



PRICE LIST · CATALOGUE

L · E · STEMMLER · BOWYER · FLETCHER · QUEENS VILLAGE · L I · N Y

FOREWORD

An accidental discovery by one of our caveman ancestors probably started archery in prehistoric times. For many thousands of years the bow and arrow was indispensable as a weapon and larder furnisher.

Every nation used the bow and arrows, and, as time progressed, developed its own type of tackle. During medieval times the backbone of the English armies were the archers. Wise kings, who realized the potency of these weapons, enacted laws so that their people had to practice shooting at long ranges on holidays and feast days. The result was that the English Yeoman with his six foot long bow and heavy, broad-headed war arrows was held in fearsome respect by the soldiery of Europe.

It is a matter of but a few decades since the bow and arrow was used very effectively against gun powder by the Chinese. There are still many primitive tribes that rely on their bows and arrows to supply them with game and fish. Using history as a measuring stick, it is only yesterday that the gun superseded bows and arrows.

As a sport it enjoyed an unusual revival in the United States during the 1870's and '80's. We grin a bit when we see old daguerreotypes of men in derbies, odd coats and peculiar trousers alongside of women in hoop skirts lined up in tournament array. Then, archery was a sport of the élite, now it is for everybody.

Our company may be regarded as the link between this revival and the present growth of interest in the sport.

Mr. William Stemmler, father of the present owner, made self and backed bows for the old Staten Island Archery Club and the Brooklyn Bowmen as far back as 1875. He was a survivor of the old revival and continued to love and use the bow until his death. L. E. Stemmler inherited the skill and enthusiasm which distinguished his father and, in 1912, organized the business under his name.

During the past fifteen years, individual archers and small groups, scattered all over the country, have enjoyed target shooting, roving, archery golf, and hunting. The National and Eastern Archery Associations are now flourishing and conduct annual tournaments. There is no section in the country but that holds a tournament each week-end within automobile distance of its enthusiasts.

The interest of Boy Scouts, Girl Scouts, Y.M.C.A., the camp movement and educational centers will insure the continued growth of the sport.

Archery is one of the few sports that permits active participation by old and young, while deep in every one is the instinct to pull a strong bow and watch the keen shaft fly. Archery is enshrined in the romantic tales of Robin Hood and of the days when Knighthood was in Flower. Stories of our own great West, of the covered wagon and of the Indian's prowess with the bow and arrow lent glamour and adventure to our childhood and will impart it to the youth of tomorrow.

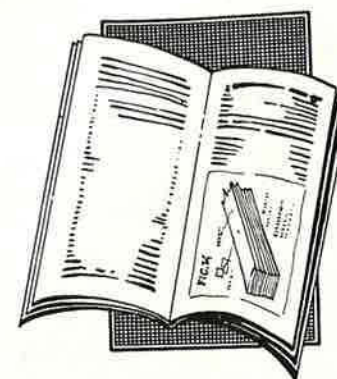
Hunting laws, specifically mentioning bows and arrows, indicate how widely they are used for taking game. Many states have set aside forest preserves where hunting is permitted only with bows and arrows. The archer's implements are the true weapons of the real woodcrafter and conservationist. Deer and all manner of small game are constantly being taken by the archer. It is indeed a proud moment when you get your game with the bow and arrow. You know the quarry had every chance, and it was your own skill and strength of arm that won.

It has always been our aim to furnish good tackle and raw materials at low prices, so that more and more people may enjoy a grand sport and be agreeably surprised at the reasonable cost of equipment. By inventing many new gadgets and utilizing modern machinery, our product is constantly being improved and costs are lowered. Machinery for rounding shafts, cutting feathers, knurling on heads, making nocks and footings, etc.; improvements in various processes; new materials for targets, faces, and accessories; and large purchases of raw materials, are a few of the reasons for the most attractive and economical tackle offered.

We submit the following catalog with the satisfaction that what we offer is good—the result of years of experience—and that every piece is the work of an archer-craftsman who possesses the critical judgment of the former and the pride of the latter.

L. E. Stemmler

THE ESSENTIALS OF ARCHERY



An Archer should also be a Craftsman. He should, at least, be able to make minor repairs to his gear. We strongly recommend that everyone seriously intending to make Archery his hobby, learn to make his own bows, arrows and accessories. There is genuine satisfaction in making your own tackle. To see a shaft made by your own hand, speed from a bow fashioned on your own work bench, gives you a sound, honest bit of happiness. In order to be of greater service to those who wish to make their own tackle, we have written "THE ESSENTIALS OF ARCHERY" ("How to Use and Make Bows and Arrows"). This new handbook contains over ninety

pages (6" x 9") of concise, practical, usable knowledge. Eight large photographs illustrate Bracing or Stringing a Bow, How to Shoot and Aim. A full page cut explains "Point of Aim" shooting. Tables of measurements of finished bows of Lemonwood, Osage Orange (Bois d'arc), and Yew are given. Eleven full page plates show accessories, and picture, step by step, making Long Bows (plain ended, horn tipped, rawhide backed, self and joined yew and osage orange), Flat Bows, Reflexed Bows, Strings, Self and Footed Arrows. General information, a section on archery for clubs and camps, various archery rounds, tournament conduct, and a glossary of the language of the sport are present. For individuals who wish to make tackle, manual training teachers, boys' work secretaries, scout leaders, camp directors, etc., "THE ESSENTIALS OF ARCHERY" will prove of great value. Single copies are \$.50 each; in dozen lots they are \$3.00 per dozen. If you order a dollar's worth or more "THE ESSENTIALS OF ARCHERY" will be included for \$.25 additional.

EQUIPMENT

One who shoots the bow and arrow is called an Archer. His equipment or tackle consists of:

THE BOW

Nine tenths of all moderately priced, good bows are made of LEMONWOOD. For the beginner a LEMONWOOD Bow is recommended. The Standard Long Bow is good to start with, but the Flat, Semi-Indian type Bow is becoming popular too. Later, you may want a fine osage weapon. Men and grown boys take a 6'0" Long Bow. If you choose a Flat Bow, 5'6" to 5'8" is the proper length. Your bow should not be too strong. You should be able to pull and loose it without too much effort. Thirty-five to forty-five pounds pulling weight is sufficient. Grown girls and women take a 5'6" Long Bow or 5'3" Flat Bow. Weights (pull in pounds) of twenty to thirty-five pounds are enough. Juveniles take bows the same height as themselves, and with pulls of fifteen to twenty-five pounds.

THE ARROW

Modestly priced arrows are recommended for beginners. Arrows are perishable, and while learning, it is best to use and abuse a low priced set. After you become more proficient, better, straighter arrows of imported Norway Pine or Port Orford Cedar are necessary. Footed Tournament Arrows are for the more advanced target shot. The arrows of the Field Archer or Rover are usually fletched with long, low, triangular turkey wing feathers and the heads are heavy steel piles or rounded roving heads. The Hunter's arrows, too, have long, low, rakish feathers and his shafts are headed with keen bladed hunting heads.

THE ARM GUARD

It is a heavy leather guard for the left wrist and covers the inside of the left arm from the hand almost to the elbow. Its use is to protect the left wrist and forearm from the bow string's strike after the arrow is shot. A good Armguard is a very essential part of an archer's tackle.

FINGER GUARDS

They are also very necessary. They protect the first three fingers of the right hand—the shooting fingers. Constant friction with the bow string causes soreness unless they are protected by a glove, padded on the first three fingers, semi-gloves or "tabs."

THE QUIVER

A receptacle for conveniently carrying arrows. It is a long, narrow bag, in which arrows are placed. It has a belt for the waist, or a shoulder harness when worn on the back.

THE TARGET

Archery targets, with the standard target rings of gold, red, blue, black and white come in various sizes—24", 30", 36" and 48". The scoring, beginning with the gold or center counts 9, 7, 5, 3 and 1. The tournament size is 48". We make two kinds of targets; the regulation hand wound rye straw targets, and those made of rye straw covered with burlap.

THE TASSEL

It is a worsted or woolen tassel and is used to wipe arrows clean when soiled or muddied after a shot. It is hung at the belt.

BOW STAVES

LEMONWOOD

is a tropical hardwood. It is close grained, heavy, tough and springy. Its color, from which it gets its name, is light yellow or lemon color. It is one of the three best Bow Woods, and the fact that the highest score ever made in tournament for the American Round, was made with a Lemonwood Bow, speaks well for its qualities.

LONG BOW STAVES

are for making the "Long Bow"; which, as its name indicates, is a long bow. A six foot bow may be only one inch at the widest part and taper to as little as three eighths inches at the nocks. The cross section of the finished bow is an arch, slightly wider than high.

FLAT BOW STAVES

are wider and shorter than Long Bow Staves. They usually are one and a half inches at the widest part. The cross section of a finished flat bow is wide and flat. Because Lemonwood is so straight grained, square bow staves for long bows and flat staves for flat bows may be sawn from the spars. Every possible precaution is taken to insure your getting good wood. No stave is sent out from which a good bow cannot be made, but as the maker is largely responsible for the finished bow, results are not guaranteed.

ROUGHED OUT OR SEMI-FINISHED STAVES

Staves are roughed out on a planer or with a hand draw knife to the approximate dimensions of the finished bow. All the preliminary work is done and finishing your bow is an easier and simpler task. During this process, any stave that develops a flaw is rejected, so that when you buy a roughed out stave you are sure of getting an excellent piece of wood.

