clear lacquer makes the arrows hard to pull and drags out bits of straw burned into the finish by friction. A coat or two of furniture polish is a temporary remedy.

A simple combination method of cleaning and coating bare shafts is to impregnate a pad of steel wool with wax. Then sort of wrap the pad half way around the shaft, holding it in a three-way grip between your thumb, forefinger and palm. Apply the wax vigorously along the length of the shaft while holding and slightly rotating the arrow with the other hand.

You have heard of Naval Jelly for removing rust from iron and steel? Well, the Duro Plastics people also have a counterpart for non-ferrous metals called Aluminum Jelly. A spreading-on and washing-off treatment with this material will clean and brighten your aluminum shafts and help prevent further oxidation. It should be a must for tournament shooters. You can get it from retailers who sell Fix-it Products or from Duro Plastics, Woodhill Sales Chemical Corporation, Cleveland, Ohio 44128.

TIPS ON THINOFLETCH — For those who use Thinofletch, here are a couple of tips from Frank Folino, owner of TOFCO. Narrow strips of pressure sensitive tape come with the fletches to be wrapped around the shaft over the leading edges of the fletches. As a further safeguard to leading edges which take a lot of abuse, do this. Cut three half-inch lengths from the white strip before wrapping. Between the fletches, apply the little strips longitudinally to the shaft over-lapping the leading edges of the fletches, three-eighths inches on the shaft and one-eighth-inch on the fletch tabs, then wrap over this in the prescribed manner.

Although the little fletches are really tough, they can be creased quite badly when buried in the bale. When you find it necessary to pull an arrow through from behind the bale, twist the shaft slightly first one way then the other to feel which direction of rotation offers the least resistance. Rotate the shaft a couple of turns in that direction to wrap the fletches around the shaft, then pull it through while still rotating slightly. Stand the fletches up again by passing your thumb along the base.

POINT WEIGHTING — Many top archers these days are using weighted points which have a longer shoulder with a little more steel (20 grains) in the tip than the regulars. For the do-it-yourselfer, here's a simple method of weighting your present points.



Any plastic material that's designed to cure at room temperature is okay for point weight.



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TECH TALK

SEEKS NEW SPORT

Although we are a continent apart, I think you may have the answer to my two questions.

I am 56 years old and would like an outdoor sport. I think that would like archery. I am five feet, eight inches tall and weigh 185 pounds. What bow would you suggest for me?

Crossbows are legal here in North Carolina and I am wondering if you could suggest a good bet for me along this line?

I enjoy reading your magazine and am looking forward to hearing from you.

R. E. Darling,
Leland, North Carolina

(Your physical size will require a twenty-six or twenty-seven-inch draw

length. Bows are rated in pull or weight at a standard of twenty-eight inches and you should figure on a loss of about two inches for each inch under the standard which you pull the bow. We would not bowhunt for big game with less than a forty-five pound pull as developed at your draw length, thus requiring a fifty-pound bow. A sixty-inch length would provide the best stability and accuracy. By pulling the bow some each morning and evening as a sort of exercise, you should develop the ability to handle this weight within a few weeks and thus be able to buy a bow of this weight right off, instead of beginning with lighter bow and eventually building up to a heavier one.

(Crossbows handle like a rifle, except they have a reduced effective range of generally under a hundred yards. Benedict puts out a very fine hunting crossbow.)

MAKING OWN BOW

I am trying to learn everything I can about how to make my own bow. I have purchased How To Make Bows by T. Jennings and D. Kittredge, as well as reading all of the issues of the BOW & ARROW that have been published in the past four years. I know

where to get the materials, but I would like to have more specific details on bow construction.

Do you know where I can obtain an up-to-date book that would give me the details on how to make my own bow?

Enzo Mladovan,
Sydney, Australia

(We'd like to help you further, but you have about all the publications that explain modern bow building. We would suggest that you simply take the bull by the horns, buy the materials needed and start in. Good luck on your project!)

TAKE-DOWN QUESTION

I am shopping around for a take-down bow for backpacking. I plan to use the bow to hunt bear, moose, deer, small game and for bowfishing. My problem is what weight bow I should get. I like to shoot a lighter bow, around fifty-pounds, because I have better control. However, I am doubtful of the ability of this weight bow to handle big game. I can't afford the expense of two bows.

Another matter that I have been wondering about is a choice of arrow
Continued on page 78



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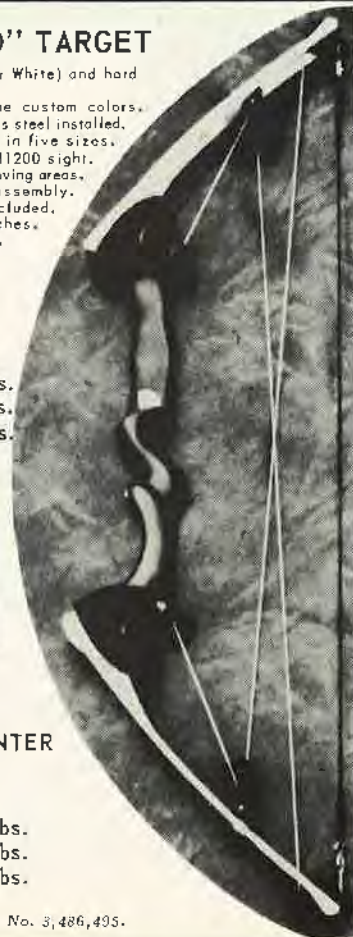
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Above: Bob Markworth prepares to take aim at a balloon in the hand of his fiancée, Diana Lawrence. Crossbow used in the act rests on holder at right. Below: Bob's feats take on considerably more challenge as Diana adds Lone Ranger mask — sans eye-slits!



A Focal Point For Controversy Among Archers, This Showman's Techniques May Be Of Interest For Reviewing!

(The editors of BOW & ARROW had some reservations concerning publishing this article, because the archer portrayed utilizes human assistants in performing his accuracy skills. This reservation was felt by the entire American archery industry for, as they claim, "just one slip could set archery back fifty years.")

(However, as Bob Markworth has performed before crowned heads of state and on American television numerous times over the years — displaying his act to more people throughout the world than this magazine reaches — and, recognizing the intellect and common sense of archers today, we consented to print it.)

(We caution, however, that we do not endorse this practice for the casual or professional archer. Take the story as it is intended: entertainment.)

SHOW BIZ SHARPSHOOTER

By Bob Suhosky

BOB MARKWORTH IS a Twentieth Century Robin Hood who displayed his incredible prowess with a bow and arrow to a national television audience recently in an episode of Chuck Connors' "Thrillseekers" series. Markworth's speciality is shooting balloons — held by a female assistant.

In an unbelievable finale, the 36-year-old Markworth first covers his eyes with a blindfold, then, to prevent any light source from distracting him, covers his entire head with a black cloth hood. Guided only by the sound of his pretty partner's voice, he shoots a steel-tipped arrow at a balloon only inches above her head.

He has yet to miss hitting the balloon which he has no possible way of seeing. In fact, after sixteen years of accident-free precision shooting, he hasn't even a single "near miss" against his perfect record, which is exceedingly comforting to 25-year-old Diana Lawrence, a Hawaiian-born professional Polynesian dancer when she is not holding a balloon over a bullseye.

In the three years that she has been performing as Markworth's partner, Diana Lawrence estimates that he has shot more than 20,000 arrows her way. It would be incorrect to state that Markworth shoots at a human target, in a strict technical sense. Ms. Lawrence certainly is in the vicinity of the spot where he aims his arrows, but balloons are the actual targets. Fortunately, the fact that his audiences are almost always comprised of people who have no affiliation with archery whatsoever practically erases this technicality from their minds. To them, he is shooting at her.

"Actually, it's impossible for me to even think there is a girl there," Markworth relates. "I must make myself oblivious to the fact that there is a human being present. I must concentrate purely on the object I am shooting at."

Markworth's concentration during the course of the act he has taken around the world is absolute. During the years he has been performing he has developed a sense of tunnel

vision: the ability to see only what he is shooting at and nothing else — particularly the girl.

"If I ever thought there was a possibility of an arrow hitting her, I would be through," he says, "so I concentrate on the target and the target alone. I truly believe that concentration is ninety percent of shooting. The physical aspect accounts for only ten percent."

Before he goes into his act, Markworth inspects his equipment, including the balloons which Diana Lawrence holds in her hands and mouth.

"There is, to me, a psychological advantage in the type of balloon I use," he explains. "This particular balloon is elongated. The largest width of the balloon is at the end, away from the girl." This, he feels, gives him a slight but significant extra cushion of safety away from his partner.

"I also measure every balloon before I shoot at them because, under certain given conditions, optical illusions will arise whereby if the lighting isn't up to par in some of the nightclubs or theatres where we appear, I may believe that the balloon is smaller or at least appears smaller to me. Something like that would tend to create a little pressure. Therefore, by measuring each balloon before I go on stage, I know that whether it looks the same size or not, it is the same size," Markworth says.

While it is a bit time-consuming, he blows up all his own balloons. This way he knows for certain that they are all the right length.

Balloons ready, he next strings his bow and flexes it several times, limbering up both the equipment and his muscles. He checks his arrows also, making sure each one is true.

Markworth uses a thirty-six-pound Bear laminated bow in his act. "It's four laminations of fiberglass and wood, probably the finest bow made," he notes. He aims in from thirty feet.

"The arrows I use are hollow aluminum tubing with a sharp steel point. They are very light and machine perfect,"



Above, left: Markworth and Mayana — his partner in 1955 — pose with a singing group called The Platters, with whom they appeared in that era. Above, right: Diana Lawrence is featured as an exotic Polynesian dancer as well as appearing with Markworth in their act. Pair works at Seven Seas restaurant in Hollywood, when not touring elsewhere. Left: Bob and Diana relax for a moment to smile at the camera. Lower, left: Markworth adjusts bowsight.



he adds. They had better be. When he lets one fly in Diana Lawrence's direction, it leaves the bow at better than 180 miles an hour.

Markworth succumbed to the glitter of show business in 1954 when he was 17. That was three years after winning his first archery title, California state junior field archery champion, in 1951. In the next two years, he went on to capture numerous other titles in the Golden State, including junior field and target championships in 1952 and 1953.

Shooting out of his classification while still a junior, he won the Southern California men's AAA class quadruple American target championship the same year.

By trial and error, the young performer, who relinquished his amateur status for the spotlight, created a variety type shooting act. "It didn't take me long to learn that a



display of skill and marksmanship were not enough to satisfy an audience's appetite," Bob Markworth recalls. "Before my first year was up, I knew that something more was needed if I was going to succeed as a performer." The "something more" turned out to be a leggy brunette named Mayana.

While audience response soared, the wrath of the top echelon of the archery industry came thundering down on him. The idea using a human target plus the blindfolded finale was definitely against their collective grain.

Strongest opposition came from a West Coast dealer who told him: "Just one miss, Bob, a flinch on your release, a broken nock, a broken bowstring, any one of innumerable unforeseen possibilities on stage in front of a large audience and you will have set archery back fifty years."

Markworth did not consider the requests unreasonable and from persons whose counsel he respected. He was, however, a determined young man and the cries to desist went

unheeded. As a thoughtful acquiescence, though, he imposed extremely rigid standards of caution and safety on himself.

Nowadays Markworth employs a crossbow in his act, in addition to the recurved Bear bow. "I find that the crossbow is a lot easier to shoot and a lot more accurate," he espouses, "and quite naturally, since that was its inventor's intention. A crossbow is just a primitive version of a rifle. You have added stability, the extra stability of the bolt or quill going down a ramp.

"The bolt can travel at more varying speeds out of a crossbow, depending on its strength. The one I use is rather light and the shaft travels at a much slower speed than the arrows out of my recurved bow: about 120 miles an hour," he says.

To take the edge off the fact that a crossbow is more accurate than a recurved bow, Markworth aims in on moving targets. "Shooting at a balloon rising on wispy air currents makes it interesting for me," he explains. "I never know just in which direction the wind is going to turn the balloon, whether it is going left or right, up or down." It doesn't really seem to matter. He breaks them every which way.

Markworth also draws a bead on small white discs which Ms. Lawrence throws aloft. "The white discs I shoot at are considerably smaller than the balloons, but not particularly more difficult to hit," he says. He offered the theory that when the target gets smaller, the concentration becomes more acute. It is a reflex action on the part of the mind.

When Markworth strings his crossbow, it's a signal for Diana Lawrence to put on a most unusual crown. Instead of being topped by precious jewels, it holds three balloons.

"The balloons on the crown present a bit of a problem because they tend to overlap," Markworth interjects. "In order to single them out, I tell Diana to move her head a certain way, or to tilt her head this way or that. That way, I put a single balloon in a position where I can see that it is not being overlapped by another balloon."

Top, left: Markworth eyeballs one of the aluminum shafts for straightness. Showman puts great stress on precision. Left: Preparing for filming of outdoor practice session, Markworth strings his 36-pound Bear laminated target bow. Below: As the cine camera whirs, Diana moves her head in response to signals so that balloons can be broken singly.



After one balloon has been popped, Markworth instructs his partner to move her head ever so slightly so he can get a clear shot at the next. Such positioning is, of course, unnecessary with the third balloon.

Bob Markworth began shooting the bow because he had become extremely proficient with the rifle his father had given him when he was 11. Under his father's supervision, he became an excellent hunter with the gun and the weapon soon lost its appeal for him. When he turned to archery, he again achieved a very high degree of proficiency



Above: Billed as the "20th Century Robin Hood," archer Bob Markworth addresses a night club audience during an appearance at the Monte Carlo Club in Tokyo, years ago.

Below: Before a live audience on Australian TV, Markworth punctures balloons inches above Mayana's head, blindfolded.



in a short time. That's when he began winning archery contests. Since then, Bob Markworth and his partners have thrilled audiences in sixty-six foreign countries with the hair-raising exhibition of archery accuracy.

His first overseas engagement was an eight-week contract in Tokyo, which was quickly extended to six months. Before he knew it, Markworth had racked up three years in Japan and the Far East, busting balloons in such exotic spots as Hong Kong, Taipei, Manila, Bangkok, Singapore and Saigon. He joined with the Harlem Globetrotters for a

tour of London and thirteen European countries. When the Globetrotters returned home, Markworth wore out a path between London and virtually every capital on the continent, all the way to Calcutta.

It was eight years before he returned home. By then, the voices of the skeptics had been silenced.

But eyebrows still go up every time Bob Markworth dons his blindfold and black hood and brings an audience to the edges of its chairs with his undeniably spectacular finale.

"This is difficult," he admits. "I can't see and must rely entirely on the sound of the girl's voice. She positions me whereby I am facing in the opposite direction, away from the target. I turn toward the sound of her counting, from one to ten slowly. This is my only sense of direction. I zero-in on the sound of her voice."

As difficult as it sounds, Markworth has perfected the ability to lock in on the sound of someone's voice while blindfolded. But it took countless hours of practice.

"Initially, I practiced in a dark room, pointing to a voice from another person standing at the opposite end of the room. When the light would come on, I would find that I would be within a foot of the sound. After several months, I found that I was able to point my finger directly at the person's mouth," he explains.

Inasmuch as Markworth has been an archer for years, it is second nature for him to be able to aim an arrow just as he had learned to point a finger.

"I am facing away from Diana. The first thing I hear is 'one,' directly behind my head. But I can't whip around. I have to turn slowly and orient myself. As she reaches two,

I've started to swing toward a more forward position facing her. Now I start to zero-in. By the time she reaches four I am actually aiming at the balloon," he says.

To check himself at this point, Markworth will pull a bit to the left at "five" and come back on target at "six."

"I am zeroed-in by the count of eight. The nine and ten are just extra assurances for me," Markworth notes. "Even though I am able to shoot quickly, when hunting for example, I want to take that extra time to be sure when I am shooting during the act."

"I don't want to leave anything to chance and it is my technique to hold a long time. I just feel more sure of what I am about to do," he says.

What does Diana Lawrence say? "When we do the blindfold shot, I watch him to make sure he is turning the right way and facing me — which he always does — but there is so much anxiety and so much anticipation waiting for this one part of the act," Ms. Lawrence says.

"At nine," she continues, "Bob has completely zeroed-in on my voice. I reach behind me to make sure the balloon is situated directly at the back of my head and as I say ten, I drop down to right below the balloon to a point where it is right above my head."

"As I am waiting for the release of the arrow, I am terribly nervous, hoping that he zeroed-in right. As the arrow hits, it's always a feeling of relief."

Although she does have many anxieties, Diana Lawrence is confident in Markworth's ability as a marksman. "I never once thought there was a possibility he would hit me nor has he ever once come close to hitting me with an arrow," she says. "A lot of people come up to me after the act and tell me how brave they think I am and so forth, but I think there are a lot of daring people in the world."

Bob Markworth and Bob Swinehart have never met, although Markworth is aware of who the other gentleman is. "I know about Swinehart getting the big five in Africa with bow and arrow," Markworth says. "But I don't really see us as competitors."

Swinehart's big five include leopard, lion, Cape buffalo, rhino and elephant. "We're both dedicated archers and hunters," Markworth states, "and I think his big five accomplishment was commendable. It may be possible to duplicate that feat but it is becoming increasingly difficult. Certain countries in Africa have forbidden archery hunting by legislation and even limited the caliber of gun which hunters can use."

Markworth plans to hunt in Africa in 1974, but feels that bow and arrow hunting will not be permitted many years after that.

At the moment, his plans are concerned with organizing a pair of archery hunts in North America. A trip to British Columbia will be in quest of the grizzly bear, while a sojourn to Baja California will seek to bag mountain lion.

Markworth's hunting bow is a sixty-five-pound Bear, with which he's taken crocodile in the Philippines, among other game.

Asked if he can hit a dime in the air with an arrow, Markworth replies, "Yes, but not every time or even with regularity," which is Swinehart's answer to the same question. Perhaps one day in the future, this talented pair of Bobs will meet at the range for a bow and arrow shootout — with dimes. ←

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How To Turn Out Arrow Rests And String Servers

By C. R. Learn

FRUGAL PEOPLE NEVER throw anything away, and sooner or later, if inspiration and luck are met, you find a use for some of the trivia that threatens to crowd you out of the house. Take used toothbrushes: They have as much use as your imagination can put them too. How can an archer use one?

Many ways. Two uses that come to mind are for arrow rests and string servers. Both are easy to make, require few tools and little time.

Select a brush that has a straight section of bristle for the brush area, and cut the handle at the back of the bristle. You can then select the main section, cut a section from the entire unit or use all of it for an arrow rest. Some archers feel the brush slows the flight of the arrow, but it would be minimal and the brush will last for many months of constant shooting.

The entire bristle presents a massive area for an arrow rest, and you will probably prefer to cut perhaps half of the bristle for the arrow rest. A simple shop hacksaw with a fine-toothed blade will do this easily. Cut the section you desire, file the edges and the back to remove the rounded shape of the brush and all that remains is to cement it to the shelf of the bow. There are two ways of doing this.

The first and simplest method is to sand the back of the brush area to get a rough gluing surface, place contact cement on the base of the rest and the shelf of the bow, allow proper setting time and place the bristle in position and start shooting. This works well for bows with a flat shelf area. If the bristle area is too high you can cut or burn it lower.

Some bows have a curved sight window, hence there is no flat area on which to glue the rest. Here you can use the side of the bristle as a shooting rest gluing the base of the brush to the side of the sight window at the location you desire.



Materials needed for project include toothbrush, contact cement, bobbin, thread, nut and bolt, and small oven or other heat source. Total expenditure can be less than \$5.

The pocket string server takes a bit more time and requires a few more items to complete.

You will utilize the plastic or nylon handle of the brush left from cutting the head off. To this you will add a machine bolt of brass or other metal about three quarters of an inch long, with a nut for the opposite end. You will also need a bobbin, the same type used on a sewing machine, which can be purchased separately or in groups of four, if your wife won't part with one, and some serving thread.

Determine the center of the nylon handle of the brush by measuring. Mark it and place the handle into a heating device. The small electric ovens used for making onesided toast or snacks makes an excellent shop heating unit for softening plastics. You might have one around the kitchen or you can buy one for around five dollars at a swap meet. We used a half-inch bolt for the form to curl the nylon over. You need some item that won't burn, such as a bolt or round stock of metal, to curl the heated nylon around for fitting the bobbin into later.

Place the nylon handle on the bolt area. Place both in the small electric oven and observe the nylon till it starts to curl. This material doesn't flow over the bar; it will curl up

When nylon begins to heat up, it curls upwards and necessitates being forced downward with a pair of pliers. The desired shape is like that (below).



Toothbrush is trimmed to size of rest desired (top), then surface roughened and contact cement applied. Squared-off remainder of handle (below) is then set atop metal rod or large bolt placed in the oven.

at the ends, instead. When it starts to curl, it is warm enough to form. Withdraw the unit from the oven and, using a glove or pair of pliers, bend the nylon around the hot metal bar and hold until it takes a set. If you like, you could introduce the bobbin at the back of the doubled ends to assure you don't get them bent so much they won't allow the bobbin in when it cools. One advantage to this material — if it doesn't work the first time, reheat and reform until it does. Don't get it too hot, or it will blister.

After the double handle has cooled to the touch, you can insert the bobbin at the back and locate the position you want it to maintain. Mark the center of the handle and drill a hole large enough to accept the brass bolt. Using a

When cool, the bobbin is inserted in server. Two holes need be drilled on each side of bobbin for bolt, and another at bottom through which serving will pass.





hand drill, drill a hole on each side of the doubled unit for the bolt to pass through. After you have the holes drilled and cleaned out with a rat tail file, place the bobbin in position, run the bolt through and put the nut on the other side. By adjusting the pressure of the nut on the nylon you will be able to adjust the tension on the string server.

Remove the bobbin and fill it with regular nylon serving thread or a thread of your choice. I have used sixteen-gauge nylon and dacron thread. It is finer than the material sold in the archery stores and it makes a fine tight serving, although it takes more wraps to get the job done.

Drill a hole in the dead center of the curved section of the nylon to allow the thread to pass through. You want it big enough to pass the biggest thread you will use without fighting. Replace the bobbin in the doubled ends, thread the serving through the newly drilled hole, place the bolt and nut in place, and you will be ready to serve a string anywhere you need it. The unit is small, compact and functional.

You may want to go a bit farther and add a groove along the edge of the front for the bowstring. This will aid in



After the cement has thoroughly dried, a few arrows should be shot to check rest height, (above). If too high for your liking, simply trim the bristles down.

This is how finished products appear in shop (left). Rests can be applied two ways, either from bottom or side. Server string tension is applied by turning bolt.

serving, as the groove will follow the string easier than a curved surface will. Use a rat tail file for this groove and cut it about a fourth of the thickness of the nylon stock. You can cut it lengthwise or across; it makes no difference.

When you have finished with this quippy project, you will have a serviceable arrow rest that is impervious to snow, sleet, rain or hot weather. About all it can do is fall off. Many archers feel the bristle rest will wear the feathers down faster. It will. But if you tune your bow properly, there is no more wear than with any other type of rest. You can actually get two rests from a standard toothbrush by cutting it in half the length of the unit.

Your handy dandy pocket string server will fit into your tackle box, your hunting jacket or your pants pocket. You can repair a damaged serving or remake an entire serving in a few minutes time. By adjusting the tension on the bolt-nut assembly you can make a tight serving or a moderately tight one, depending on your choice.

Cut up, heat up, shoot up and serve your former toothbrush in a matter of a few minutes shop time. ←



The horizontal rest (left) shows few signs of hard use. Heat tends to make the cement loosen, so keep it in mind.



The custom-made server handles either repair or initial serving chores, as seen at right. It's easy to use, too.

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WHAT YOU SEE . . .



Ernest Wilkinson studies large tree for best climbing possibilities and potential spot to install portable tree stand which he carries strapped onto his back.

IS WHAT YOU GET!

By Roy Hoff



Making a shot from a tree stand requires patience, agility and balance; but to be on the safe side, author encourages wearing some sort of safety belt.

I AM WRITING THIS in an effort to be helpful to the countless bowhunters who travel each year a couple of thousand miles more or less to bag a deer, perhaps with braggin' size, rocking chair antlers, only to return home and explain to the ever lovin' how come he got skunked. I was a member of this nation-wide group of buck-missers until about ten years ago, when I came to the conclusion there was just no way I could meet a trophy buck on his own terms and in his wild habitat and come out a winner.

Know what I did? I joined the clan who hunt from tree stands. This select group all are of the opinion that using a bow and arrow really is hunting the hard way. After ten years of figuring all the angles, bagging a trophy buck deer still is no cinch. But when I learned to hunt from a tree stand, Lady Luck started looking my way and with a pleasant smile.

I built my first tree stand on the Wilcox Ranch in 1960. The site was in a big cottonwood overlooking a forty-acre alfalfa field. No stand could have been more comfortable, and as safe as the roof of the nearby ranch house, but for efficiency, and putting me on an even footing with the big Utah bucks, it was a total loss. I'll tell you why.

I selected a tree with a beautiful view of the field. I found soon this could be placed last on a list of necessary conditions. This blind was immediately abandoned except for morning hunting. The field was in a canyon. Deer, bedded on the canyon walls, could see everything that was going on in the stand and, of course, bypassed the spot at a considerable distance.

Lesson number one: select the site for your tree stand so that the game can not look down through the branches. All the area round the stand should be well below eye level of the hunter and well above that of the deer. Unless you make noise, the chances are a deer will not look up into your tree. But if he approaches your tree from any direction which places you eye level, you might as well return to camp.

I strongly believe that of the deer's senses, sight is his best alarm signal. If you can see a certain movement at a hundred yards, I'd venture to say a deer can see the same movement at five hundred yards. I am mindful of a lesson in the Boy Scout manual: If a person becomes lost in a forest and hears a plane, he should vigorously shake a young aspen or the limb of a tree. Rescuers can spot the movement.

On opening morning of the hunting season, as



Larry Barnford waits comfortably in permanent, easy-to-build tree stand which takes advantage of natural three-corner growth of Aspen trees.

What you see is what you get, is the claim of many tree stand bowhunters. Shown is Ernest Wilkinson, bowhunter and taxidermist of Monte Vista, Colorado, who depicts a scene which likely will be seen by many bowhunters during deer season this fall. Animal is a full mount of a western mule deer by Wilkinson.

I make my way to a previously prepared stand, I probably resemble a junk collector. I carry a gunny sack over my shoulder in which are: pillow, down jacket, mittens, large-size plastic bags, binoculars, raincoat, apple and some Tootsie Rolls. The latter item may be kids' stuff, but you'd be surprised how good they taste when you're real hungry, even those which were left over from last year. Another item which is always good for a laugh is my piece of carpet for the floor of my stand, to deaden the sound if I shuffle my feet when a deer is nearby.

When night closes in, I put everything back in the bag and tie it down for the night. Yes, even my bow. I, of course, cover the fletching of my arrows with a plastic bag as a protection from morning dew or rain. My hunting partners look at me with tongue-in-cheek like I was cracking up. I explain to them when I am returning from my blind at night or going to it in the morning, it's too dark for any possible shot. When making this same journey in daylight, if I were to see a deer I would pass up the shot. I can't with any confidence guess the distance of a shot, and foregoing the shot would preclude any possibility of a bad hit.

If a bowman hunts from a tree stand, he will find there is a lot more to the sport than flinging arrows. He will have an opportunity to see wildlife and observe much in their kingdom he never previously realized existed.

Often I have had a bird alight on a limb a few feet from my nose. Keeping absolutely still, not even blinking my eyes, I have watched the antics of these winged creatures. It has often been humorous as a feathered species cocks its head and curiously examines the funny-looking nearby object which was not there the last time this roosting place was visited.

Every hunter knows creatures of our wildlife kingdom have ways and means of communication. One afternoon, while sitting in my tree stand on the Wilcox Ranch in Utah, I had a fascinating experience of observing a deer family tableau of communicating evidence of danger followed by a signal that all was clear.

I had climbed into my tree stand shortly before four in the afternoon. I knew from past experience that the chance of seeing a deer before sundown was extremely remote. But I also had learned that it is a good idea to arrive at your stand early, get settled down and give any deer who has spotted you a chance to convince himself you mean no harm.

To help resist the temptation of looking around or glassing the area to see if a herd of bucks is approaching, I take along a favorite sporting magazine and catch up on my reading. After reading two or three pages, I glanced ahead while turning the page. To use an old hunter's cliché, there, on the far side of the alfalfa field, a herd of deer had appeared as if by magic. There were four bucks and five does, all with their noses in the feedbag. It was a sight to quicken the pulse of any bowhunter. It would have taken a patient and expert stalker to climb down out of the tree, make a huge circle and approach the herd from the wooded side of the field. It was a cinch I didn't have the qualifications. I continued to watch the feeding animals with considerable excitement and fascination.

Suddenly the scene was changed. All heads became erect with eyes focused toward the sound of a Jeep engine starting. Later I learned the card game had broken up and for something to do to kill time, Waldo Wilcox loaded the hunters into a Jeep pickup and headed

for Cherry Meadows, a distance of about ten miles up Range Creek Canyon.

The deer held their position until they saw movement of the vehicle coming toward them. They quickly dashed across the ranch road, up a draw for a short distance, then topped out on a small hogback where they could get a commanding view of approaching danger.

The four bucks immediately laid down. The does sort of messed around, nuzzling the ground and making like they were doing the chores. Several minutes after the sound of the truck was lost in the distance, all the does started making their way back to the field. The bucks, mind you, continued with their siesta. To me, I imagined one buck, probably the boss of the outfit, issued a command something like: "Okay, gals, let's get with it! Take a run down to the field and see what gives with those hunters who just passed by!"