BACKED BOW STAVES

We ordinarily back our staves with Clarified Rawhide—a tough, transparent, parchment-like skin. This dries to a hard, horn-like layer of protection on the back of the bow. You may have your stave backed with Black,

Red or White Fibre, instead of rawhide, if you wish. These colored backs polish to a beautiful lustre and add beauty and finish to your bow.

BLUE RIBBON CERTIFIED LEMONWOOD BOW STAVES

are the best that Nature grows. They have been selected very carefully, and are from mountain grown logs. It is only in the uplands that soil and climate combine to produce the finest Lemonwood. No lowland timber goes into these staves. Seasoning conditions are carefully regulated. The result of this care and special attention, from the spar to the stave, is wood of exceptional quality. If you want the best in Lemonwood Bow Staves, BLUE RIBBON CERTIFIED LEMONWOOD BOW STAVES will meet your requirements.

ROYAL PURPLE PROCESSED LEMONWOOD BOW STAVES

For several years we have been experimenting with Lemonwood in order to improve it. We wanted it to make weapons that shot harder and faster, that looked more beautiful and that lasted longer. We feel confident we have attained this result with our Royal Purple Staves. These staves are selected, roughed out and processed in a chemical bath. During the processing the staves turn a rich purple color, and, when worked up, the back of the bow is a beautiful, rich, wine shade. The belly will be streaked or mottled.

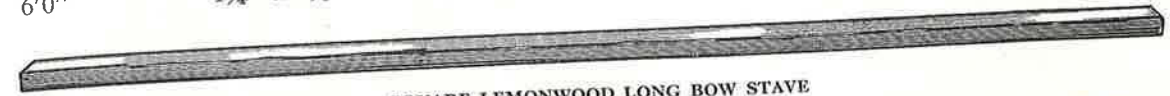
FACED LEMONWOOD BOW STAVES

"Facing" a bow is a new technique in the art of bow making. It has long been known that a laminated bow shoots harder than a bow of a single piece of wood. We take Blue Ribbon Lemonwood staves and tiller them so they bend properly, as they should in the finished bow. Then we apply a strip of Royal Purple Lemonwood, Acana or Golden Osage to the belly side of the stave. These woods are noted for cast. Instead of using glue, the laminating is done with a PLASTIC, a new, scientific way of joining woods, and the result is an exceedingly strong, water-proof joint that will not let go.

LEMONWOOD LONG BOW STAVES

REGULATION LEMONWOOD STAVES FOR LONG BOWS

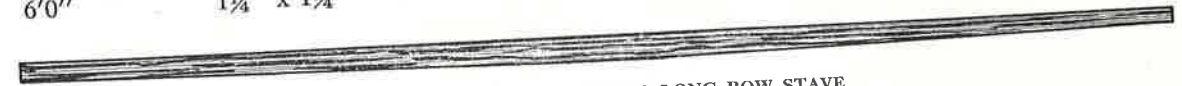
Length	Size	"Not Backed"		"Rawhide Backed"		Shipping Weight
		Square	Roughed Out	Square	Roughed Out	
5'0"	7/8" x 7/8"	.75	.90	\$1.40	\$1.50	2 lbs.
5'6"	1" x 1"	1.00	1.15	1.60	1.75	3 lbs.
6'0"	1 1/8" x 1 1/8"	1.20	1.45	1.90	2.15	4 lbs.
6'0"	1 1/4" x 1 1/4"	1.50	1.75	2.00	2.25	4 lbs.



SQUARE LEMONWOOD LONG BOW STAVE

BLUE RIBBON CERTIFIED LEMONWOOD BOW STAVES FOR LONG BOWS

Length	Size	"Not Backed"		"Rawhide Backed"		Shipping Weight
		Square	Roughed Out	Square	Roughed Out	
5'0"	7/8" x 7/8"	\$1.00	\$1.25	\$1.75	\$2.00	2 lbs.
5'6"	1" x 1"	1.50	1.75	2.25	2.50	3 lbs.
6'0"	1 1/8" x 1 1/8"	1.75	2.00	2.50	2.75	4 lbs.
6'0"	1 1/4" x 1 1/4"	2.25	2.50	3.00	3.25	4 lbs.



ROUGHED OUT LEMONWOOD LONG BOW STAVE

ROYAL PURPLE PROCESSED LEMONWOOD BOW STAVES

Length	Semi-Finished Plain Staves	Rawhide Backed Semi-Finished Staves	Shipping Weight
6'0"	\$3.00 Each	\$3.75 Each	3 lbs.

For Long Bows. 6'0"

Royal Purple Lemonwood Long Bow Staves are Semi-Finished or Roughed Out.

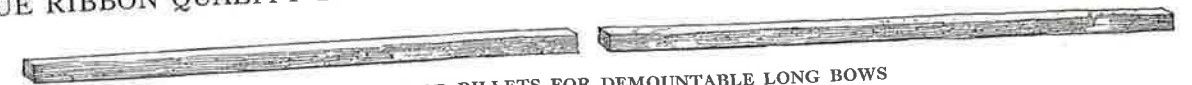
"FACED" LEMONWOOD LONG BOW STAVES

Lengths	Semi-Finished Self Staves	Rawhide-Backed Semi-Finished Staves	Shipping Weight
5'6" and 6'0"	\$4.50 Each	\$5.50 Each	3 lbs.

These long bow staves are practically finished. They bend properly and are brought to weight or pull desired. Staves for plain ended bows have the notches cut; those for tipped bows are shouldered for horns. (Note: If, instead of rawhide, you wish your stave backed with red, black or white fibre, please specify on your order. Specify choice of "FACING" — Royal Purple Lemonwood, Acana or Golden Osage.)

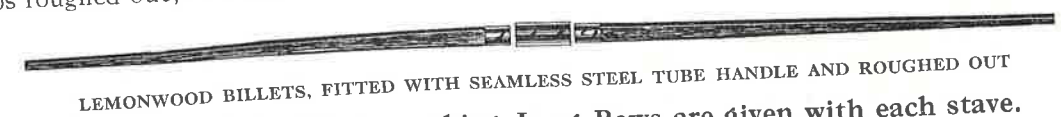
LEMONWOOD BILLETS FOR DEMOUNTABLE BOWS

	Per Pair	Shipping Weight
3'6" Lemonwood billets, 1 1/8" square, suitable for joining in a demountable steel tube handle.	\$1.00	4 lbs.
BLUE RIBBON QUALITY Billets.	1.50	4 lbs.



LEMONWOOD BILLETS FOR DEMOUNTABLE LONG BOWS

Lemonwood billets, 1 1/8" square, fitted with seamless steel tube handle and bow limbs roughed out; for either 5'6" or 6'0" Bows.	\$2.75	4 lbs.
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LEMONWOOD BILLETS, FITTED WITH SEAMLESS STEEL TUBE HANDLE AND ROUGHED OUT

ILLUSTRATED INSTRUCTIONS for making Long Bows are given with each stave.

FLAT LEMONWOOD BOW STAVES

FLAT LEMONWOOD BOW STAVES

Length	Size	"Not Backed"		"Rawhide Backed"		Shipping Weight
		Flats	Semi-Finished	Flats	Semi-Finished	
5'0"	1½" x ⅝"	\$1.00	\$1.25	\$1.75	\$2.00	3 lbs.
5'3"	1½" x ⅝"	1.25	1.50	2.00	2.25	3 lbs.
5'6" to 6'0"	1½" x ⅝"	1.50	1.75	2.25	2.50	3 lbs.

These staves have the handle inlay or riser already joined in place with a PLASTIC, and are band-sawn for handle shape as illustrated.

Plain flat stave, 6' x 1½" x ⅝" or 6' x 1½" x ¾" (no handle riser or shaping) \$1.25 each



FLAT LEMONWOOD BOW STAVE — Side View



Shaped handle of Flat Bow

BLUE RIBBON CERTIFIED FLAT LEMONWOOD BOW STAVES

5'6" to 6'0"	1½" x ¾"	\$2.00	\$2.25	\$2.75	\$3.00	3 lbs.
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Blue Ribbon Flat Staves have the inlay or handle riser joined in place with PLASTIC and are band-sawn to shape. The inlays are fancy imported woods so that a beautiful color contrast results.

Plain flat stave 6' x 1½" x ¾" (no handle riser or shaping) \$1.75 each



FLAT LEMONWOOD BOW STAVE — Roughed Out — Front View

ROYAL PURPLE PROCESSED FLAT LEMONWOOD BOW STAVES

Length	Semi-Finished Self Staves	Semi-Finished Rawhide Backed Staves	Shipping Weight
5'6" to 6'0"	\$3.25 Each	\$3.75 Each	3 lbs.

Royal Purple Processed Flat Lemonwood Bow Staves are Roughed Out to the approximate dimensions of the finished bow. Practically all preliminary work is done, and finishing your bow is an easier and simpler task. They have the handle inlay or riser joined in place with a PLASTIC and are band-sawn for handle shape. Backed Bow Staves are backed with clarified rawhide—a tough, transparent, parchment-like skin.

(Note: All handle risers on flat staves are joined with a PLASTIC, which makes an exceptionally strong, waterproof job.)