Author finds the only safe and easy way to climb a tree, without defacing it, is to use a rope ladder. A few words of caution: Be sure to tie bottom rung snugly to the trunk or low-growing shrub or root. It takes fifty feet of half-inch rope to make a twelve-foot ladder with a lead rope to pass over a stout limb.



Dan Quillian, of Athens, Georgia, uses a portable tree stand of his own manufacture. Easy to install.

The does, upon reaching the road, looked first up, then down the canyon. Perhaps two minutes later all five of them walked nonchalantly into the alfalfa and started grazing. They paid no more attention to the road or vehicle.

Suddenly, as if the boss buck had wirelessly to see if the coast were clear, all the does, as if at a command, turned toward the mountainside and walked slowly single file to the top of the hogback and joined the apparently dozing bucks. Whatever means of communication was used it didn't take long. The does turned around and started down the hill. The bucks then got up and joined the procession. When the herd, led all the way by the does, reached the road they did not hesitate to look up and down it for possible danger. They crossed without hesitation, walked a few feet into the meadow and immediately resumed feeding.

As a sort of epilog to this episode, two of the hunters, upon their return to the meadow, spotted the deer and made a successful stalk. Hank Krohn bagged a buck and Milt Lewis a doe. Doug Easton got some shooting, but no hits.

I highly recommend hunting from a tree stand. Before I go into details of construction, I want to emphasize two conditions: right at the top, as most important, I want to stress the safety angle. Most anyone could sit on a stool and watch the birds indefinitely. But seeing a deer and with quickened pulse take a shot at your quarry, you could easily step too far or lose your balance and fall to the ground seriously injuring yourself, even fatally. So, be a sissy like me and wear a safety belt of some kind. I merely tie a length of nylon rope around my waist, with the other end wrapped around and tied to the tree. If you ever have need for this device, I'm sure it won't be very comfortable, but most assuredly will save your life.

If climbing a ten-foot ladder gives you cold shivers, then hunting from a tree stand is not for you.

Next would be the comfort part of tree stand building. My wife, Frieda, has often called me an ol' wiggle-butt, because I never was able to sit still in a cramped and uncomfortable position.

Construct your stand so you can occasionally stand up and shake the kinks out of your lower extremities. I don't mean like a jack-in-the-box, so your movements might be noticed by a big buck bedded on a nearby hillside. Even with the luxury of a pillow I find a brief respite from sitting, about every half-hour, is a real pleasure.

There are a number of portable stands which have been advertised in Bow and Arrow magazine. I personally like Ron's Porta-Pak. It comes with shoulder straps, so you can back-pack it into the woods. Best of all, for me, it comes equipped with a canvas top seat. Remember, there will be times when you will have to spend hours in a confined area, and the less you move around, changing positions, the better off and more successful you'll be.

If you are going to hunt within a day's drive of your home, I'd suggest you go on a scouting expedition a week or two before opening day of season. Look for tracks and other signs of the species of game you're going to hunt. For brevity of this article let's presume you are going deer hunting. Search for a spring or other watering place where tracks indicate the game has been visiting frequently.

Now we need a tree—one we can climb into and out of with safety. The tree should be within four to ten steps from a waterhole, or used deer trail. This so that when the deer puts in an appearance, you can be on the alert and not move an eyelash until your game is almost directly beneath you. This is what makes tree stand hunting so popular. A deer cannot see you draw your bow and loose the arrow.

A word of advice: practice shooting nearly straight



Some lucky bowhunters stumble across the perfect tree for a stand, such as this one, which didn't require the cutting of a single limb.

down. You will find it a lot more difficult than you think—even using a sight. Talk your club members into setting up one tree stand target. Use it for a novelty event if nothing else. Upon arriving at my tree stand, I never fail to shoot a few practice arrows, picking certain spots where I believe a deer might appear. I have found that a twenty-yard setting will suffice for anything around the tree, even for an actual distance much farther.

Let's say we found a pine tree which was just what we were looking for. It was forty or fifty feet high and eighteen inches in diameter. The first limb was ten feet off the ground. Being in a national forest, we would not be permitted to nail climbing blocks to the tree or build a stand of a permanent nature. We would install a portable stand and use a rope ladder to climb up to it.

To be sure, there are many ways to climb a tree, and many different kinds of trees, each presenting a particular problem in climbing. One time I was privileged to hunt on the Walking Cane Ranch in Texas. The land was covered with millions of scrub cedars. All the equipment a hunter needed in this area was: hammer, saw, two or three nails and a one-by-six two feet long. No devices were needed to climb these cedars. There were lots of limbs from top to bottom. After reaching the top, the hunter would saw off a couple of feet from the main trunk, then nail on the board for his seat. An added pillow was for luxury.

In all of our western states, forests are composed of pine, fir, hemlock, aspen, cottonwood and many other species. Personally, after I have located a good spot for a stand, I search for a tree with a natural opening in the foliage about the right height for a stand. This precludes the necessity of pruning many branches in order to see out and get an arrow through. Often a hunter will find where lightning has struck a tree and gouged out an opening ideal for locating a stand.

Photographs accompanying this article will give you a good idea of how to set up housekeeping in some tree and make like an owl. It was my dream to present a photo of me drawing a bow and aiming at a live deer. Sort of having my cake and eating it, too. But I found this chore more difficult than I thought. Deer are narrow minded and uncooperative.

One photo depicts what looks like the real thing. Here is how the shot was accomplished. About ten years ago, I was hunting in Rock Creek Park, near Monte Vista, Colorado. My hunting partner was Ernest Wilkinson, local taxidermist and founder of the Piedra Bowhunters Club. In his display room I feasted my eyes on a life-like full mount of a four-by-four mule buck deer.

Last summer en route to Colorado for a bear hunt, I dragged this picture out of my memory file and stopped by Ernie's place to sort of say hi. It took a little arm twisting, but within the hour we had loaded the mount into a van, driven to a spot in Rock Creek Park, where we had long ago hunted deer together, and set up a realistic shot of Ernie sitting on a tree stand with bow drawn and aiming at the one-for-twenty spot on a trophy buck.

Don't build your stand in the top of the highest tree. When the wind blows you'll wish you hadn't, and you might get seasick! I'd say the minimum height should be ten feet, with a maximum of thirty. Remember, the higher you climb, the more difficult it is to get in and out of your stand and hoist your gear to

and from. For the latter chore I use a hundred-foot length of quarter-inch nylon cord.

I recommend you be in your stand about half an hour before daylight. This will give time for any body odor lingering below to dissipate. Also any deer who have been alerted by the noise you made getting to your stand will have settled down and figured that whatever caused the disturbance had disappeared.

Hunting from a tree stand can be really exciting at times. You may spot your deer at a considerable distance and then observe it slowly making its way toward your stand. I guarantee it will raise your blood pressure and increase your heart beat! Have an area picked where you are fairly sure of getting a good hit, then wait until the deer reaches that spot. It will be a bit rough, but wait him out.



There is much to enjoy from a tree stand. Often I have had a bird alight on a limb a few feet from my nose.

The greatest hunting thrill of my life was waiting for a record-class buck slowly make his way to a spring near my stand. He only had to cover two hundred yards, but the way he picked his path, hesitating at every step, it must have taken him two hundred minutes to reach the spot where I planned to loose the arrow. I forced myself to turn my eyes in another direction from time to time so I could not see him and to better hold back the buck fever which was creeping in. Even though my bowman was a bit on the shakey side, the arrow flew true to the spot, and I had the further thrill of seeing the big beauty go down for the count.

This experience took place on the Lamicq ranch in the high country back of Grand Junction, Colorado. John, as an outfitter, is a firm believer in hunting from a tree stand. Annual kill success of his clients tends to prove this is the only way to go. Much of the Lamicq property, owned or leased, covers the tops of several huge ridges. Needless to say, if a hunter is thinking of bagging a trophy buck he'd better go topside.

Ecologists complain that tree stands are ugly and spoil the natural wilderness of a forest. I will admit some I have seen are an eyesore, but I have been assigned to a tree in a certain small area and have had difficulty finding the tree with the stand in it. The hunter does not have to chop off limbs with reckless abandon, even if there were no objection. If you leave chopped-off limbs scattered around the foot of your tree stand, forget it! Deer know when things are not as they were yesterday and sense danger.

A word of caution: check your game laws. There are a couple of states which prohibit hunting from a tree. There also are several states which prohibit hunting except from a tree stand. ←

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THE MOTIVATION MYSTERY



Age poses no barriers for this mixed group of novice and experienced archers.

ANYONE WHO KNOWS the secret of why one person is fascinated with bowling, another with golf or tennis or why fishing is another's major passion could easily make several million dollars. The reasons that attract individuals to a hobby or sport are, in fact, a complete mystery. True, a percentage play golf for social or business reasons, but in the overall picture, sportsmen choose their sport because they want to do it. Why they want to do it is next to impossible to determine.

When we delve into the subject of archers' motivation, we find complications beyond belief. Present day archery is split into so many fragments, it is almost impossible to call it one sport. For example, bowhunting is a complete sport in itself. To understand the motivation of bowhunters, you must first try to determine why the individual wants to hunt in the first place. Why would anyone want to wander around in below freezing weather, or rain and sleet, just to try to down a deer? Then to further confuse the issue, add all the problems of using a bow and arrow. It becomes an enigma.

The stock answer, of course, is the same as to the question, "Why do you want to climb the mountain?" Because it is there. Even this, however, seems to be more

logical than pursuing various types of game with two sticks and a string.

Even so, there must be some rational reason why thousands of bowhunters spend millions of hours attempting to get venison steak at \$100.00 a pound. Naturally, the sensible method for finding the answer would be to ask a few of these bow and arrow hunters why they do what they do. When you take the simple method, you get a simple answer, "I love bowhunting."

Now, when you ask the next why, you get a puzzled look. A look that clearly says you must be some kind of a crazy kook to ask such an asinine question. If an answer is forthcoming, it is usually, "I like the outdoors." When pressed as to why not just hike instead of hunt, you are right back to, "I love to hunt."

Flight shooting makes more sense. The answer to why is, "I live to see how far I can shoot." Any ignoramus ought to be able to understand that. They usually omit the number of bows broken and arrows lost and frustrating practice necessary to make a dent in the flight shooters' world. Never a mention of the \$100 a foot spent attempting to break a record. But, again, there must be some rational reason. What causes such devotion and determination to add a few inches to the flight of an arrow?

By Milan E. Elott



From left: Sandy Clifton, Sandy Parker and Suzanne Bennett are the types of women archers who today represent growing interest in the sport of archery among distaffers.

The most incomprehensible of all the questions about archery is why anyone wants to be a competitive shooter. Of all the sports in the world, tournament or competition, archery is by far the most difficult. The problems which confront a prospective score shooter are many and difficult. Every obstacle imaginable blocks the way to success. In fact, not one shooter in a hundred can face the ordeal for more than five years. There are many reasons for this. To begin with, it is almost impossible to find a coach who really knows enough to be of any actual benefit.

There are at least a hundred coaches who think they know, to every one who really knows and can produce. Until a coach has developed at least a hundred champions, he is a novice in the business. A coach who has produced only one champion usually had a champion to coach in the first place. Maybe that is how it should be done; don't coach anyone who doesn't appear to have the qualities of a winner.

Most competitive shooters are never coached. This makes it rough, and the chances of winning the big ones are slim.

It is a complete waste of time to attempt to get an answer to why from any competition shooter. Any veteran coach knows that the principal ingredient necessary to produce a champion is motivation. But what in the world is motivation? Further, after battling the crushing frustrations of advancing, what maintains that motivation?

The facts are overwhelming. A shooter works for years to develop a method of winning, when out of a clear blue sky, the rules are changed to outlaw his method of shooting. A coach works hard for ten, fifteen, or even twenty years to really learn to teach and, suddenly, for a few hundred dollars and a one week school, Certified Professional Coaches are graduated on a self-graded test.

The object of the sport has been twisted beyond belief. The unadorned object is to hit whatever the arrow is aimed at. How a shooter accomplishes this basic act is his problem. He certainly doesn't want some organization dictating inferior methods of doing it.

Tournament shooters must face unbelievable obstacles. A good example is referees who call shots in or out. Frankly speaking, it would be much better to flip a coin than call a referee to determine whether a questionable arrow is in or out. Admittedly, this is one of the major weaknesses of the sport.

Twenty years ago the target was not a problem; arrows were scattered all around it, and winning scores were many points above second place. Nowadays, the target is a real problem when first place scores are often tied or there is only one point between first, second and third places. In fact, the present targets are worthless and obsolete and have been so for at least five years.

Kiss-outs are also a major hindrance to fair competition. The shooter is actually penalized for good shooting. Yet, we call it competitive shooting. Lucky winning, yes; competitive, no. It certainly doesn't add to the inducement to spend years working to the top then lose by being unlucky.

When you have a sport that is constantly being altered it is hard to maintain that essential motivation.

Ask any manufacturer or his representative about targets, and he will advocate, will expand on brightly-colored targets. Ask a hundred shooters, and ninety-five of that hundred will state in no uncertain terms they prefer a black target with a white aiming spot — indoors and outdoors. Simply because they can aim better and see where their arrows hit.



Dedicated bowmen such as Dave Bennett have developed a love of the sport that is reflected in their scores.

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Sustained motivation evidenced by 67-year-old Sandy Elott is not widespread. The holder of the Sports Illustrated award, four senior NFAA field titles, she admits that some archers just don't know when to quit.

There is a huge campaign to sell archery as a fun sport. Nothing could be further from the truth. It is the most difficult, roughest, toughest sport of all. The equipment problems are enormous. Even with the finest coaching, it takes at least a year for an aspiring champion to begin to understand all the intricate details of keeping equipment tuned to the degree necessary to win.

When you ask a shooter why he participates, you will get a stary-eyed answer at the end of the first year, "I love the sport." After five years, "It is a challenge." If you can find one who has shot tournament archery ten years, his answer will be, "I'll beat this damn game or else."

Therein is probably the true answer. The few who have the unadulterated ego to believe that in the long run they can win and glory in the challenge, will never quit shooting. They feel they have a chance to win. This chance to win is far more important than our archery organizations have recognized. It has been practically destroyed by the sandbaggers, the fun name for cheaters. The cheaters destroy the chance to win for those archers who are trying to advance. When the chance to win is destroyed, the will to participate is eliminated. One possible method of curtailing sandbagging has been publicized but was scornfully turned down by one national organization.

There must be some way to promote motivation in archery. To date, we have been on the wrong track. It would appear that junking most of what has been done in the past and coming up with some new ideas just might be the answer. It might be smart to start telling the truth for a change. Widely publicize the fact that archery is the most difficult sport in the world. Why continue to try and sell the sport as a fun sport with brightly-colored targets and instant shooting in fifteen minutes. Sooner or later the truth begins to dawn on those who were deceived into believing it was something it was not.

Tell them it is not easy. Build up respect for the sport. No one cares for anything cheap, nor selling on the basis that anyone can do it. There is just as much motivation generated by saying it is not easy. We might get more new members, and it would certainly cut the enormous number of drop-outs we have experienced in the last thirty years.

It has been proven beyond any question that archery cannot grow unless we can curtail the drop-outs. The drop-out rate is far above sixty per cent. One reason for this terrible drop-out rate is crummy facilities. New shooters are not only indoctrinated with the idea that archery is easy, they are also given the erroneous idea that it is cheap. Facts again prove that it is not cheap. In fact, quite a sizeable bundle can be spent on equipment, coaching and tournament travel. Why not paint a true picture at the beginning?

No one has any false ideas on the cost of joining a country club. It is, however, a rare archery club that



Displaying his form, Larry Ware posted indoor score of an almost unbelievable 296 after less than three months of formal training. Motivation was involved in efforts.

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insures that the course is ready with good target faces and bales to be used any time during the outdoor season. Most clubs have shot up targets on the bales, but money in the bank. We wonder where the motivation went. Is it any wonder why they drop out. It is absolutely essential that tournament shooters have shoot-through-proof bales and a target complete with a spot to maintain interest in competition.

To date, nothing has been devised that will motivate the average shooter more than really spectacular trophies. The sure sign of a demoralized and diminishing club is shoots that started with trophy awards changing to medals and finally ribbons. These same club officials brag about money in the bank just before the club folds. Money in the bank does not motivate shooters; shooting for trophies

What Is The Lure Of Two Sticks And A String And How Do You Maintain It?

does motivate shooters. The universal failure to use graduated size trophies also promotes a lack of motivation for a shooter to progress. Why work when the Class D winner gets just as big a trophy as the Class A shooter? By the same token, when this happens, the Class A hard-working shooter wonders if it was worth the trouble, and he becomes a potential drop-out. Never, for one minute, forget the sneaky sandbagger who lies, cheats and steals for trophies.

In the author's years and years of experience, it has become increasingly evident that only a few basic reasons demotivate archers and cause most of the drop-outs. Target panic or freezing, or whatever you want to call it, is one of the genuine reasons archers quit. Simply because scores go down when it hits. The release may ultimately whip this one. Sandbagging is another primary reason, simply because it removes that precious chance to win. The only solution ever publicized is the Distance Classification. (Bow & Arrow Magazine, May-June 1970 Issue, titled Archery is Not Senile.) Following this system as written would crimp the sandbaggers' style so they could be wiped out.

To the best of my knowledge, no national organization has a committee to determine why they have drop-outs, nor a committee on how to prevent cheating, even though those two committees would be far more important than all of the many committees they now have put together.

In professional tournaments with flights, in the author's opinion, the sandbaggers have moved in. Up and until a solution is found, organized archery would show more growth without the classes. Organized archery is living on the life blood of new, inexperienced shooters, because the motivation of the present members is being stifled at club, state and national levels.

Ervin G. Kreisler, new president of the National Field Archery Association, openly indicated the horrendous drop-out rate, recently. There is no way to clean up a problem until it is brought out into the open and recognized as a problem.

Strong leadership in the right direction is by far the best method of building the sport.

An entirely different angle to a tournament archer's demotivation is equipment problems. Selection, tuning, and maintenance of equipment is difficult. Too many shooters fail to understand that their low scores may be caused by mismatched arrows, incorrect tuning, being over- or under-bowed, having a faulty sighting system and other items of this nature. The slight malfunction or destruction of the missile support can wreck havoc with the best shooter's accuracy. In other words, if your arrow rest cracks or busts, you have had it. No matter what the reason, poor shooting does not motivate.



At the Archery College in Georgia, author Elott looks over the form of a determined and seasoned shooter, B. H. Green, who wanted to become a winning archer.

One of the best demotivators, which is constantly repeated, is caused by the hot shot tournament rulers — tournament committees who insist that the shooting begin at eight o'clock in the morning. These characters have no idea of the problems, unhappiness and utter dislike they cause. They will never know how many shooters would have attended but didn't for no reason other than that eight o'clock starting time in the brochure. The author defies them to find two archers in a hundred who would not prefer starting at nine or ten o'clock. The cause is usually the promotion of double round tournaments, while national headquarters, state associations and clubs wonder where the membership went.

Sooner or later, some of these planners will take the trouble to shoot in a tournament and find out what the shooters go through and what the shooters want. Why doesn't it enter their heads to make all shooting positions for four shooters and double butt the course, which would

Continued on page 76

BOW POURRI

NEW ROUNDS

A new 600 round honoring and named after James Easton, has been approved by the NAA. The round consists of twenty arrows — four ends of five each — at sixty, fifty and forty yards. The target face is a standard forty-eight inches. The values range from the center out, starting with ten and decreasing to one. The Easton 600 replaces the 300 Outdoor Round.

An Indoor Bowhunter's Round, designed by Bear, Joe Rusinek, Chuck Nicholas and Gordon Bentley, ALOA president, consisting of three animal targets in various sizes, with scoring dependent on the proficiency of the archer in hitting the animal's vital areas, will be shot at participating ALOA lanes.

Shooters will receive membership in the Fred Bear Sports Club and be eligible for the new Indoor Bowhunter Round Award and Animal Bowhunting Award patches.

The Indoor Round Award levels are Bowhunter, Tracker, Stalker and Expert Bowhunter.

WHERE THE SHOTS ARE

The Field Archery Championship of the Americas will take place in Louisiana, October 27-28. Twenty-eight Hunter and twenty-eight Field events will be shot under international field archery rules. Competition is open to all Western Hemisphere nations. Competitors per nation are limited to four men and women in amateur barebow and free style shooting.

The seventh annual White River Bow Hunters' Jamboree will be held September 9 at their range located on Highway 37, two miles north and one and one-half miles west of Mitchell, Indiana. Camping space is available at the range. Twenty-eight laminated animal targets will be the main event. Registration from 7 to 10 a.m.

The Las Vegas Archers are hosting their Ninth Annual Silver Dollar Shoot September 22-23, at Cougar Canyon in Red Rock Canyon, twenty-five miles west of Las Vegas, Nevada. They say to travel west on Charleston Boulevard

and follow the archery signs. There are campsites at this big, fun-filled shoot. Food will be served three times a day. Information from Mary Lynn Snyder, 6409 Brittany Way, Las Vegas, Nevada 89107.

The first annual California State Field Championships of the State Archers of California was shot on the field range of the Santa Barbara Archers, Santa Barbara, California.

Bob Nash of San Jose won the amateur men's field championship with scores of 548 and 518. Kevin Erlandson, of Elk Grove, current national target champion, was second with 541 plus 491. Wally Schwartz, of Riverside, was third with 1014 total.

The women's amateur field championship was won by Dorothy Cayongcong of Lodi with scores of 431 and 353. Joanne Katonic, also of Lodi, placed second with a 653 total.

The intermediate boy's title went to Kirk Welsh of Garden Grove, with a total of 889, while Mark Wollman of Shennan Oaks won the junior boy's title with 721, followed by Wayne Wopschall at 602 and Brad Welsh at 576.

The men's professional field championship went to Art Robinson of Garden Grove with 997, second place went to Joe Headlee of Santa Ana with 976, followed by Samuel Benoun of Garden Grove with 828. The women's professional field champion was Marjory Lammers of Azusa.

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Continued on page 60

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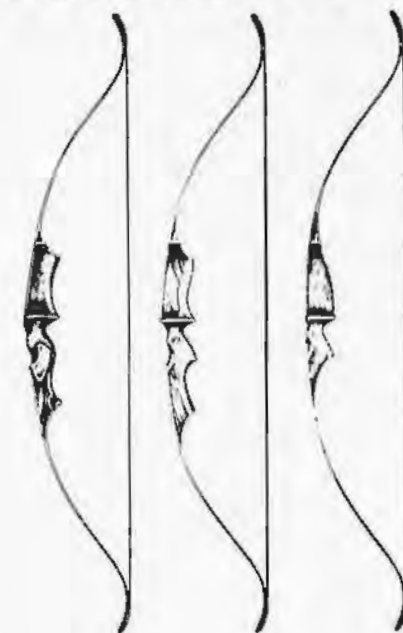
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CROUCH FOR KANGAROO

By Vince Hamilton

Stalking These Wary Australian Critters Is Similar To Some American Game - Only Different!

DESPITE CONSTANT SHOOTING by professional rifle hunters, kangaroos still can be found in good supply throughout Australia. The three definite species are: The gray 'roo of the timbered bushland, the red 'roo and the blue 'roo of the open plains. The latter, which is the female of the red 'roo, is commonly known as the blue flyer.

Kangaroo skins are of an exceptionally high quality, the best leather coming from the red and the blue 'roos, while the gray, although it has a high quality hide, supplies a natural fawn fur for feltmaking. Skins taken from the blue 'roo also are used for making children's toys which are keenly sought after in Australia these days.

A small strip of 'roo skin, well tanned - only one

eighth of an inch wide, will withstand a tremendous amount of strain. 'Roo leather also is used in the making of boots and shoes of a high standard.

When kangaroos are concentrated in large numbers - as they are in many areas throughout Australia - they become a serious pest and a menace to the landowner. They eat only grass and crops and, in the dry seasons, a 'roo will die before changing its diet.

In netted areas, one would have to see it to believe the amount of destruction that is done to netting fences. It is said that a bounding 'roo has been recorded of passing through a 14-gauge netting fence, tearing it asunder as if it were string. So as far as netting fences are concerned, if a

'roo can't get under, over or around the fence; it will go through it.

Contrary to popular belief, a 'roo bears its young like any other mammal and the breeding timetable from conception to the birth of the joey is within eight weeks. At birth, the joey - as a young 'roo is called - can be as small as three-quarters of an inch long. The mother helps it into the pouch, where it takes the teat in a remarkably firm manner. The female 'roo has the ability to eject milk from its teat into the young joey, as it is too weak at birth to suck.

Completely white or albino 'roos also exist, but these are very rare and the male 'roos - or bucks, as they are called - grow to be extremely large animals.

The best hours for hunting kangaroos are from daylight till about 9 a.m. and again from 3:30 p.m. until dark, which is usually about 5:30. It's easy to see that, out of the twenty-four hours, only four hours constitute excellent hunting time, but those four hours, early and late, are

Author poses with mammoth old buck (opposite page), downed with a Bear Razorhead. It traveled 40 yards before dropping. The medium-size gray was arrowed from 35 yards with 51-pound Jack Howard Gamemaster. Cedar shafts carried Razorheads, quiver from Hill.



The author, stepping on a twig, alerted these three 'roos while feeding. Their highly-developed senses make for challenging stalking, and one misplaced step can give an archer the roger. They can fly!



Kangaroos are found in varied terrain throughout Australia, and are classified pests when numbers increase too high. They are noted for their speed of travel - up to a reputed 80 mph - and can bound 25 feet on powerful hindquarter and tail.

worth twice the remaining hours in hunting time.

Bowhunting any of the species either on the plains or in the densely timbered hills is really a test of perseverance and determination for the stalker. While feeding in the open, 'roos are seldom found far from the safety of tree cover in which quiet stalking is all but impossible. Most opportunities for a bowshot at a 'roo come when the animal is on the run, a shot that is no easy feat to perform, even for the experienced bowhunter.

'Roos have an amazingly keen sense of hearing and a remarkably developed sense of smell. Their eyesight also is most exceptional. A 'roo can smell a human hundreds of yards away under certain conditions and the unnatural snapping of a twig by a human's foot is enough to tell it



Arrowing a 'roo in full-flight is nigh impossible, happens infrequently at best. During winter months, their hides make nice trophies for homes.



The paw from a good-sized gray 'roo dwarfs a three-by-one-inch broadhead. The claws of the foreleg paws are capable of disembowling an adversary, as are long nails on tips of hind feet. These kangaroos are herbivorous, not meat-eaters.

that the situation is far from ideal: A kangaroo would waste little time getting out of such surroundings. Powerfully muscled hindquarters and a strong back provide ample springing power, aided by a heavily muscled tail as a balancer. It has been reputed to attain prodigious speeds up to eighty miles per hour for a blue flyer and equally prodigious leaping power, both up and long. I have measured regular hops of twenty-five feet to around thirty feet and when the emergency arises, a seven-foot fence is not a barrier, but usually a 'roo would prefer to go through a hole or under a fence. Trying to get close enough to send an arrow spinning towards an undisturbed 'roo is a fascinating sport. Especially if you're stalking a mob, as they will post a sentry and eat at intervals, but if you're lucky enough you can usually find a lone 'roo, which makes the task of getting close enough somewhat easier. Firstly, having spotted the 'roo — presumably feeding — I then wait until he puts his head down to feed before I make any move to start closing the separating distance.

Watching the 'roo closely and making sure there are no twigs lying in my way of travel, I then start pussy-footing forward making certain that my bow will not knock against any rocks or trees and give the alarm signal to the feeding 'roo.

If at any time the 'roo looks in my direction, I freeze in my tracks and remain completely stationary, until the 'roo staring at me goes back to feeding — then I start my procedure over again, until I feel sure that I'm close enough to place an arrow in the animal's vitals. In stalking in this manner it is possible to get really close, providing the wind is coming from the 'roo to the stalker.

I have learned from experience, the best idea is to get as close as possible to the marsupial before shooting. In doing this I am then sure that I'll kill the 'roo with a single shaft.

If you are in good 'roo country, experience will tell you just where to find them. 'Roo's seldom will hop where a human won't walk, but when the old buck is pushed, he will hop almost anywhere. In tracking a wounded 'roo this aspect of the animal's make-up will decide the tracker where he is most likely to find his wounded quarry. The

actual set and pattern of a wounded 'roo's toe marks will indicate to the trained eye whether the 'roo is hopping upright and strongly, crouched and steady, whether it's balanced, or weakening in its flight.

Out on the flat inland plains, during the hot months of the year, 'roos can be ambushed by the waiting hunter at watering points. This method is about the only way for a bowhunter to obtain a kangaroo for a trophy in our outback, mainly because there is little cover which the hunter can hide himself amongst.

In some cases, a 'roo can be dangerous, perhaps not in the same manner as a lion or tiger, but it can bite and it can disembowel an unwary hunter with its long sharp claws on its hind legs. Their powerful forearms also are equipped with sharp claws that can cause extremely severe wounds.

Like hunting most animals with a bow and arrow, experience usually plays the most important role. Moving only when time prevails can become quite frustrating, but with a little patience and determination the end result is usually worth it — a fine skin on the floor and a memory that is everlasting.