"FACED," FLAT LIMBED, LEMONWOOD BOW STAVES

These laminated staves are tillered, the notches are cut and the handle riser is shaped. All that is necessary to finish them into beautiful Flat Bows is to scrape, sandpaper, varnish or lacquer, and put on the handle and string. All laminating is done with a PLASTIC.

Length	Description	Semi-Finished Plain Staves	Semi-Finished Black Fibre Backed Staves	Shipping Weight
5'8"	Royal Purple on Lemonwood	\$3.75 Each	\$4.50 Each	3 lbs.
5'8"	Acana on Lemonwood	4.25 Each	5.00 Each	3 lbs.
5'8"	Golden Osage on Lemonwood	4.25 Each	5.00 Each	3 lbs.

(Staves will make Flat Bows of from 25 to 50 pounds pull. Please give weight you wish.)

Royal Purple—A rich, wine purple, mottled and streaked with buff.
Acana—Rich, reddish brown.
Golden Osage—Beautiful golden yellow; shades of orange.

ILLUSTRATED INSTRUCTIONS for making Flat Bows go with each stave.

OSAGE ORANGE BOW STAVES

OSAGE ORANGE is America's gift to archers. It is a golden yellow hardwood that darkens to rich brown. It makes hard shooting, tough, sturdy bows that will stand lots of abuse. Osage is a favorite for Hunting and Roving Bows, and, in many opinions, it is the best all around bow wood. Osage Orange is also known as Bois d'arc (Bodark) and was much used by the Indians in the South and Middle West. The early French explorers gave it its name. Because of its knottiness, there is more Osage available for short staves or billets. It is the safest wood for very heavy tackle—bows of sixty pounds pull or more. OSAGE ORANGE STAVES for Long Bows are roughly 1½" wide, and will make bows with pulls up to 75 pounds.

FLAT OSAGE STAVES are 1½" to 2" wide with plenty of wood for the heaviest tackle. BILLETS are approximately 1½" wide and are intended for splicing under the handle. BACKED STAVES are backed with Clarified Rawhide or Hickory. ROUGHED OUT or SEMI-FINISHED STAVES are hand worked to the approximate shape of the bow and finishing is simplified and made easier. OSAGE STAVES are not straight. Since they are cut right from the log, all peculiarities of the growing tree appear, and whatever dips or risers appear are followed so the grain may run from tip to tip. Every stave we send out will make a beautiful bow, but no exchanges or claims of any kind will be allowed if work has been done on them.



OSAGE ORANGE, LONG BOW STAVE

OSAGE ORANGE BOW STAVES FOR LONG BOWS

Lengths	Not Backed	Rawhide Backed	Hickory Backed	Semi-Finished Plain Staves	Rawhide Backed Semi-Finished	Hickory Backed Semi-Finished	Shipping Weight
5'3" to 5'8"	\$5.00	\$6.00	\$7.00	\$6.00	\$7.00	\$7.50 Each	7 lbs.



FLAT OSAGE ORANGE BOW STAVE—Side View

FLAT OSAGE ORANGE BOW STAVES

Lengths	Not Backed	Rawhide Backed	Hickory Backed	Semi-Finished Plain Staves	Rawhide Backed Semi-Finished	Hickory Backed Semi-Finished	Shipping Weight
5'3" to 5'8"	\$5.00	\$5.75	\$7.00	\$5.75	\$6.75	\$7.50 Each	7 lbs.



OSAGE ORANGE BILLETS

OSAGE ORANGE BILLETS

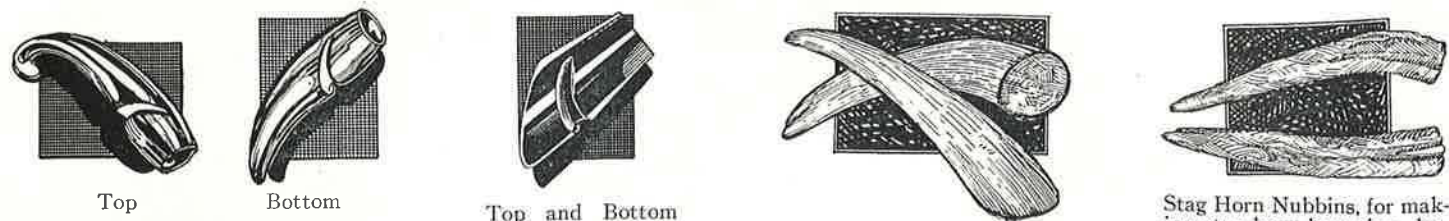
3'6" Lengths. Per Pair \$4.50. Shipping Weight 6 lbs.
5'3" to 5'8" STAVES made from billets spliced and joined with a PLASTIC and roughed out or SEMI-FINISHED. Per Semi-Finished Spliced Stave \$6.00. Stave backed with Rawhide \$7.00. Stave backed with Hickory \$7.50. Shipping Weight of any spliced stave 6 lbs.
BILLETS, fitted with Seamless Steel Tube Handle, bow limbs SEMI-FINISHED, to make a Demountable Bow, 5'3" to 5'8" long. Per pair \$6.75. Shipping weight 5 lbs.

YEW BOW STAVES

YEW WOOD is relatively soft. The heartwood is reddish brown, and the sapwood is creamy white. This contrast in the finished bow is a great part of its beauty. Yew Staves may come with minor defects, such as small knots, pins, curls or dips. It takes a skilled craftsman to get the most out of yew staves. The same remarks as to size and shape of staves and billets as given for osage apply to yew.

	No. One Grade	No. Two Grade	Shipping Weight
BILLETS, 3'6" lengths, per pair	\$5.00	\$4.00	6 lbs.
Yew Billets, fitted with Seamless Steel Tube Handle, bow limbs roughed out, for either 5'6" or 6'0" Bows	7.75	6.75	4 lbs.
BILLETS, joined to make 6' stave	6.00	5.00	6 lbs.
Yew Staves, 5'6" to 6'0", each	7.00	5.00	6 lbs.
Yew Staves, Roughed Out, each	7.50	6.50	5 lbs.
Yew Staves, Roughed Out and Rawhide Backed, each	9.00	8.00	6 lbs.

BOW MATERIALS



Top
Bottom
Polished Plastic Bow Tips
For 5'0" and 5'6" Bows, 3/8" diameter hole; per pair **\$.50**
For 6'0" Bows, 7/16" diameter hole; per pair **\$.50**

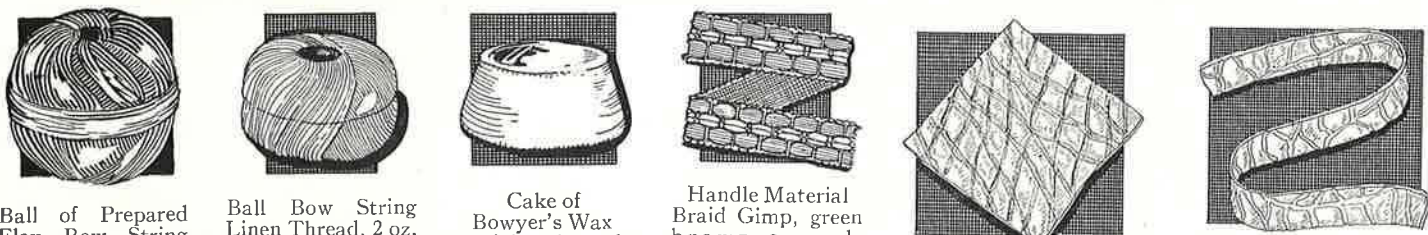
Top and Bottom
Fibre Bow Tips
Straight 3/8" hole for 5'0", 5'6" and 6'0" Bows; per pair **\$.50**

Cow Horn Nubbins, for making horn bow tips, etc.; per pair **\$.20**

Stag Horn Nubbins, for making stag horn bow tips, decorative stag horn buttons, knife handles, etc., per pair **\$.15**

(Shipping weights on bow tips and nubbins 4 oz.)

BOW STRING MATERIAL



Ball of Prepared Flax Bow String Twine, enough for 30 to 40 strings; per ball **\$1.50**
Shipping weight 2 lbs.

Ball Bow String Linen Thread, 2 oz. ball; per ball **\$.60**
3 oz.

Cake of Bowyer's Wax Special Formula, for string making. Large Cake **\$.15**
4 ozs.

Handle Material Braid Gimp, green brown or red. Enough for a handle **\$.15**
2 ozs.

Square of Fancy Leather for handle. Per piece **\$.20**
2 Ozs.

Fancy Leather strip for wrap around handle. Per piece **\$.25**
2 ozs.



Coil of Clarified Calfskin or Fibre for Backing Bows

BACKING FOR BOWS

- Clarified Calfskin sufficient for 6'0" bows 1 1/8" wide, with glue..... **\$.85**
Shipping weight 2 oz.
- Extra wide, 1 3/4" for flat bows, with glue..... **1.00**
Shipping weight 3 oz.
- Fibre Backing, red or black, sufficient for 6' bows, 1 1/8" wide, with glue... **.50**
Shipping weight 2 oz.
- Extra wide for flat bows, 1 3/4" for flat bows, with glue..... **.65**
Shipping weight 3 oz.