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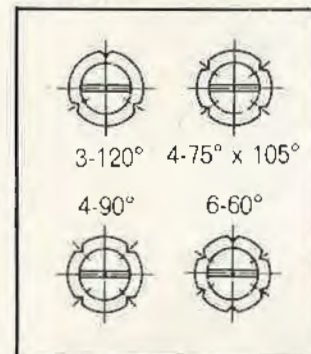
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Richard A. Benfield is the new data processing supervisor at Bear Archery, replacing Ralph Stevens, new director of administrative services. Benfield will be responsible for all computerized reporting, computer programming and supervision of the computer and sales order desk personnel.

BUSY BEARS

Robert A. Bigler has just been appointed national accounts manager of Bear Archery. A PAA member, Bigler used to own a pro shop and has served as an officer in archery and conservation clubs at local, regional and state levels since 1962.

Ray Fling is the firm's new national sales manager. An experienced bow-hunter, he brings with him a wide background in sales.

James Harden is a new district manager. He is the holder of six Michigan archery titles, four amateur and two professional. He will cover the lower peninsula of Michigan, Northern Indiana and Northern Illinois, including the Chicago-land area for Bear.



Jim Harden

MERIT WINNERS

The following constitutes a complete list of Sports Illustrated Award of Merit winners who have received the award as a direct result of PAA sanctioned competition while members of the PAA: Victor Berger, Springfield, Ohio, 1967 Pro National Champion; Lucille Shine, Los Vegas, Nevada, 1967 U.S. Open Champion; Margaret Tillberry, Springfield, Ohio, 1964 Pro National Champion; Ann Butz, Suffern New York, 1972 Pro National Champion.

TO GREENSBURG

The Carlisle Leathercraft Company was just purchased by the Feline Archery Company, Incorporated, and will move from Carlisle to Greensburg, Pennsylvania, according to Richard G. Weigold, president of the purchasing firm. The Carlisle name will be retained.



Bob Bigler



Ray Fling



NICHOLAS TO PRO LINE

Marilyn Nicholas of Warren, Michigan, owner with husband Chuck of the Starlight Archery Company range of Detroit, has been appointed to the advisory staff of the Pro Line Company.

Mrs. Nicholas is the first woman to become a PAA certified instructor and a frequent money winner at PAA shoots. She just won the Michigan State Flint round championship using the Pro Line Black Widow.



Margaret Tillberry and Steve Robinson

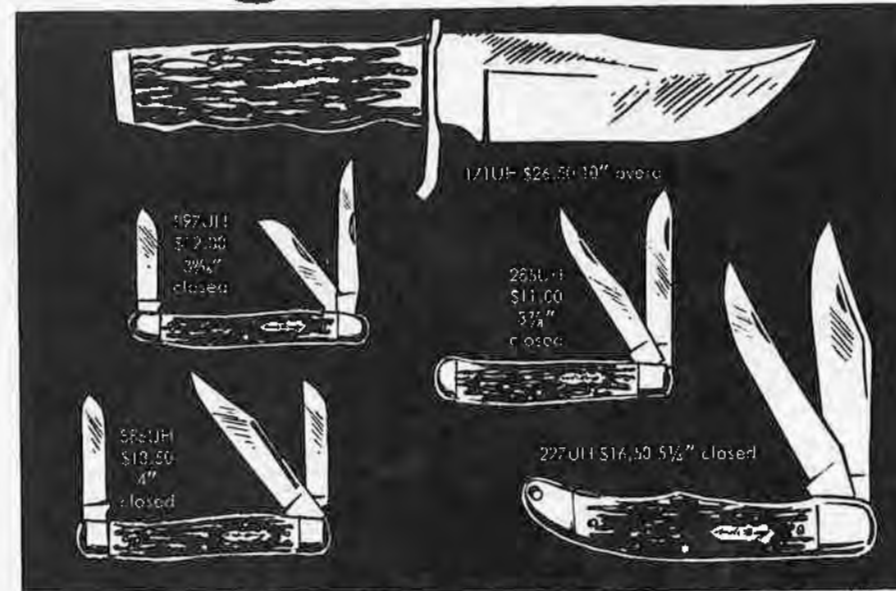
TOP FINAL INDOOR

Margaret Tillberry of Springfield, Ohio, whopped up a 584 aggregate to take first at the first annual Ann Marston Memorial Archery Tournament held at the Yack Recreation Center in Wyandotte, Michigan, the final indoor competition in the 1973 PAA tour. Steve Robinson of Richwood, Ohio, currently ranked sixth, wound up with 595 to take top male honors.

Second place in the men's division went to Bob Bitner of Grayling, Michigan, and Chuck Jordan of Rural Valley, Pennsylvania, both of whom totalled 594. Bitner shot the event's high single - 299.

Judi Ann Webber of Indianapolis took second in the women's with 583 to edge out Annie Butz of Suffern, New York, who pushed in 581 for third.

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FLU-FLU IS A LULU

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IN MOST DO-IT-YOURSELF archery tackle projects, there generally are some materials left over, and fletching is no exception. When you make your hunting arrows you use the best center cuts of the feather, providing you use the full length style, and usually throw away the top or tip end.

In my case, over a period of time these tips collected in a plastic shoe box till it was overflowing. When it came time to throw them out in a cleaning spree, the idea of making flu-flu arrows from these tips dawned like the proverbial light bulb.

A sample series of six were made using the dyed barred tips from a series of hunter arrows made several years ago. These barred feathers are now hard to obtain so, being frugal, the tips had been saved thinking they might be used for fletching the arrows for younger shooters. They ranged in length from two to almost five inches in length before the quill became too narrow for fletching.

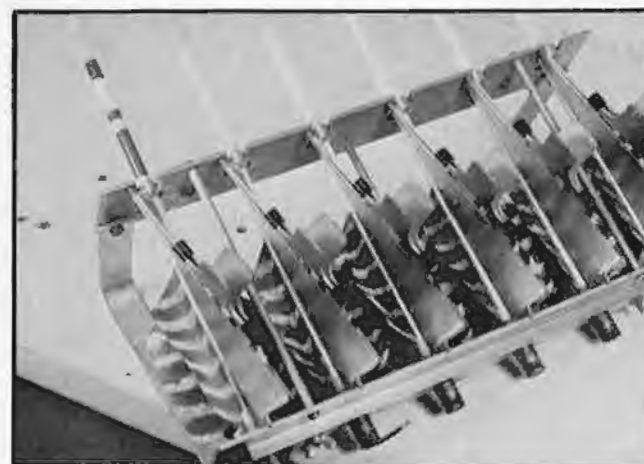
This accumulation of tips was sorted and cut to a minimum three and one-half inches and up to four inches in length. This did two things at the same time: It gave me the fletch needed for the flu-flu and cleaned out the box for future use.

BY STEVE BARDE

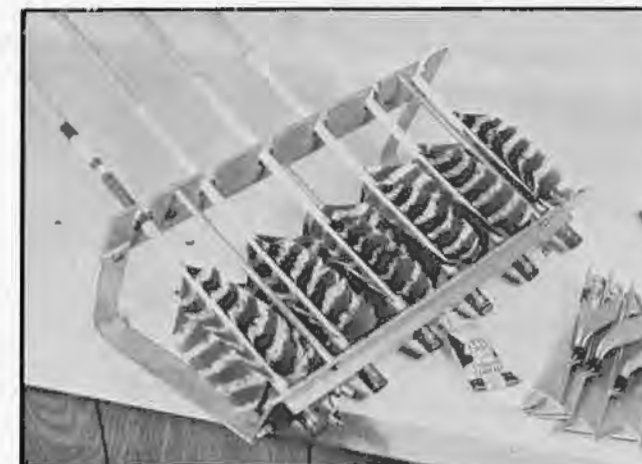
When a series of these shorter fletches had been cut and set by the Gebhardt Multifletcher, the fun began. With the Gebhardt you can make several different fletches depending on your desires. Mine offers a three-fletch of 120 degrees each, a six-fletch of 60 degrees or a four-fletch of 75-105 by turning the nock locator over. I decided to use the six-fletch system to give the maximum resistance to the arrow, slow down the flight to act as a flu-flu should and to use more of the tips.

The shafts chosen were some cedars that had been set aside and this seemed a good use for them. The nocks were positioned properly to follow the grain of the arrow to get the maximum spine and placed into the fletching jig. The first feather was set into a helical clamp, a bead of Everfast glue applied to the quill and positioned on the shaft. You don't need the helical fletch for the flu-flu, but since the jig was already set for the helical clamps, they were used.

Allowing at least twenty minutes for the glue to set due to cold, damp weather, it was merely a process of setting the next feather in the clamp, rotating one click on the



The last fletch, the sixth, is drying in the clamp. The fletch is cut at four inches, since that is the longest available from the discarded ends which were utilized.



All six fletches, cemented to shafts, are ready for trimming on forward section of the quill. A small dab of cement at front and rear helps maintain the fletch.

Gebhardt and waiting again. When the final clamp was removed the set of six flu-flus was almost finished. All that remained was to place a drop of cement on the top of each feather and at the bottom. The drops insure proper holding of the feather when flying through the air and passing over the bow.

The feathers were left with the full width, they weren't trimmed as you would normally do. They looked a bit ratty in that respect but they weren't objectionable. A trial shot or two proved they worked as a flu-flu should. The flight was short, the whistle was there and they had the braking system for a short flight.

The flu-flu is a short range arrow used for flight shooting at aerial targets. They can be used for wing shooting at birds in season and the main idea behind the massive feathers on the flu-flu is to prevent the arrow from flying into the next county. They are much slower than a standard hunting fletch.

There are many ways of making flu-flu arrows and this is just another version that will help clean out the shop if you

have a habit of collecting things. Personally, I never hunt with the short flight arrows since it is hard to judge speed of an arrow to that of a bird. For aerial targets and the occasional novelty round in club shoots, they are used quite often. The same method of six-fletch can be used with good full-length feathers but this economy set will fly as well as the others; however, they probably won't last as long.

If you have a mixed bag of tips, some grey barred and some natural or dyed white, don't mix them unless you alternate with a grey bar, then a white. As a rule, the white feathers aren't as stiff in body as the barred and they will bend more on release, giving a possibly erratic flight. You can use all grey, all whites or a combination of mixed colors for some really wild flu-flu arrows.

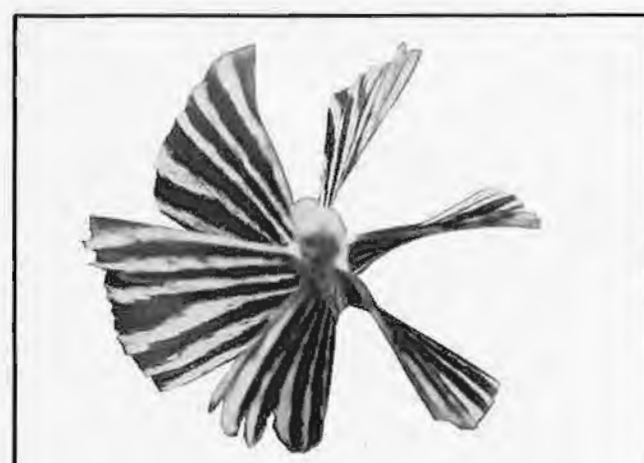
Dig into the pile of accumulated feathers, pick out some that will cut almost four inches and make a set for your novelty shots. They won't cost anything but the price of the shaft, some glue and time. The feather might be called an added bonus since you have already used the better area for a hunting or target shaft. ←



Materials needed for flu-flu making include the tips of full-length feathers, shafts, scissors, cement and jig, which is Gebhardt-Fletcher with left wing multiple clamps.



After trimming end of fletch, put it in the clamp, then apply cement down the quill. Set indicator nock on jig for the first station, then place the clamp in position.



Looking down the shaft to the fletch, one sees helical turn and number of feathers used. This helical, plus the six fletches used, makes for a slow-moving arrow.



Inspecting the fletch from the side, one can see that edges are left untrimmed. Only the back section of the nock has been trimmed to keep even on the shaft.

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1974 DESERT INN ARCHERY CLASSIC

ONCE AGAIN, Something for Everyone is the planned format for the 1974 Desert Inn Archery Classic. Formerly the U.S. Open Indoor Archery Championships, this celebrated tournament again will be held at the Las Vegas Convention Center on January 25 through 27. It offers \$20,000 in total prize money, as well as many new, interesting attractions, according to Joe Johnston, again the tournament director.

Heading the list of attractions at the classic is the all-new Easton Speed Round. This round, developed by Easton, is designed to add a new dimension to archery... the object being to see how many arrows can be accurately shot in a pre-determined time period. It is an exciting and entertaining round for both archer and spectator, and should provide those archers interested in developing their

hunting skills a chance to compete against one another.

An increased portion of the prize money will be put into the barebow and bowhunter division this year, and this will include the Easton Speed Round as part of the competition.

For the second straight year, amateur collegiate teams are being invited to the Desert Inn Archery Classic to participate in a special round. As an added attraction, the collegiate portion will be increased from \$1000 to \$2000. Winning collegiate teams will split the \$2000 in grants to be given to the archery program at their colleges, \$500 going to the winning male team's school and \$500 to the winning female team's school.

A special amateur perpetual trophy will be awarded to the highest scoring lady and gentleman amateur at this year's tournament.

Bonus money will be awarded to the top man and woman shooters in

Continued on next page

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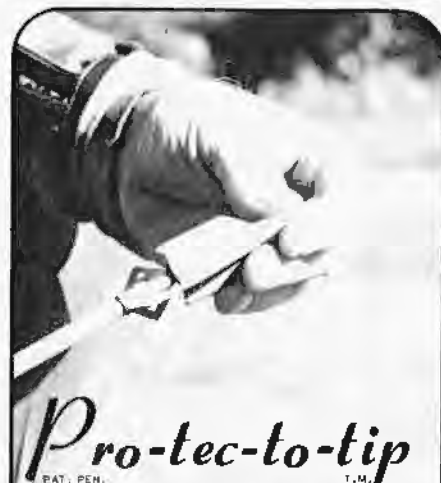
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DESERT CLASSIC

Continued from page 57



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Amateur trophies will be awarded
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Page 81

BOW POURRI

Continued from page 47

draws from sixteen to twenty inches, producing arrow velocities of about 200 feet/second.

"Our best shooters can put practically all arrows inside a nine-inch diameter circle at forty yards, with perhaps half or more of these hitting within the four point eight-inch diameter gold. Our usual shooting distances range from forty to a hundred yards; with occasional clout shooting at 180 yards, and flight competition for maximum distance - present record: 1313 yards.

"Most of us get our practice, throughout the year, by belonging to whichever longbow club or state archery association is handiest and make a point, at their invitation, of participating in their target shoots whenever possible. As already stated, we never compete with the longbow archers, but only with each other - although we stand on the longbow line - usually at one end. Quite a number of our best shots are women. Many of our members compete each year in the various crossbow event championships held as part of the program of the Annual Target Championships, shooting according to the crossbow tournament rules of NAA."

Membership in The National Crossbowmen is open to anyone interested in sending \$3 to Mrs. Murvil H. Bumble, 3658 Epworth Avenue, Cincinnati, Ohio 45211.

HAWAIIAN HIGHLIGHTS

A Hawaii state archery record was set by Air Force Technical Sergeant Bill Kittredge, who shot a perfect 560 at a recent Hawaii Armed Forces Archery Club invitational competition. Kittredge sent 112 arrows in a row into the bullseye.

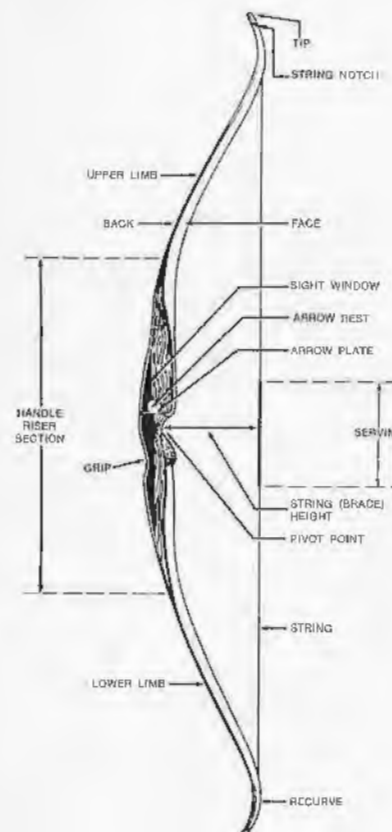
Not to remain out of things, his wife, Joyce, won a National Field Archery Association Robin Hood award for putting one arrow into a bullseye and splitting the arrow with her next shot from a distance of sixty feet.

BOW TAX

H. R. 11091, a Federal bill concerning an eleven percent tax levied on all archery equipment, signed into law October 25, 1972, goes into effect in 1974. The tax will be reserved for wildlife restoration.

What has the crossbowmen in an uproar is that they get taxed on their crossbows, but are not allowed to hunt in most states. Their plaintive quote on the subject, "Start writing to somebody."

AMO STANDARDS HELP ARCHERS COMMUNICATE



ANYONE WHO HAS ever stumbled through the first year of High School Latin can readily appreciate the difficulties encountered by the foreigner who tries to fight his way through the maze of homonyms and heteronyms generously sprinkled throughout the English language.

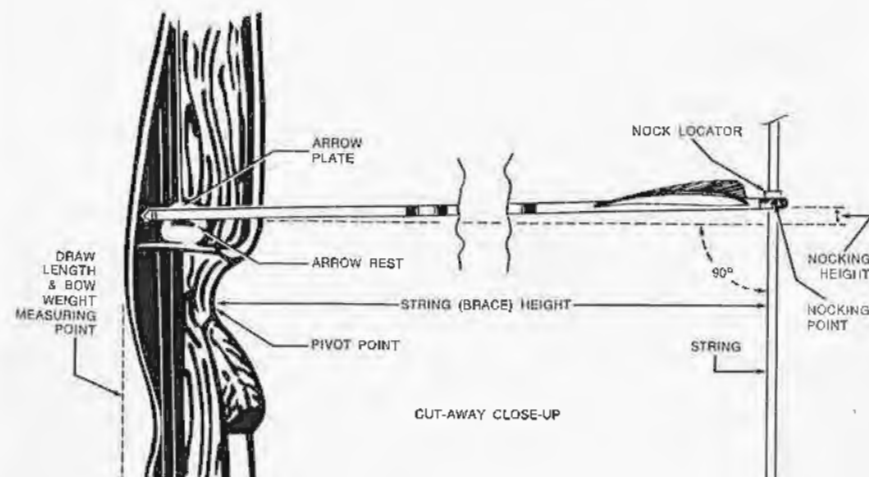
From words pronounced the same but spelled differently and having different meanings - homonyms, knock and nock - to those pronounced differently but spelled the same and having different meanings - heteronyms, bow and bow - not to mention those pronounced differently and spelled differently but having the same meaning - synonyms, release and free - well...it's a wonder we ever really know what we're talking about.

Some sort of this same situation was evident among the bow and arrow fraternity until 1968, when the Archery Manufacturers Organization led the way in simplifying and lessening the confusion brought about by the use of interchangeable words such as fistmele and string height.

Deciding that common, simple terms were the best, the AMO drew up and adopted industry-wide standards for bow and arrow nomenclature - standards which are recommended by the American Archery Council.

Until approval of the new standards in February 1968, every bowmaker

Continued on page 80



ARROWS

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City Lights Is Some Great
But Demanding Deer Hunting!

BUCK BUST'N BOWHUNT

uncommon to those who so desire.

Repeat trips are common and this enables one to locate certain areas that are superior to others. The next decision is your own. Just who do you tell about your local hot spot? I can recall many times visiting one of my better spots to find it looking like the ticket line for Walt Disney's first X-rated movie!

To the best of my knowledge, the particular area I had chosen to hunt this year was being frequented by only a couple of other hunters. I had seen many nice deer here and had had a few shots; nothing really to brag about, but a couple to be embarrassed about.

I TURNED BACK for one last look over the hillside that was certain to be empty. Had it not been for the angle of light reflecting on the bushes, I never would have seen him. Peering down upon me from an oak infested vantage point was the lone forkie I had missed only a couple of hours before.

His coloring and markings were excellent camouflage for this particular area. Had it not been for our previous acquaintance and a quick insurance glance through my binoculars, I never would have seen him.

Slowly I moved into a semi-military squatting position and prayed that the deer would ignore me. Eight years of bowhunting experience should have told me that all the prayers in the world wouldn't bring my wish. I was standing right in the middle of an open flat. The closest cover was twenty yards away.

If I could get to the base of the hill without much disturbance, a forty-five-yard shot would not be too difficult. A quick once-over of my past experiences brought about my next move. I planned to slowly walk towards the buck and hope that his curiosity would stay with me to get off at least one shot.

It was hard to believe that I had left work only a couple of hours ago. Living in South Pasadena, California, the Angeles National Forest is only a short thirty-minute drive from my house. This set of mountains is one of the steepest ranges in all the United States. Only die-hards brave these hills in search of game with bow and arrow.

Certain parts of these mountains are open to rifle hunting, but the better areas are open to bowhunting. This is where my fellow comrades roam many a morning and afternoon in search of the Pacific Coast mule deer that inhabits much of this area. A quick hunt before or after work is not

Imagine, two shots at a dandy fork-horn deer that would score around 110 in the California Bowman Hunters Big Game Club. I missed him clean both times at under forty yards. Excitement is my only excuse!

In Los Angeles County, a bowhunter has a good chance with special extended seasons to bag his deer. The Department of Fish and Game for the State of California issues 2500 special permits for archery use in the county

area. These permits cost five dollars and are issued on a drawing-type basis just like all the other special hunts in California. With that number of permits, I can't recall anyone who applied for one not receiving it. In fact, the requests usually are so limited that anyone who has not received a special permit for that year may just purchase one of the leftovers at the Fish and Game Department in Long Beach, California.

By Pete
Fosselman



When the regular deer season for the inland portion of the state opens, the Angeles Forest section south of the Rincon-Redbox Road is closed due to the extremely high fire danger. Only two inches of rain from the same storm will open this area up on a permanent basis. Other than that, a permit is required to enter the area. Such a permit will be issued only when the fire plan for that day is a one, two or three. These plans are set by the Department of Forestry depending on the moisture, the wind, precipitation and other factors that determine if tromping around in the forest is a wise idea.

Southern California, noted for its dry climate, usually does not receive this two inches of rain until the end of October or the first of November. Many times we don't receive our rain until December. By this time, the regular deer tags are invalid and the special permit is a must. The special tag is valid for an antlerless deer during the first month of issuance and becomes an either-sex tag after that. The season for the county archery tag extends to January 31 of the following year, the legal date to hunt.

One can see that this enables you to hunt for quite a long time; plenty of



time to bag your deer, if one ventures to the local hills often. And it's a lot closer than Utah, Colorado or even Arizona.

A little practice prior to the hunting season and also during the season never hurt anyone. One of my favorite ways to bone up on my hunting tactics and aim is to have a stump shoot. This

Author inspects the path he must take, if he is to cut off the wily buck at the pass, getting within a respectable range for killing shot.

is nothing more than just what it sounds like. Shooting at old tree stumps, branches, discolored patches of dirt or even rocks that do miracles for your arrows are the targets. Actual hunting shots are experienced here by shooting up and downhill, across gulleys and ravines, and other situations that can't be encountered on a regular archery range.

For some strange reason, to me, twenty or so bales of hay all lined up in a neat row and little white marker stakes, don't resemble hunting situations. There aren't going to be any little stakes stating "thirty-five yards" up in the hills!

Rules for a stump shoot are very simple. Closest to the agreed upon target wins. The winner then picks the next target and the position from which it is to be shot. A nickel or dime shot here and there always adds a little incentive and excitement to a stump shoot.

Penetration into the local hills can be done in many ways. Some of the local bowhunters often get together on a Saturday morning for a deer drive. This happens when all involved move across a spread of hills hoping to stir up the deer and drive them toward someone who might get a shot. Even

you yourself might get the shot. From drives that I have participated in, this method usually fails. Only discouraged hunters and tired feet remain; no venison. I do recall, however, that "Big George" had stood his last stand to a deer drive.

"Big George" was a dandy forked horn deer that was shot by George Kili. It was the last day of the season and a massive conglomeration of hunters had descended upon the locals to give it all they had. Many of us had seen this nice deer before, but it somehow managed to elude us before we could get a decent shot. Many shots at Big George were usually just at a blur. He had a lot of luck.

I haven't the faintest idea where in the hell the name of "Big George" came from, but it did. All in all, it must have been proper and fitting that Mr. Kili got the buck, since it was his namesake. There were just so many of us running around the hill that day, "Big George's" luck was eighty-sixed!

I prefer to hunt alone or with one or two others at the most. Most of my hot spots would be thoroughly trampled if I were to arrange a deer drive through them. Besides, these days hunting areas aren't the easiest to find.

The recent successful move by the Los Angeles City Council to close all the hills in the City of Los Angeles to archery hunting did us a world of hurt. Now only county property and about ninety percent of the national forest located at the top of cities like La Canada, Altadena, Sierra Madre and Arcadia remains open. We made a decent showing at the council meeting with our pleas backed up by petitions and whatnot, but the society people had us beat from the start. What we need is more hunters to stand up and fight for our sport!

Many claims of little children and pets being shot or shot at did the trick. I just can't imagine a bowhunter actually shooting at someone's child or pet. This is just ridiculous.

Today, with the city areas closed, and county property at a bare minimum, the national forest is the best thing. This is where I hunt and spend my time. This land belongs to all of us and it will take one heck of a maneuver to close it. I hope to never see it in my day.

I had been going hunting practically every day for two weeks straight after our first rain and the forest was now open on a permit arrangement.

I was quick in regaining my

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Left: The author checks the area of the Angeles National Forest almost within sight of city lights where he hunts. (Lower left) He practiced for serious shots on holes, stumps.

mountain goat legs but only being highly successful in driving the deer farther and farther into less accessible areas. A two-week vacation seemed appropriate and was placed on the agenda. I was hoping that the deer would come back to my favorite area and this would also allow me to catch up on my past-due homework. Everyday hunting and a full-time college schedule do not go hand in hand. No matter how many times my parents tried to tell me this, I preferred to hunt. For me, this was an excellent choice for both hunting and school-work.

It was a Tuesday afternoon and things were slow at my part-time job. My uncle, Jim Fosselman, for whom I work, confronted me with the statement, "You haven't been hunting for a couple of weeks now; you're going to lose your touch (what little I had) and get all out of shape." That little statement was all that was needed to get things rolling again. My only answer was, "I'll have to agree."

After a few quick thoughts, I punched out and decided to go check out my vacationing area. If things were as I had hoped, it should have been pretty good.

At home, a quick change of clothes and a reach for my bow brought on a sudden halt. There were five remaining

arrows in my bow quiver and they were all bent. Nobody to this day knows just how it happened but it did. After a few four-letter words to myself, the only thing left to do would be to fix up some new ones.

I had been quite anxious to try some new arrows I had received anyway, but eliminating the old ones in this way was not my intention. Aluminum arrows don't come cheap in my pocketbook. I had received some partially dipped fluorescent arrows from Ralph Wingert at Pacific Archery in Panorama City. These turned out to be so bright and pretty that I hated to use them for fear of loss. But then again, any arrow that colorful would be hard to lose in dirty hills.

Ralph had convinced me to order a dozen for hunting in the early mornings and late afternoons. The bright color would enable me to see the path of flight even when dark shadows were present. This would surely be my chance. It was going to be Easton aluminum arrows in the 2018 size all dolled up like the Fourth of July in the hills today.

I installed some new heads called the "003". I had won these broadheads in a raffle at the annual dinner banquet of the Sagittarius Field Archers, held last summer in Pasadena, California. Razor blade inserts in the

three-bladed head guaranteed the head to be truly sharp. Replaceable inserts would be a definite help in the field. No excuse for dull broadheads could be accepted if 003s were being used.

Six arrows were installed in the bow quiver mounted on my Jennings compound bow. The bow had been tuned to fifty-four pounds for my 29½-inch draw length. The limbs were capable of being cranked up to sixty-five pounds but at fifty-four pounds, it was plenty potent for the local deer.

With my compound bow in one hand, binoculars and other essentials in the other, I loaded my truck and was on my way. In thirty minutes I arrived at the Chantry Flat Ranger Station to check the fire plan. It was a two, so I had no problem getting my permit. One of the rangers, Mike, whom I was getting to know, thought I was crazy. He had heard of deer being shot with a bow and arrow but figured it was luck and not skill. He figured there were better things to do than waste my time running around in the hills. But nevertheless, he didn't care, since it was my time and not his.

I had already made him the promise, "You just wait. The season is still early and I have lots of time. If and when I bag my deer, you can pack it out for me." Mike felt pretty confident that his back would never get sore and just laughed it off.

After a short drive from the ranger station, I was off afoot into the hills. I had not left my truck but five minutes when I was eyeing a nice buck bedded down some ninety yards away. A narrow deer path would lead me around the hill to a spot that appeared to be only thirty-five yards from where the buck was bedded.

A slight breeze was blowing in my favor. Now it was up to me. I slowly inched my way around the path, keeping one eye on the deer and the other on where I was walking. The trail could have been only a hundred yards long, but it seemed like a thousand. At last I reached the spot I had set out for and was sure that I had not been detected.

Many bushes now blocked what was to be my thirty-five-yard shot. You make a beautiful stalk, now what the hell do you do? If I were to go around the bushes to the left, surely the buck would move out to the right; if I try to go around on the right,

Continued on page 68

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BUCK BUST'N

Continued from page 66

you guessed it, he'll move out to the left.

While I was pondering this idiotic situation, so was the deer. He had sensed something and was cautiously trying to slip away. Only his movement had caught my eye, as he was sneaking off to the left down the canyon. The only shot I would have would be to sneak back along the trail on which I had arrived, hoping for an interception enroute.