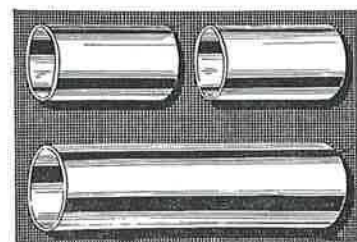


Sinew: Achilles heel tendons. 5" to 10" long. After shredding, it is used to back bows. Two dozen are needed for a 6'0" bow; Per dozen **\$.75**
Shipping weight per dozen 4 ozs.

Hickory—6'0"x1 1/2" wide, 1/4" thick, ground flat, with glue..... **\$.50**
Shipping weight 2 lbs.



Half Pint can of Special Bowyer's glue. Used in making sinew backed bows. It is a cold glue and joins sinew to sinew and sinew to wood. Per can **\$1.50**
Shipping weight 13 ozs.



DEMOUNTABLE STEEL HANDLES

- Set of three pieces of seamless steel tubing, drawn to a perfect fit, for demountable or take-down bows. For 5'6" and 6'0" Bows, set..... **\$1.00**
Shipping Weights 6 oz.
- Extra large for osage, yew and heavy lemonwood bows, set..... **1.50**
Shipping Weights 8 oz.

LAMINATION SLATS FOR REFLEXING BOWS

Ten properly prepared slats of Lemonwood and a contrasting dark hard wood (such as Snakewood) ground absolutely flat..... **\$1.75**
Shipping weight 1 lb.

ARROW MATERIALS

ROUND ARROW SHAFTS:-

Since arrows are intended for different kinds of shooting, it is natural that they are made of woods that fill various needs. Birch is good for beginners' arrows, for field and hunting shafts. It is tough, hard and strong. Our birch is selected in the log; straight grained sections of fine Maine stock are picked and made up to our specifications. They are not to be compared with the ordinary run of the mill product. Birch target, field, roving and hunting arrows, even though they may not be as perfect as fine target arrows made of the soft woods, when fletched with long triangular feathers, whistle straight and true to the mark. Birch may be straightened with the fingers—a distinct advantage. Port Orford Cedar comes from the West Coast and is a fine, light wood with a delightful odor. It makes excellent self and footed arrows. Our Norway Pine (Pinus Sylvestris) is from the forests of Finland where the cold, stern climate makes for slow growth and splendid "spiney" wood. It is the old "red deal" of the English yeoman and there is no finer arrow wood than good Norway Pine. The difference in cost between really fine, straight shafts and others is so little, it pays you in satisfaction and use to get the best.



Round Shafts

Birch	Per Dozen	Port Orford Cedar	Per Dozen	Genuine Imported Norway Pine	Per Dozen	
Selected good grade shafts 5/16" x 30" long.....	\$.35	Selected for quality and straightness, 5/16" x 30" long.....	\$.50	Inspected for grain and straightness 5/16" x 30" long.....	\$.65	
Hand picked for spine and straightness, 5/16" x 30".....	.60	Hand picked for grain, spine and straightness. 5/16" x 30".....	.75	Hand picked for spine, grain and straightness. 11/32" x 30" — Selected for quality and straightness.....	.85	
11/32" x 30" — Selected good grade shafts.....	.65	Shipping weight all shafts—1 lb. per doz., except Birch 3/8" x 30" — 2 lbs. per doz. Target Arrowheads—4 oz. Long tapered heads—8 oz.			3/8" x 30" — Hand picked for the best Hunting Arrows.....	1.00
3/8" x 30" — Selected Hunting Arrow shafts.....	.75					

ROUND FOOTED ARROW SHAFTS Port Orford Cedar, 5/16" x 30"



Four-tailed footing
Four-tailed footing—beautiful purple hardwood, 5/16" x 30" shafts, sanded round. Per dozen..... **\$2.75**

A footed arrow is a target arrow, the shaft of which is made of two pieces. A splice or foot of a hard, durable colored wood is applied to a Port Orford Cedar Shaft.

It beautifies the shaft, gives balance and adds strength and durability.

TARGET ARROWHEADS



Bullet Jacket heads, 5/16" or 3/8" Per dozen **\$.30**

5/16" Brass Parallel Target Piles Per dozen **\$.30**

5/16", 11/32" or 3/8" Steel Parallel Target Piles Per dozen **\$.40**

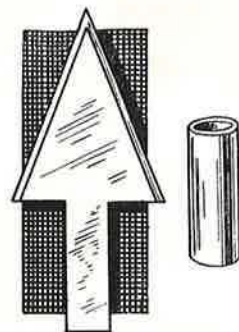
Steel Pile Long Tapered Points, 5/16" and 11/32" Per dozen **\$.75**

Rounded Steel Roving Heads 3/8" Per dozen **\$.50**
Copper **\$.35** doz.

Bullet jacket heads, 5/16", are target heads. The 3/8" bullet jacket makes a grand head for a knock-about arrow. It covers the 5/16" shaft entirely and prevents breakage. Brass and steel parallel pile heads, 5/16" are target heads. Long Tapered Pile Heads give weight and balance

to the arrow. The taper is solid steel and has exceptional penetrating qualities. It will not bounce from any target. Roving heads are for field arrows and are blunt to prevent sticking in trees.

ARROW MATERIALS HUNTING ARROWHEADS



1 1/2" Broadhead with tang and Brass Collar for 5/16" shaft.
Per dozen \$1.00
Shipping weights—8 ozs.



1 1/2" Lancet shaped small hunting blade; ferrule fits over 5/16" shaft.
Overall length 1 5/8"
Per dozen \$1.75
6 ozs.



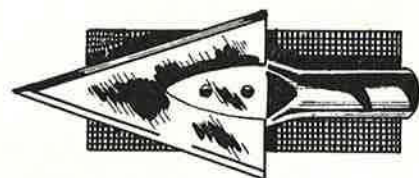
1 1/2" Hunting head; ferrule fits over 5/16" shaft; 2" overall length.
Per dozen \$1.75
6 ozs.



Practice Broadhead; ferrule fits over 3/8" shaft; 3" long overall.
Per dozen \$1.75
8 ozs.



"XL" Head. 2 1/2" Steel Pile Practice head. Same weight as large Hunting heads; fits over 3/8" shaft.
Per dozen \$2.00
1 lb.



Per dozen \$3.75 Shipping weight 1 lb.

The 1 1/2" broadhead with tang fits in a slot in the shaft; the brass collar fits over the end of a 5/16" shaft and secures the head. This head, the small lancet shaped head and the 1 1/2" head with ferrule are for small game. The Practice Broadhead is for knocking around the



Per dozen \$6.75 Shipping weight 1 lb.

Fish Spear Arrowhead, High Carbon Steel barbed prongs, 2 1/2" long, ferrule fits over 5/16" shaft.

woods. The "XL" head is for fitting to big game hunting shafts and permits practice at targets. The big broadhead is for big game, the large knife blade is spring steel and deadly. The Fish Spear head is for taking fish, frogs, etc.

NOTCHES

	Shipping Weight
Polished, Solid Aluminum Notches; ferrule cap style for 5/16" shafts; per doz.	\$.45 4 oz.
Pyroxylin, assorted colors, for 5/16" shafts; per dozen.....	.35 4 oz.
Hardwood Notches, Imported Cabinet Woods, inset dart type; per doz.35 4 oz.



Aluminum and Pyroxylin Nocks



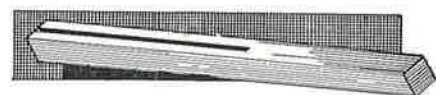
Hardwood Notches (Dark Red)

GLUE

Waterproof Glue, casein type; large package	\$.25 6 oz.
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WHOLE SELECTED TURKEY FEATHERS

Barred; per dozen	\$.25
Whites; per dozen30
Colored barred; per dozen35
Ground Base — Barred; per doz.	\$.35
Ground Base — White; per doz.50
Ground Base — Barred Colored; per doz.40
Ground Base — Whites Colored; per doz.60
Shipping weights — per dozen — 4 Ozs.	



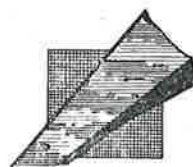
Square Arrow Footings

ARROW FOOTINGS

Imported Beefwood, slotted squares, 3/8" x 7"; per dozen	\$.50	Shipping Weight 1 lb.
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Prepared Feathers for Target Arrows Balloon shaped



Triangular Feathers for Hunting and Field Arrows

PREPARED TURKEY FEATHERS

Stripped, Balloon shape	\$.35
Stripped, Long Triangular50
Ground Base, Balloon shape50
Ground Base, Long Triangular75

Two gray and one colored make a set. Prices are per dozen sets.

Shipping Weight—per Dozen sets—4 Ozs.

RAW MATERIAL SETS

SET A:—All Raw Materials to make a 5'0" Long Bow and 6 arrows. Consists of:—
1—5'0" SEMI-FINISHED Blue Ribbon LEMONWOOD Bow Stave.
1—Piece of prepared flax twine to make a bowstring.
6—Birch arrow shafts, 5/16" x 25" long, with the notches cut and bullet jacket arrowheads attached.
6—Sets of prepared feathers.
1—Package of waterproof glue.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$1.85. Shipping weight 2 lbs.