I cautiously scrambled back along the path and planned to meet the deer at the other end. About half-way back, the deer spotted me and figured out my plan of attack. A quick quarter-back sneak resulted in a reverse for the deer. It was a beautiful play. Only if the LA Rams had used it!

I wasn't to be outdone. I figured if the deer wanted to play games, count me in. I reached into my bag of plays and tried to pull out one of those Roman Gabriel goodies. Need I say more? You all know how those worked this past season. Lousy.

After a violent struggle with a defensive line of trees and bushes, I managed to finally retreat to my original spot. The deer was running at full speed now at what I guessed to be fifty yards. To full draw I went with the proper aim and lead to follow. The mere fact that the deer was only forty yards away was to be dealt with later. I had missed by at least a foot right over his back.

"Great Peter A.," I said to myself as I headed for another area to hunt. "You spent all that time practicing and whatever, only to blow a beautiful shot at forty yards," were my next choice of words. Well, why not? It was only in keeping with my average of forty-yard misses that year.

A couple of does were all to be found in my other area. The special permit would permit me to take a doe, but not for another week when it became valid. It was still a forked-horn deer or better.

I had watched that buck move out down the canyon and across an open flat that would be accessible from another canyon entrance farther down the paved highway.

I decided to return to my truck and give it another try at the only legal buck I had seen all afternoon. I arrived at the canyon entrance and properly parked my truck off the highway in a turnout. Only about an hour of daylight was left, so I was going to have to hurry.

Up the canyon I went, right to the spot where the buck had crossed. In a

Continued on page 80

Still somewhat dubious as to his luck in scoring a hit, the author cautiously moves in on the downed whitetail.



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LISTED ON PAGE 80



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Unique, low-priced arrow straightener that does a precision job on aluminum shafts, was off the market for several years. It is being re-introduced this month for \$29.95. Key to mechanism is a changeable stainless steel bushing in tool handle and a close-tolerance rubber disc that slips over nock for exact alignment. Hand pressure on grips eliminates the curves. From COVY Arrow Straightener Company, Dept. BA, Box 498, Moraga, CA 94556.



MINUTE DRESSER

The Wyoming Big Game Knife has a razor sharp blade made of surgical steel and includes a heavy-duty leather sheath with provisions for carrying spare blades. The knife sells for \$12.30

with blade, guard and sheath. Replacement blades are provided at \$2.10 per set from Robin Hood Archery, Incorporated, Dept. BA, 215 Glenridge Avenue, Montclair, New Jersey 07042.



SIGHT SYSTEM

The Mark 9 has nine interchangeable moulded aiming apertures, a ground glass magnifying lens and black anodized body. The Gold Medal sight has a gold anodized body, nine moulded aiming apertures and an unattached bubble level. The aiming apertures come in three different designs and colors. An aperture accessory kit also is available without the sight body.

The Mark 9 sells for \$19.95, the Gold Medal for \$9.95 and the kit for \$3.95. From the Beaumont Design Group, Dept. BA, 1400 Monterey Pass Road, Monterey Park, California.



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Wearing it as you do a wristwatch, the Wristscope has a field of view of 210 feet at five hundred yards. It is smaller than a cigaret package and weighs 3½ ounces. The precision-ground eyepiece focuses from ten feet to infinity. It is coated to counteract glare and reflection and sells for \$17.50 from Ranging, Incorporated, Dept. GW, Rochester, New York 14625.

Continued on page 72

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BOW BITS

Continued from page 71



SCENT PAD

The No. 5000 quiver has a scent pad on the backside to prevent buck scent from transferring to the hunter's clothes. It is adjustable to fit all bows and holds four arrows. The camouflage green quiver has a rubber shield for protecting broadheads. It is available for \$8 from Kolpin Manufacturing, Incorporated, Dept. BA, Box 231, Berlin, Wisconsin 54923.



MIDDLE PRICE

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Hunting and tournament stabilizers are offered as an accessory item at lists of \$8.95 and \$9.95. The handle section is supplied with a leather arrow plate and mohair rest.

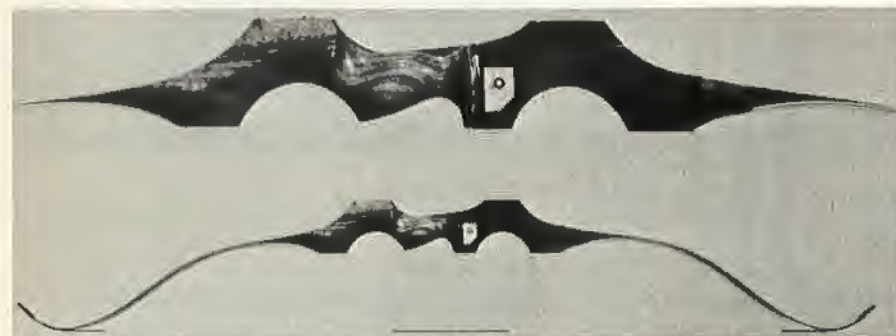
The laminated limb bow sells for \$49.95 from Darton, Incorporated, Dept. BA, 3261 Flushing Road, Flint, Michigan 48504.



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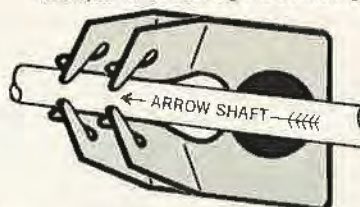
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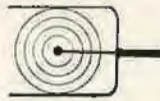
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Down Argentina Way



Shooting at the national are (from left) Roberto Rocca, club champion Bracco and Victor Hernida. Rocca was hit in the forehead by an umbrella that was released in the high wind, but returned from hospital to finish round.

Argentina just held its first National Archery Tournament, which traces its paternity back three years, when some members of the Big Game Hunting Federation became fascinated with the idea of using the bow for hunting and formed a club both for hunting and competitive sport.

According to Alva Rubini, our prolific correspondent from Buenos Aires, there are two hundred members, although only a small percentage are active or regular archers. Few of the archers have imported equipment; most use locally made bows and wooden arrows.

This year, three other clubs were formed, joining the Asociacion Argentina de Arqueria, making four clubs in Buenos Aires, plus several in the interior. Many of them are combined with the Tiro Federal — the Federation of Arms — because of the lack of appropriate grounds for archers.

Mrs. Rubini says, "Our main problems are the lack of equipment and professional trainers. We have all had to learn the hard way — that is to get any bow and arrows we are able to, and feel our way to improved shooting."

"Francisco Masciotra has, up to now, been the only bowyer. His bows are excellent, but are only for bowhunters. As a result, most of us are shooting barebow. Carlos Bracco, our champion archer, is also making bows with the idea of doing everything possible for the freestyle archer, but it will take time for his bows to be on the market.

"Our arrows are of wood and generally homemade. They are neither very straight or selected into sets! A few archers have been able to get beautiful bows from the USA and England and some Easton arrows. We are not able to import directly, as yet, as we have to pay a two-hundred percent tax on the actual value of the items coming through customs!"

In tournaments they use the FITA, American round, clont, Tiro al Disco (a thirty-centimeter disc which is thrown into the air and shot at by archers individually), the Buenos Aires round, which is six ends of three arrows each shot at a FITA style target ranging from fifteen to forty-five meters and a field round. ←

TACKLE TIPS

Continued from page 14

Put an arrow in your new clamp block and hold it in a vise. Using the candle method, heat and remove the tip. The steel point and a little strengthening tube of aluminum into which the point is pressed will slide gracefully out of the arrow shaft with the assistance of pliers.

The idea now is to fill each of the little tubes with the same amount of some material such as epoxy. I used a solder substitute called Duratite Formula 32 (purchased in a local store) which sets in a short time without heat. Then, after reinstalling the points, I checked the balance point of each shaft. The operation had moved the balance point seven-eighths inches forward of the normal fulcrum point. Some were a bit short of this mark due to entrapped air in the little tube. I removed and repacked these points. You might try a self-leveling material such as casting epoxy.

The result? I think line improved a bit. Grouping at forty-five yards before sight change was at 4 o'clock by two or three inches — to the right because a heavier head has a lightening effect on spine, a bit low due to heavier nose. Heavy points are considered better in the wind, but with the compound bow, which is most efficient with the lightest arrow you can use, standard points are recommended.

POINTED POINTS — What? You didn't read this article twice! Too bad, now you'll have to remove the points from your arrows again, because here's something you should have done while the points were out for weighting — sharpen those target points to cut down on bounce-outs.



In the accompanying text, Loiselle describes his method for restoring your target points.

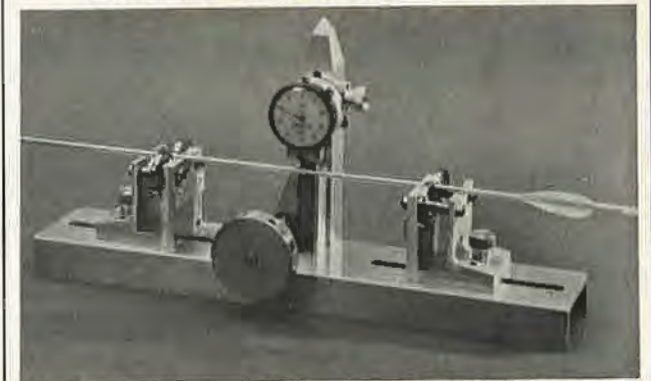
No doubt a few of your points have met with something harder than straw. Even the good guy sometimes hits the banding wire on a bale or someone's field point embedded in the straw. I find this the best way to get a truly centered sharp point on a dull tip. Centering is important if you check arrow straightness by spinning on the point.

Chuck the little tube of the point assembly in a hand drill. Set a stop on the grinder to contact the tube close behind the steel point. This will help maintain angle and avoid run-out. With the grinder operating, hold the point against the stop and against the wheel at the proper angle, and turn the handle of the egg beater while the sparks fly.

You can do the job on fully-assembled arrows using the same set-up less the hand drill by rotating the shaft with your fingers. Do not grind away so much metal that you alter the arrow weight or balance point.

Incidentally, if you have any bright ideas concerning equipment which you would care to pass on to fellow archers, I would be happy to receive a note at 361 Cambridge Street, Burlington, Massachusetts 01803. ←

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MOTIVATION MYSTERY

Continued from page 38

Two generations of archery enthusiasts are represented by the Cliftons, with son, Johnny; and their daughter, Jennifer. Ever-increasing trend toward outdoor and recreational activities is reflected in the growing number of family groups participating now in archery.



Diminutive Jennifer Clifton seems totally serious as she nocks blunt arrow on her own scaled-down bow.



save two or three hours of shooting. (This was done at Ludlow, Massachusetts, at the NFAA National last year and proved shooting time could be cut almost by half.)

Archery is so bogged down with obsolete customs and old-fashioned narrow-minded thinking that it will take a miracle to make the changes necessary to promote it. The extremely popular new idea of shooting the first two targets for practice and then start scoring on the third, is ruled out more often than it is permitted.

Good coaching is a great motivator, and the most important element of good coaching is to instill confidence in the shooter. If a coach can manage to do this, that shooter can whip tournament pressures and will continue to strive for the top spot.

The author has seen a lot of potentially good shooters ruined by getting the big head. They win one two-bit tournament and there is not a hat in Texas big enough to fit. They disown their coach; they hand out advice, and usually fall flat on their face at their next big shoot. It takes at least a half dozen big wins before a shooter has a claim to fame.

By the same token, there are a good number of shooters who will never make it, because they shoot in their backyard until they feel they are ready for competition. The only way to learn tournament shooting is by shooting in tournaments, win or lose.

We do need a change of game. Smaller scoring areas or longer distances for the experts, hit or miss knock-down targets to eliminate ricochet shots and liners impossible to call. Knock-down targets so that a spectator has something which gives him an idea of what is happening. Even the shooter would like to know whether he hit or missed. All these innovations would add motivation for the archers.

The author asked himself the question, "Why have I been shooting for over fifty years?" Frankly speaking, I haven't the slightest idea, but I guess I like to try to win. ←

KITTREDGE

Continued from page 9

the monster you want, and as fast as you can, you gasp and puff yourself to the saddle high on top of the zero cold snowy ridge, only to find the dogs are off chasing a pair of cougar kittens with tracks the size of a quarter. Disappointment is wiped out instantly, however, the moment you see them cuddled high on the limb above you. The neatest looking little miniature mountain lions! With feisty tempers, snarling. . . and not just two, but three. What pictures we got that day. Shot the day for sacking up that trophy we were after, but just how could a hunter spend a better day — really?

Years ago I was introduced to hunting behind a pack of dogs by a bowhunting friend of mine who had four trained Beagles. We hunted rabbits along the creek bottoms outside of Bakersfield, California. We educated the rabbit population without doing them undue harm, though I must say, we didn't fail to garner up a rabbit dinner or two, either. But I became hooked, and like most bitten by the hunting bug, had less and less chance for recovery as time went on. I chased jaguar in Mexico. Tried a cougar or two. Met a guy with a trained deer hound that would dive into the thickest brush and drive big bucks right up to within spitting distance, much as a sheep dog runs back a stray. Went after bobcat in the wintertime and bear in the spring. Anytime a chance came to hunt with dogs, I was more than ready. My space and lack of time prevented owning my own pack, so I had to rely on those who make their living guiding hunters who want to hunt behind dogs. As with all forms of guiding, there are good ones and bad ones. And there are good dogs and bad ones as well. It is always wise to check references of previous hunters before booking any hound hunt . . . seeing just how well pleased another hunter was can ward off disappointment with your hunt.

I like to learn how the prospective guide hunts. . . on foot, following roads, in a truck? What sort of terrain is hunted. . . with logging roads, no roads, steep, brushy, rainy? Though I've hunted from horses, followed out ridges with vehicles, struck out cross-country on foot, I prefer to hunt where your legs must do the work. . . sort of like back-packing in, rather than going by pack animal or camper truck. It doesn't mean the hunt is any less enjoyable or sportsman-like, just that every man must pick his type of poison.

Speaking of poison. This every man to his decision is why I don't really understand the recent policy change of the Pope & Young Club limiting those trophies which can be entered towards Regular or Senior membership to only one entry which has been taken with the aid of dogs. Yet they will accept without limitation those which may have been taken by other methods of aiding the hunter, such as hunting from a blind while watching the game feeding unsuspecting on a fresh-killed bait, or while waiting concealed in a tree while the game walks along a feed trail, or by luring in the game with a call during the heat of the rut. All are methods of hunting acknowledged over the years as a means of fair chase. It is understood that not every method has appeal to every man, any more than the use of sights or compound bows appeals to all. Some ways of doing things have appeal to one person, while others appeal to someone else. Why should some hunters then hold up their noses to their fellow bowhunter and his form of sport? Doesn't make much sense to me.

Regardless of the feelings of a few, if you are looking for some real fast-moving hunting excitement, would like to make the chase the thing, want to bag some game difficult to get by any other means, than take a crack at hunting behind the bawling of a pack of hunting dogs. ←

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TECH TALK

Continued from page 16

shaft. I prefer the uniform qualities of a fiberglass shaft, but a fellow bowman told me that the fiberglass ones lack sufficient mass behind the broadhead to penetrate a shoulder bone. On a past deer hunt, a fellow hunter hit a deer in the shoulder, and it simply turned, pulled the arrow from its shoulder and trotted off.

David M. Aumock,
Kincheloe AFB, Michigan

(Hunting Editor Doug Kittredge feels that for the type of game you're after — specifically the moose and bear — a hunting bow of at least fifty-five pounds is preferable, and a sixty-pounder even better. Corresponding arrows for these would be 2018s for the fifty-five pounder, and 2020 for the sixty.

(As far as hitting the shoulder, you're not going to have luck with any type. The bone is massive and will resist any penetration.)

FEATHERLESS SHOOTING

I am writing for some information on the bare arrow method of determining the correct arrow spine. By reading Tech Talk, I have picked up some good pointers, but I have never run across a complete article on this method. If you could direct me to such an article or give me a brief run-down on the system, I would greatly appreciate it.

David Greni,
APO San Francisco

(We assume that you are referring to the method of shooting shafts which have no feathers, adjusting spine and bow tuning until the shaft flies straight from your bow and then using fletched arrows accordingly.)

(The normal method is simply to start with the recommended shaft size for your bow weight and draw length combination, shooting it without fletching at close range from the target; ten feet to ten yards. Start with your nocking point about one-eighth of an inch above horizontal, adjusting up or down to correct up or down flight; then adjust the rest in or out to straighten horizontal flight characteristics. A Berger button works well for this sort of tuning, particularly when tuning for broadheads.)

(If that particular shaft cannot be straightened in flight to your satisfaction, try a size stiffer or a size weaker, going through the same procedure.)

SIGHTING HINTS

I have a problem which I am hoping that you can help me resolve. I am new to archery and I would like to start using a bow sight. However, of the many volumes on archery that I

have read, not one has ever given information on how to set the sight for various distances.

Are they pre-set or do I do it myself? If I do it myself, can you either tell me how it's done or recommend a book that gives instructions.

H. E. Logan,
Toledo, Ohio

(You set your bowsight yourself, as each bow and arrow combination tends to differ and your anchor point relative to your eye will not correspond necessarily with another shooter's.)

(Just get back twenty yards exactly and set the sight about where you feel the bow should be held to hit at that distance. Shoot a group of four arrows and reset the sight as needed to adjust for where the arrows struck the target. Shoot again and reset again as needed until you have your arrows grouping in the center of the target. Mark this setting on the setting tape supplied with the sight, or on a piece of adhesive tape placed alongside the sight, marking at a corner of the sight slide. Now move to thirty yards and repeat. Again at forty, fifty and so on, as needed.)

(You will find a great deal of information of interest to you in the Archer's Digest, \$5.95. Also, Dick Young's books, Let's Raise Our Score, \$2.00 and \$3.00 for volumes I and II, are good sources of information. These books are available from Sportsman's Bookshop, Box HH, Capistrano Beach, California 92624.)

SCOUT SCOOP

I recently took up bowhunting. I realize the importance of pre-scouting before season opens, but have some questions. What is the best time for pre-scouting? I have heard that deer alter their habits from the summer months to fall and as a result, may not be where you thought they would be when hunting season rolls around.

How can I determine which are the best trails to watch?

Charles B. Collins,
Elmira, New York

(Hunting Editor Doug Kittredge replies, "The answer to most all the questions you might have can be found in the book, 'Bowhunting For Deer,' by Dutch Wambold. This book is available through Sportsman's Bookshop, Box HH, Capistrano Beach, California 92624.

("The best time to do serious scouting is just before you hunt, about the week prior. Cover a lot of territory to find the area with the best concentration of deer. Try to locate a bedding spot and you'll find the trails they frequent. Discover the times that they use the trails and you'll be in good shape for bagging a buck.")

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LETTERS

Continued from page 10

this individual a mile away. Naturally, he is going to try to sell this individual the shortest, heaviest bow in the shop, which is probably last year's model, if not the kind of bow the dealer dies with.

If the buyer is lucky, he might be able to hit the target at twenty yards five times out of six with the \$3 a half-dozen arrows he's purchased, a shooting glove that is too tight on the fingers and after trying to nock the arrow on a string that doesn't have a nocking point.

What I am trying to determine is how many of our certified dealers actually are willing to set the beginning archer on the right path to a lifetime of fun and enjoyment, with the anticipation of having this man as a lifelong friend and customer.

Dennis Merriman,
Fort Dix, New Jersey

(It has been our experience that most mismatches of buyer and equipment are the result of ignorance on the part of the salesman rather than malice. Too many sporting goods stores have salesmen who will sell the equipment, quoting the goodies from the catalog, but actually have never shot an arrow. Choosing the dealer is important.)

HOWARD POWER

Jack Howard's article, "Elk's Parade," was topnotch. I have followed his articles over the years and he really knows his hunting. As Elgin Gates is to riflemen and sheep hunting, Mr. Howard ranks among the top bowmen in elk hunting.

I certainly would appreciate reading more of his writing in your magazine.

John W. Redmond,
Baltimore, Maryland

(We also would like to read more of Jack Howard's material, but between hunting, getting ready to hunt and making bows so that he can afford to do both of the first, he doesn't have all that much time to lollygag over a typewriter. But we plan on talking him into doing more in the coming year.)

BOWHUNTERS CALL

Would you please run the following request in your next issue:

In an attempt to organize and combat current criticisms against hunting and bowhunting in particular, please send all anti-hunting articles to:

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(Dr. Shubert, for those who wonder, is a member of the National Field Archery Association's Bowhunting and Conservation Committee.)

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AMO STANDARDS
Continued from page 61

had his own method of measuring the length of a bow; a practice which caused enormous confusion among archers when it became necessary to buy a new bowstring. Invariably, when the purchaser got home and attempted to string his bow, he would find that the string was too short or too long and didn't provide the proper string (brace) height.

It was to solve this inherent problem and standardize bow and string lengths that the AMO Standards Committee developed a systematic method of measuring bow lengths. As a result, the length of all bows manufactured to AMO standards are designed to have the proper string height when braced with a standard one-sixteenth-inch diameter steel cable. To accomplish this end, the cable must be exactly three inches less than the marked length of the bow. For example, the cable for a sixty-six-inch bow is sixty-three inches long.

Naturally, measurement of the steel cable's length must be precisely determined; and that is exactly what the AMO does. First, they place the 1/4-inch loops on each end of the cable over one-quarter-inch pins and then stretch the cable with a 100-pound load. The cable, while still under this 100-pound tension, must then measure, from the outside edge of each one-quarter-inch pin, its marked length with a tolerance of only one-sixteenth of an inch.

The AMO makes available to all bow manufacturers a complete set of 25 master cables — one for each bow length from forty-eight inches to seventy-two inches — in one-inch increments. Subtracting the three inches required for proper string height, actual length of the cables are from forty-five to sixty-nine inches.

Now nearly universally used in the bowmaking industry, these standards for bow length have materially improved bow comparison and string fitting. Since most bows made to AMO standard lengths are marked as "AMO Standard" and with the correct bow length, archers are not so apt to find themselves in the field, or on the range, with a busted string hanging from their bow and a useless piece of string in their pocket.

And, just to make sure we're all communicating in the same language, you might want to clip out the illustrations accompanying this article for future reference. Both contain the standard nomenclature as approved by the AMO and recommended by the AAC. ←

BOOKS FOR BOWMEN



FEASTING FREE ON WILD EDIBLES by Bradford Angier; Stackpole Books; \$4.95; 285 pp with illustrations. A well known authority on outdoor living, Bradford Angier once again has come up with a book that should be in the personal library of anyone who enjoys the outdoors. A one-volume edition of his earlier works, "Free For The Eating" and "More Free-For-The-Eating Wild Foods," this latest volume contains more than five hundred ways to banquet on nature's bounty.

Beginning with a quick reference directory of wild edibles indigenous to North America, Angier takes the reader through nature's own supermarket, pointing out not only delicious wild edibles, but those plants that should be avoided. He includes tips on how to recognize the edibles, as well as tells the reader where they can be found and how to prepare them after finding them.

There are tasty recipes for preparing everything from flapjacks and currant jam to fruit cordials and nutty hors d'oeuvres. It even has sections on various medicinal preparations that can be made from common wild plants.

The advice he offers is practical whether you find yourself lost in the wilderness and your survival depends on living off the land, or whether you are merely interested in livening up your everyday mealtime fare.

Angier's basic premise is that some of the world's best foods are free and anyone reading this volume will become a believer. — AST

(Available from Sportsman's Bookshop, Box HH, Capistrano Beach, CA 92624)

BUCK BUST'N
Continued from page 68

couple more steps, I was standing amidst his tracks which led up onto the adjacent hillside. Walking back and forth, I carefully scanned the hill looking for my runaway quarterback. He was not to be found. A couple of well placed rocks into some bushes produced nothing. "Well so much for today. You had your chance," I thought to myself. I headed back across the flat when, for some unexplainable reason, I got the feeling that something was looking at me.

I turned back for one last look. There he was! And here I was, right in the middle of a flat with no concealment at all. After moments of nervous prostration, I decided to try and walk slowly towards the base of the hill. I had a twenty-yard walk ahead of me. I was hoping for curiosity to kill the buck. With one of my bright fluorescent arrows nocked, I felt as if I were about to launch a Roman candle.

I made it to the base of the hill and forty-five yards away was my second shot of the day. It would be an uphill shot at about a forty-five-degree angle. Just like the stump-shoot shot I had practiced once before. All I had to aim at was an eight-inch opening amongst some trees and bushes. Not a gravy shot by any means. A well-placed shot would mean certain death, since all vital areas were behind this opening.

I came to full draw. I felt calm and took lots of time. Only a beautiful release was required now. I concentrated and let fly. Instantly came that beautiful sound all bowhunters like to hear as a 29 1/2-inch arrow enters the chest cavity.

Approximately seven seconds later and twenty yards away the buck fell dead. Examination of the deer showed that the arrow entered the neck, slicing the jugular vein in two and lodged in the rib cage about two-thirds the way back. Enroute, the shaft had skewered the heart and left lung.

Beaming with joy, I prepared to field dress the deer. Now the packout remained. I remembered Ranger Mike. Should I or shouldn't I? I didn't have the heart to go through with it. One thing for sure, Mike was going to validate my tag. I didn't like his idea of only hearing about bow-killed deer.

Upon return to the station, Mike just couldn't believe it. I think he felt honored to validate the tag, but seemed disappointed I didn't call on him for the packout job. I reassured him the next time for sure, he could carry it out. Only this time it was going to be bigger and heavier. ←

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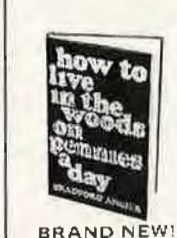
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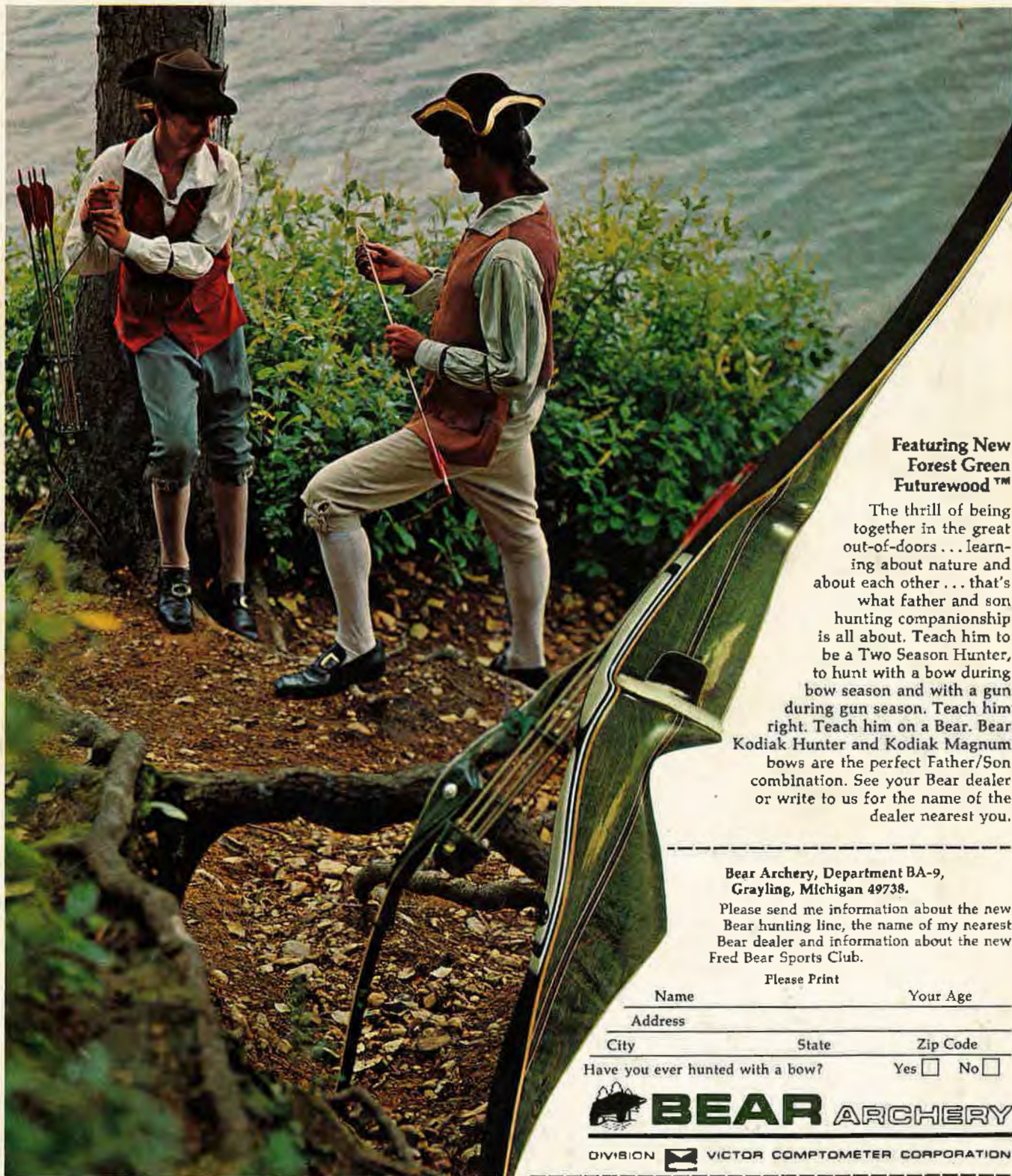
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