SET B:—All Raw Materials to make a 5'6" Long Bow and 8 arrows. Consists of:—
1—5'6" SEMI-FINISHED Blue Ribbon LEMONWOOD Bow Stave.
1—Piece of prepared flax twine to make a bowstring.
8—Port Orford Cedar Arrow Shafts, 5/16" x 26" long, with string notches cut and brass pile heads on.
8—Sets of prepared feathers.
1—Package of waterproof glue.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$2.75. Shipping weight 3 lbs.

SET C:—All Raw Materials to make a 6'0" Long Bow and 8 arrows. Consists of:—
1—6'0" SEMI-FINISHED Blue Ribbon LEMONWOOD Bow Stave.
1—Piece of prepared flax twine to make a bowstring.
8—Port Orford Cedar Shafts, 5/16" x 28" long, with pyroxylin notches and brass pile heads attached.
8—Sets of prepared feathers.
1—Package of waterproof glue.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$3.25. Shipping weight 4 lbs.

SET D:—All Raw Materials to make a 5'0" Flat

LEMONWOOD Bow and 6 arrows. Consists of:—
1—5'0" SEMI-FINISHED Blue Ribbon Flat Bow Stave.
1—Piece of prepared flax twine to make a bowstring.
6—Birch arrow shafts, 5/16" x 25" long, with the notches cut and bullet jacket arrowheads attached.
6—Sets of prepared feathers.
1—Package of waterproof glue.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$1.85. Shipping weight 3 lbs.

SET E:—All Raw Materials to make a 5'6" Flat LEMONWOOD Bow and 9 arrows. Consists of:—
1—5'6" SEMI-FINISHED Blue Ribbon Flat Bow Stave.
1—Piece of prepared flax twine to make a bowstring.
9—Port Orford Cedar shafts, 5/16" x 27" long, with colored pyroxylin notches and brass pile heads on the shafts.
9—Sets of prepared feathers.
1—Package of waterproof glue.
1—Piece of leather for wrapped leather grip.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$3.00. Shipping weight 3 lbs.

SET F:—All Raw Materials to make a 5'8" Flat, Fibre Backed LEMONWOOD Bow and 12 arrows. Consists of:—
1—5'8" SEMI-FINISHED Blue Ribbon Flat Bow Stave, backed with black fibre.
1—Laid and Tapered finished bowstring.
12—Port Orford Cedar shafts, 5/16" x 28" long, with colored pyroxylin notches and brass pile heads on the shafts.
12—Sets of prepared feathers.
1—Package of waterproof glue.
1—Piece of leather for wrapped leather grip.
INSTRUCTIONS to finish the bow and arrows.
Per Set \$5.25. Shipping weight 4 lbs.

HUNTING ARROW MATERIALS SETS

- No. 4—Consists of 12 Birch Shafts, 5/16", 12 broadheads, 1 1/2" with tang and brass collar, 12 sets of long triangular feathers, waterproof glue and instructions; per set \$1.95. Shipping weight 2 lbs.
- No. 5—Consists of 12 Birch Shafts, 5/16", 12 Lancet or 1 1/2" broadheads with ferrule, 12 sets of long triangular feathers, waterproof glue and instructions; per set \$2.85. Shipping weight 2 lbs.
- No. 6—Consists of 12 imported Norway Pine shafts, 3/8" diameter, 12 Big Broadheads with 2 1/2" spring steel blades, 12 rawhide tabs for reinforcing nocks, 12 sets of long triangular feathers, waterproof glue and instructions; per set \$4.75. Shipping weight 4 lbs.

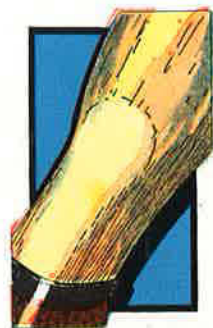
Note:—It is absolutely essential that you give the length of arrows you wish to make, or length of bow with which you wish to use them. If you do not give length, shafts will come 30" long, heads separate, so you may cut them down to the length desired and affix the head. See page 15 for arrow scale.

TARGET ARROW MATERIALS SETS

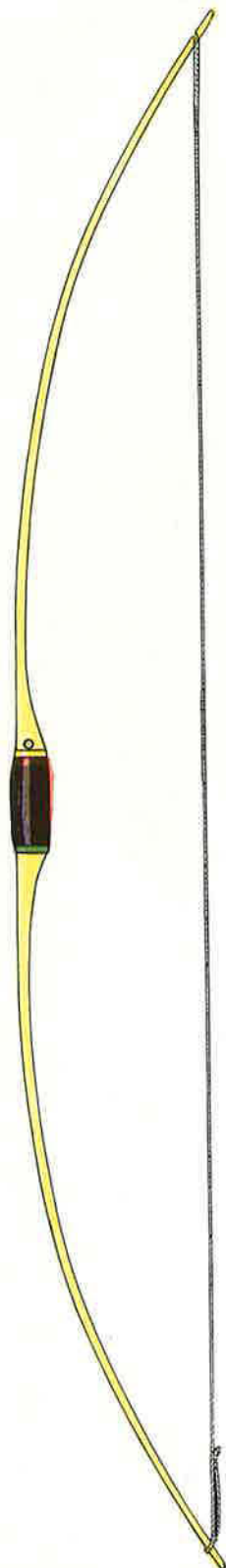
- No. 1—All raw materials to make 12 arrows; consists of a dozen 5/16" birch shafts, bullet jacket heads knurled on, notches cut and prepared feathers, waterproof glue and instructions; per set \$1.25.
- No. 2—SPECIAL SET—to make 12 Port Orford Cedar Arrows. Pyroxylin nocks on; brass pile heads on; shafts POLISHED. Clear space left for feathers (ready cut to go on) in equal thirds around the shaft. Marked spaces make it easy for you to do a perfect feathering job. Per set \$1.75.
- No. 3—All raw materials to make 12 Four Tailed Footed Arrows; consists of a dozen 5/16" Port Orford Cedar footed shafts, 12 brass parallel pile heads knurled on; pyroxylin nocks on shaft, prepared feathers, waterproof glue and instructions; per set \$3.75. Shipping Weight of above three sets 2 lbs.

FLAT LEMONWOOD BOWS · Plain Ends

THE AMERICAN FLAT BOW is a development of the past five years. Because it is wide and flat, it may be made shorter than a long bow and safely take the same length arrow. In other words, a 5'6" Flat Bow can take the same arrow length as a 6'0" long bow. Its shortness makes for sharp, fast action, and the narrow, high handle permits the arrow to pass nearer the center of the bow. Flat Bows are fast gaining in popularity. Men and grown boys take a 5'6" to 5'8" Flat Bow. You should be able to pull and loose your bow without too much effort, so 35 to 45 pounds is sufficient. Grown girls and women take a 5'3" or 5'6" Flat Bow. Pulls of 20 to 35 pounds are enough. Juveniles take bows the same height as themselves and with pulls of 15 to 25 pounds.



Handle of Flat Bow



Plain End Flat Bow

STYLE NUMBER	DESCRIPTION and PRICE					
1	Selected, perfectly seasoned Lemonwood. Handles are narrow, high and sharply dipped as shown. Leather wrapped grips. Limbs taper gracefully. Four ply, whipped flax strings. A lustrous polish finishes this bow of spectacular performance and cast. Bows are hand made and tested. (If you wish, these bows may be had stained cherry or walnut.)					
	LENGTHS	4'6"	5'0"	5'3"	5'6"	5'8"
	PRICE EACH	\$1.75	\$2.50	\$3.50	\$4.50	\$5.00
2	Made of picked Blue Ribbon Staves; beautifully finished and polished by hand. The handle overlay is a rare imported cabinet wood of a contrasting color; fine whipped strings; leather wrapped grips.					
	LENGTHS	4'6"	5'0"	5'3"	5'6"	5'8"
	PRICE EACH	\$3.00	\$4.00	\$4.50	\$5.00	\$5.50
3	Hand made from Royal Purple Processed Lemonwood Staves; flemished strings; wrapped leather grips; contrasting color riser. Polished a beautiful wine purple.					
	LENGTHS	5'3"	5'6"	5'8"		
	PRICE EACH	\$6.50	\$7.50	\$8.50		
4	"FACED", FLAT LIMBED LEMONWOOD BOWS. "Facing" a bow is a new technique in the art of bow making. It has long been known that a laminated bow shoots harder than a bow of a single piece of wood. We take a fine, flat, lemonwood stave and finish it into a bow. Then we apply a strip of Royal Purple Lemonwood, Acana or Golden Osage to the belly of the bow. These woods are noted for cast. Instead of using glue, the laminating is done with a PLASTIC, which makes an exceedingly strong, waterproof joint. The handle risers are of a contrasting color. The lustrous polish, the contrast of the woods used, the grip of fine embossed leather and the good, strong string, combine to make a weapon of unsurpassed beauty.					
	LENGTHS	5'6"	5'8"			
	PRICE EACH	\$8.00	\$8.50			

The Handle Risers on ALL Flat Bows are joined to the stave with a PLASTIC, and are not "glued". They are on to stay.

BACKED PLAIN ENDED FLAT BOWS:-Any of the above bows may be had backed with Rawhide — a clear, parchment-like skin — or fibre (red, black or white). Add to the cost of a Flat Bow, the following extras to get the price of a BACKED FLAT BOW:-

LENGTHS	4'0"	4'6"	5'0"	5'3"	5'6"	5'8"
EXTRA FOR BACKING	\$.75	\$.75	\$1.00	\$1.25	\$1.25	\$1.50

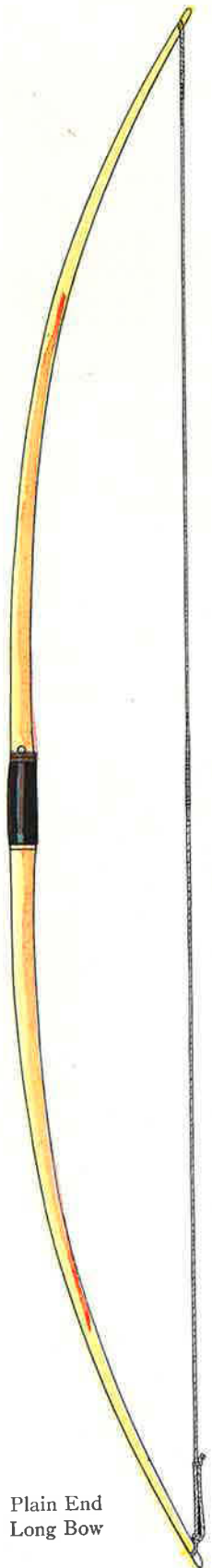
SHIPPING WEIGHT:-4'0" and 4'6" bows 2 pounds; 5'0" to 5'8" bows 3 pounds each.

LEMONWOOD LONG BOWS · Plain Ends

THE LONG BOW is the bow of song and story. Its traditional shape has come down through the ages. It is long and narrow, with rounded belly and flat back. Men take a 6'0" Standard Long Bow, with drawing pulls of from 35 to 45 pounds for ordinary shooting. Girls and women take a 5'6" Long Bow with pulls of from 20 to 35 pounds. Youngsters take bows the same height as themselves, and with pulls of 15 to 25 pounds. A bow should not be so strong that you cannot pull and loose the string with ease and comfort.



Handle and Tip of Plain End Long Bow



Plain End Long Bow

STYLE NUMBER	DESCRIPTION and PRICE					
10	A fine bow for beginners; a good, low priced weapon. Hand made; well finished and polished; velour or braid gimp padded handles; strong, whipped strings; tested.					
	LENGTHS	4'6"	5'0"	5'3"	5'6"	6'0"
	PRICE EACH	\$1.50	\$2.25	\$3.25	\$3.75	\$4.25
11	A hand made, well appointed Long Bow; nicely finished and polished; padded, leather wrapped grips; whipped, strong strings; pearl arrow plates on 5'6" and 6'0" sizes; tested.					
	LENGTHS	4'6"	5'0"	5'3"	5'6"	6'0"
	PRICE EACH	\$2.00	\$2.50	\$3.75	\$4.50	\$5.50
16	An exceptionally fine Long Bow made with extra high, narrow, dipped handle. Beautifully finished and polished; flemished string; pearl arrow plates; well tested.					
	LENGTHS	5'0"	5'3"	5'6"	6'0"	
	PRICE EACH	\$3.75	\$4.75	\$5.50	\$7.00	
20	Made from Royal Purple Processed Lemonwood Staves. Pearl arrow plates; fine strings, whipped; wrapped, padded leather grips; a fine bow of a deep, rich, wine color; beautifully polished and hand made throughout; well tested.					
	LENGTHS	5'6"	6'0"			
	PRICE EACH	\$7.50	\$8.50			
21	Plain Ended Long Bow "Faced" with Royal Purple Lemonwood, Acana or Golden Osage; flattened on the belly to take full advantage of the lamination of woods (done with a PLASTIC); fine whipped bow strings; wrapped leather grips; narrow, high, dipped handles; a lustrous polish and finish; hand work by master craftsmen; bows of grace, cast and real beauty.					
	LENGTHS	5'6"	6'0"			
	PRICE EACH	\$8.00	\$8.50			
	BACKED PLAIN END LONG BOWS:-Any of the above bows may be had backed with rawhide — a clear, transparent skin — or fibre (red, black or white). To arrive at the cost of a BACKED PLAIN END LONG BOW, add the following extras to the cost of a plain long bow.					
	LENGTHS	5'0"	5'3"	5'6"	6'0"	
	EXTRA FOR BACKING	\$1.00	\$1.25	\$1.25	\$1.50	

SHIPPING WEIGHTS:-4'0" and 4'6" Long Bows 2 pounds; 5'0", 5'3", 5'6" and 6'0" Long Bows 3 pounds.

Plastic or Fibre Tipped LEMONWOOD LONG BOWS



Plastic Bow Tips

Tips add beauty and grace to the bow. They cover the ends and provide for the string notches. Plastic and Fibre tips are very serviceable and will stand lots of abuse. Each of our bows is made from a carefully selected, perfectly seasoned stave of Lemonwood. They are all made by hand, and by bowyers who have been turning out beautiful tackle at the same bench for fifteen years and more.

The same lengths and drawing pulls as are given for Plain End Long Bows apply to these fine plastic and fibre tipped weapons.



Fibre Tips

STYLE NUMBER	DESCRIPTION and PRICE					
12	Genuine, polished PLASTIC tips; wrapped, padded grips of soft leather, whipped strings; pearl arrow plates on 5' 6" and 6' 0" sizes; well finished and polished. (With steer horn or fibre tips if desired); tested.					
	LENGTHS	4'6"	5'0"	5'3"	5'6"	6'0"
	PRICE EACH	\$2.50	\$3.50	\$4.50	\$5.50	\$6.50
17	Extra high, narrow, dipped handles; PLASTIC tips; beautifully finished and polished; fine whipped strings; pearl arrow plates; wrapped leather grips; tested.					
	LENGTHS	5'0"	5'3"	5'6"	6'0"	
	PRICE EACH	\$5.00	\$5.50	\$6.50	\$7.50	
20H	Made from Royal Purple Processed Lemonwood Staves; PLASTIC tips; pearl arrow plates; fine flemished strings; wrapped leather grips; beautifully finished and polished a rich, wine purple.					
	LENGTHS	5'6"	6'0"			
	PRICE EACH	\$8.00	\$9.00			
21HF	"FACED" Long Bows of Royal Purple on Lemonwood; Acana or Golden Osage on Lemonwood; flattened belly; narrow, high, dipped handles; embossed leather grips; fine whipped strings; beautifully finished and polished; exceptional cast and grace; all laminating done with PLASTIC.					
	LENGTHS	5'6"	6'0"			
	PRICE EACH	\$8.50	\$8.75			
	BACKED, TIPPED LONG BOWS:-Any of the above bows may be had backed with rawhide (a clear, transparent, parchment-like skin) or fibre (red, black or white). Add to the cost of the above bows the following extras for BACKED TIPPED LONG BOWS.					
	LENGTHS	5'0"	5'3"	5'6"	6'0"	
	EXTRA FOR BACKING	\$1.00	\$1.25	\$1.25	\$1.50	
	SHIPPING WEIGHT:-4'6" bows 2 pounds; all other lengths 3 pounds.					

Tipped Long Bow

OSAGE ORANGE BOWS

OSAGE ORANGE FLAT TYPE BOWS are 5' 6" to 5' 10" long, with drawing weights up to 65 pounds. They are plain ended, hand polished to the beautiful yellow-gold of osage. The extra fine, whipped strings are hand made. The grips are embossed leather. They are bows anyone would be proud to own. The plain bows are \$15.00 each; backed with select white hickory, joined to the osage with a PLASTIC (or rawhide), they are \$16.50 each.

OSAGE ORANGE LONG BOWS are 5' 6" to 6' 0" long, with drawing weights to 65 pounds. Description as above, but may be had with beautiful plastic bow tips if desired. They are \$16.50 Each.

YEW BOWS—The same descriptions and prices apply to yew bows

YOUTHS'~ADULT ARCHERY SETS

ARCHERY SETS WITH LONG BOWS

	Per Set	Shipping Weight
5'0" Lemonwood Long Bow, 6 Arrows, 24" long, Tabs, Armguard, a 24" Paper Target Face and Pamphlet.....	\$4.50	5 lbs.
5'6" Lemonwood Long Bow, 6 Arrows, 26" long, Quiver and Belt, Tabs, Armguard, a 24" Paper Target Face and Pamphlet....	\$8.25	6 lbs.
6'0" Lemonwood Long Bow, 6 Arrows, 28" long, Quiver and Belt, Tabs, Armguard, a 24" Paper Target Face and Pamphlet....	\$8.75	6 lbs.

ARCHERY SETS WITH FLAT BOWS

	Per Set	Shipping Weight
5'0" Flat Lemonwood Bow, 6 Arrows, Tabs, Armguard, a 24" Paper Target Face and a Pamphlet.....	\$4.75	6 lbs.
5'6" Flat Lemonwood Bow, 6 Arrows, 27" long, Quiver with Belt, Tabs, Armguard, a 24" Paper Target Face and Pamphlet.....	\$7.75	6 lbs.
5'8" Flat Lemonwood Bow, Black Fibre Backed, 6 Arrows, pyroxylin nocks, 28" long, Quiver with Belt, Tabs, Armguard, a 24" Paper Target Face and a Pamphlet.....	\$9.50	6 lbs.

The Long Bows and the Flat Bows in these sets are of selected, seasoned LEMONWOOD. They are plain ended, sturdy, strong and hard shooting. They are beautifully finished and polished, have padded grips of wrapped on soft leather and fine, strong, handmade strings. The arrows are polished and decorated and will stand lots of use. The fine armguards are of four ounce strapleather, a good, heavy grade, felt lined and with elastic arm straps. The "Tabs" are of special, tough leather. The quivers are made of real leather with a soft, suede-like texture, and come with a belt and side sling for side wear. The paper faces are in the five regulation archery colors and are intended for pasting on corrugated board. "The Fundamentals of Archery", our pamphlet, is a new one with nine large cuts showing how to brace a bow, how to aim and shoot, different archery rounds, etc., and gives the fundamentals of the sport. The sets are well packed in corrugated boxes for safe shipment.

HUNTING BOWS

HUNTING with the bow and arrow is growing by leaps and bounds. It would be difficult to put your finger on any one definite reason for the astonishing number of archer-hunters. True, the bow and arrow is the weapon of the real conservationist, and you certainly give our fast vanishing game every chance; but we think there is a more fundamental reason back of it all. Deep in every male is the primitive urge to hunt and use the archer's weapons. When we were young, we all made some sort of a bow, and played shooting buffalo and what not. To find this "shooting with the bow and arrow" may still be enjoyed in adult life, is a distinct pleasure and a satisfying, enjoyable discovery. We all longed for real "bows'n'arrows", and, as a grown-up we can have them. The pleasure one gets in picking up and hefting a good hunting bow, pulling the tough cord that fights you every inch of the arrow length, and then watching the arrow whizz away, is soul satisfying. Many states have recognized the growing numbers of archer-hunters and have made provision for this style of hunting by setting aside game preserves and designating hunting seasons when the bow and arrow may be used.



HUNTING BOWS—LEMONWOOD—LONG BOW TYPE—PLAIN ENDED

LENGTHS	5'0"	5'6"	5'8"	5'10"
PRICE EACH.....	\$3.75	\$4.50	\$5.00	\$6.00



HUNTING BOWS—LEMONWOOD—FLAT BOW TYPE—PLAIN ENDED

LENGTHS	5'0"	5'6"	5'8"	5'10"
PRICE EACH	\$4.25	\$5.00	\$6.00	\$6.75

Hunting Bows are hand made of Blue Ribbon Staves. They are well finished and polished, have wrapped leather grips, extra strong, whipped strings. They are rugged, sturdy weapons built for the work intended.

The 5'0" and 5'6" Lemonwood Hunting Bows are for juniors. They pull from 25 to 45 pounds. The 5'8" and 5'10" lengths have pulls of from 45 to 60 pounds.

OSAGE ORANGE HUNTING BOWS—FLAT OR LONG BOW TYPE—PLAIN ENDED

LENGTHS	5'6"	5'8"	5'10"
PRICE EACH.....	\$16.00	\$17.00	\$18.00

For bows with pulls over 60 pounds, Osage Orange is the best and most dependable wood. It is sturdy and strong and will stand lots of abuse. A tough, trusty weapon that does the work and does it well is required, and Osage fills the bill. Osage Hunting Bows are hand made, well finished and polished, are fitted with extra strong tapered strings. Grips are leather, wrapped on, and drawing pulls are from 45 to 75 pounds.

BACKED HUNTING BOWS:—Lemonwood and Osage Orange Bows may be had backed with Clarified Rawhide, which adds extra protection to the back. Add to the price of the above bows, the following extras to get the price of BACKED HUNTING BOWS.

LENGTHS	5'0"	5'6"	5'8"	5'10"
EXTRA FOR BACKING	\$1.00	\$1.25	\$1.50	\$1.50

SHIPPING WEIGHTS: 5'0" Bows 3 pounds; all other lengths 4 pounds.



Osage Orange Hunting Bow

ARROWS

TARGET ARROWS



THE PRACTICE—A plain unpolished arrow, decorated below feathers, 5/16" Birch, hand fletched with three turkey feathers and waterproof glue, ferrule head. For those who wish to polish and decorate to suit individual taste. Per dozen \$2.00. With pyroxylin nocks \$2.75 dozen.



THE NORMAN—Birch or Port Orford Cedar Shaft, polished and decorated, ferrule or brass pile heads, hand fletched with three turkey feathers and waterproof glue. Birch \$2.50 dozen. Port Orford Cedar \$3.00 dozen. Port Orford Cedar with pyroxylin nocks \$3.25 dozen.



THE KNIGHT—Colored pyroxylin nocks, carefully selected, polished, decorated and crested shafts of Port Orford or Norway Pine, steel pile heads. Per dozen \$4.25.



THE YEOMAN—Beautiful pyroxylin nocks, Port Orford Cedar, polished, decorated and beautifully crested, steel pile, long tapered heads. Matched for close target work. Per dozen \$5.00.

THE TOURNAMENT—Port Orford Cedar or Imported Norway Pine shafts; the molded pyroxylin nocks and the beautiful cresting combine to make a harmonious color scheme; special shaped feathers; pile heads. These arrows are matched by shooting so that very high scores may be made with them. Per dozen \$7.50.

FOOTED TARGET ARROWS



THE HAWK—Port Orford Shaft, polished and decorated, four-tailed purple hardwood footing, pyroxylin nocks, brass pile heads knurled on. Per dozen \$6.00.



THE FALCON—A four-tailed footed arrow, steel pile head, long tapered or regular target pile, pyroxylin nocks, Port Orford shaft handsomely decorated and polished—good for scores of 500 or better. Per dozen \$9.00.



THE GOLDEN EAGLE—A four-tailed footed arrow, steel pile head, beautifully crested and decorated, polished Norway Pine or Port Orford Cedar shaft, pyroxylin nocks, matched for tournament work. Per dozen \$12.00.

SHIPPING WEIGHTS:—All the above arrows, 2 pounds per dozen.

When ordering The Knight, Yeoman, Tournament or Footed Target Arrows, it is well to give us the weight of the bow in which they are to be used.

DON'T USE ARROWS TOO LONG FOR YOUR BOW

The Following Scale Gives You Correct Length			
Length of Bow	Length of Arrow	Length of Bow	Length of Arrow
4'0"	21"	5'3"	25"
4'6"	23"	5'6"	26"
5'0"	24"	6'0"	27" or 28"

FIELD AND ROVING ARROWS



THE ROVING—Tough Selected Birch, polished and decorated, rounded rustless head; for rough field shooting. The rounded head prevents arrow sticking in trees. Per dozen \$3.75. Shipping weight 2 lbs.



THE WOODLAND—An arrow for field shooting and roving; tough birch shaft, polished and decorated, oversized long tapered steel pile head, long triangular feathers. A tough, sturdy arrow for rough work. Per dozen \$4.25. Shipping weight 2 lbs.



TARGET HUNTING—Intended to permit target practice with a Hunting Arrow. In all respects like the Big Game Hunting Arrow, except that it has our "XL" head. Norway Pine 3/8" shaft, polished and decorated, long triangular feathers. Per dozen \$5.50. Shipping weight 4 lbs.

FLIGHT ARROW



THE FLIGHT—Carefully selected Port Orford Cedar Shaft, decorated and polished, small flight heads, extra small triangular feathers, inlaid nocks. For long distance shooting only. Lengths up to 30 inches. Per dozen \$5.00. Shipping weight 2 lbs.

HUNTING ARROWS



THE RED FOX—A low priced hunting arrow, sharp 1 1/2" steel head, with brass collar, big enough for deer and small enough for rabbits, decorated and polished birch shaft, long triangular feathers. Per dozen \$4.25. Shipping weight 3 lbs.



THE LANCET—Selected 5/16" polished shaft, nicely crested and decorated 1 1/2" Lancet Hunting Head. [Long triangular feathers. A fast arrow for small game. Per dozen \$4.75. Shipping weight 3 lbs.



THE DEERSLAYER—Tough birch shaft, decorated and polished, long triangular feathers, 1 1/2" steel broadhead with ferrule. Per dozen \$4.75. Shipping weight 3 lbs.



THE BIG GAME—Straight 3/8" Norway Pine Shaft, polished and decorated 2 1/2" spring steel bladed broadhead, long triangular feathers, reinforced nocks. For deer, moose, bear, etc. Per dozen \$7.50. Shipping weight 4 lbs.

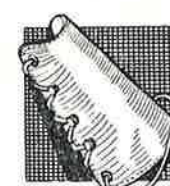


THE FISH HAWK—An arrow for taking fish, frogs, etc. Polished and decorated, tough birch shaft fletched with long triangular feathers. The head is a three pronged, barbed fish spear. Per dozen \$9.50. Shipping weight 4 lbs.

ACCESSORIES



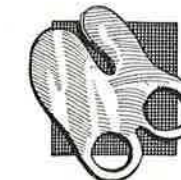
Arm guard of heavy cowhide, design in silver, two wide webbed elastic fasteners, green felt lined. Each \$1.00. Shipping weight 4 ozs.



Arm guard with lace and hooks, green felt lined. Heavy Cowhide Each \$1.00. Shipping weight 4 ozs.



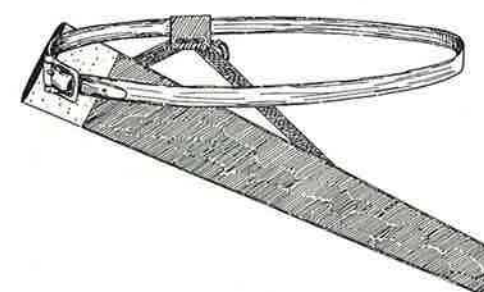
Arm guard of heavy cowhide, leather straps with adjustable snaps. Embossed design. Each \$1.50. Shipping weight 4 ozs.



Finger protectors, "TABS" of tough leather. Each \$.20. Shipping weight 2 ozs.



Finger guards, semi-glove style, fancy leather backs, tips of tough leather, strap and adjustable snaps. A large and small size. Each \$1.25. Shipping weight 4 ozs.



Quiver with side sling and belt, soft suede-like leather; 18" and 23" long; will hold a dozen arrows. 18" Each \$1.75. 23" Each \$2.25. Shipping weight 1 lb.



Heavy simulated pigskin. Decorated leather cuffs. Leather belt. A distinctive quiver. 18" Long — Each \$1.25. 22" Long — Each \$1.50. Shipping Weight 3 lbs.



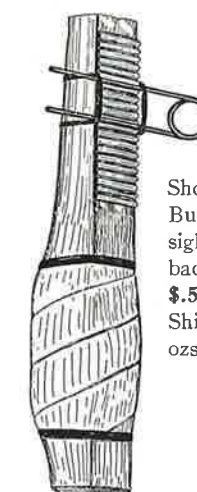
Quiver — Genuine, heavy cowhide, hand made throughout, sole leather bottom; leather belt. 18", 23" and in hunting size. Arrows 26" to 28" long take a 23" quiver. Shorter arrows take the 18" length. May be had with sling and belt for side wear if desired. 18" Long—Each \$2.50. 23" Long—Each \$2.75. Shipping weight 1 lb. Hunting Quiver—23" Long—\$3.75 Each. Shipping weight 3 lbs.

Quiver Materials	Each	Shipping Weight
Set for 18" Quiver.....	\$1.75	1 lb.
Set for 23" Quiver.....	2.00	2 lbs.
Set for 23" Hunting Quiver.....	2.75	3 lbs.

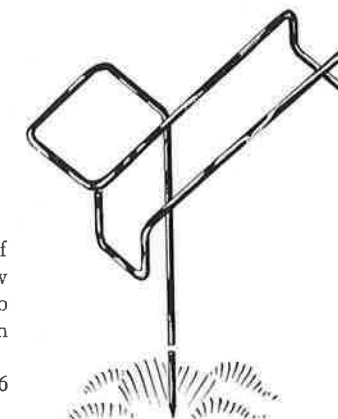
Consisting of heavy leather cut to size, holes punched, sole leather bottom with holes punched, piece of leather lacing, strap and buckle, two D rings, snaps and rivets, so you may make either belt or shoulder quiver.

	Each	Shipping Weight
Set for 18" quiver	\$1.00	1 lb.
Set for 23" quiver	1.25	1 lb.

Consisting of firm bodied, soft, suede-like leather, dark brown or black, cut to approximate quiver shape, with buckle and sufficient strips to make a belt and side sling.



Showing Position of Bull's Eye Bow sight attached to back of bow. Each \$.50. Shipping weight 6 ozs.



Wire ground quiver made of heavy, copper coated wire to thrust into ground, arrows stand in loop, double hooks for bow. Each \$.50. Shipping weight 4 lbs.

Point of Aim Marker, for establishing your point-of-aim when target shooting. White wooden ball with coppered steel ground pin. Each \$.25. Shipping weight 2 ozs.

ACCESSORIES

BOW STRINGS



Bow strings
flax, linen
tapered, etc.

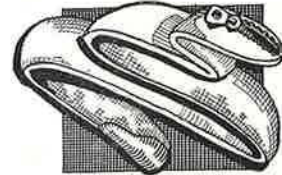
Extra strong, cable laid. *Each* \$.25
 Fine hand laid, 3 ply. .50
 Tapered both ends, hand laid, 3 ply. .75

Deluxe string of superfine fibre. Thin, fast, and of exceptional strength. 1.25

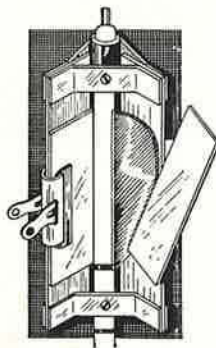
All strings have special finish and come with spliced loops. Be sure to give length of bow for which you want the string. Shipping weight of all strings 2 Ozs.



Score pad, 75 pages, ruled for archery rounds. Each \$.25
 Shipping weight 6 ozs.



Bow case. Waterproof, leatherette, felt lined, zipper top. For both 5'6" and 6'0" bows. Each \$1.75.
 Shipping weight 1 lb.



Feathering Jig. A simple device for attaching three feathers to a 5/16" target shaft. Instructions with jig. Each \$1.50

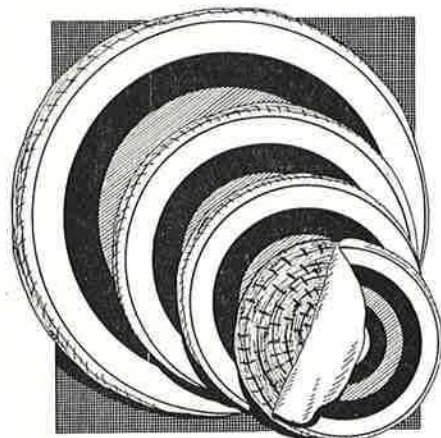
Feathering Jig with 4 1/2" feather space for hunting shafts. Each \$1.75

Shipping weight of Jigs 1 lb.

A generous colored wool yarn tassel with leather strap for belt attachment. For wiping soiled arrows. Each \$.35.
 Shipping weight 1 oz.



HAND COILED REGULATION RYE STRAW ARCHERY TARGETS



THE TOURNAMENT

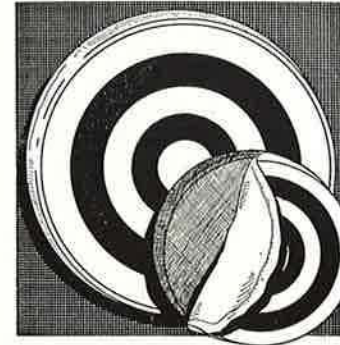
An exceptionally well made target for tournament and club use. Very tightly bound with tarred marlin, 7" thick, weight about 75 pounds. Slip-on face of heavy oilcloth. Dull, non-glare colors used. Each \$15.00

Hand made Regulation Archery Targets are made of long fibred rye straw very tightly bound and coiled. With ordinary care, they should last several seasons. The oilcloth faces are painted in standard non-glare colors — gold, red, blue, black and white.

Diameter	Thickness	Each	Shipping Weight lbs.
24"	4 "	\$4.25	15
30"	4 1/2"	5.00	20
36"	5 "	8.00	45
48"	6 "	12.50	75

TARGETS

NEW LIGHT WEIGHT PRACTICE TARGETS



Bound rye straw, faced and backed with corrugated oilcloth skirt reinforcing; paper faces in regulation archery colors. A very neat looking target that will give plenty of service.

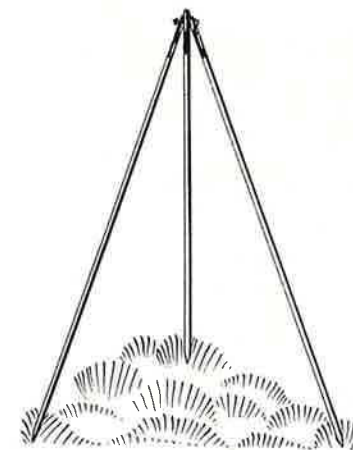
Diameter	Thickness	Each	Shipping Weight in lbs.
24"	4"	\$2.75	6
30"	5"	3.50	15
36"	6"	4.75	20

EXTRA TARGET FACES

Diameter	Slip-Ons Each	Flat Faces Each	Shipping Weight
24"	\$.90	\$.65	1 lb.
30"	1.25	.80	2 lbs.
36"	1.35	.90	3 lbs.
48"	2.00	1.50	3 lbs.

Hand painted, non-glare colors, on best quality oilcloth. There are two kinds of Target Faces. The regular flat face is sewn to the target. The slip-on variety has an extra flap with a draw string, and goes on the target like a tire cover.

WOODEN TARGET STANDS



Wooden Target Stands finished in clear lacquer, colored tops. Targets are hung over the tripod by means of a rope sling, so they cannot blow off the stand.

5'0" stands for 24" and 30" targets.
 6'0" stands for 36" and 48" targets.

Size	Each	Shipping Weight
5'0"	\$1.75	5 lbs.
6'0"	\$2.00	6 lbs.



PAPER TARGET FACES

Diameter	Price	Shipping Weight
24"	\$1.75 Dozen	2 lbs. dozen
36"	.30 Each	4 oz. each
48"	.60 Each	8 oz. each

ROUND BURLAP TARGET SACKS

For those wishing to make their own targets, we have prepared strong, round burlap sacks in four sizes. You stuff these sacks with straw, hay, or any convenient filler, sew or tuft them in several places, adjust a slip-on target face and your target is ready.

Diameter	Each	Shipping Weight
24"	\$.60	1 lb.
30"	.75	2 lbs.
36"	1.00	2 lbs.
48"	1.25	3 lbs.

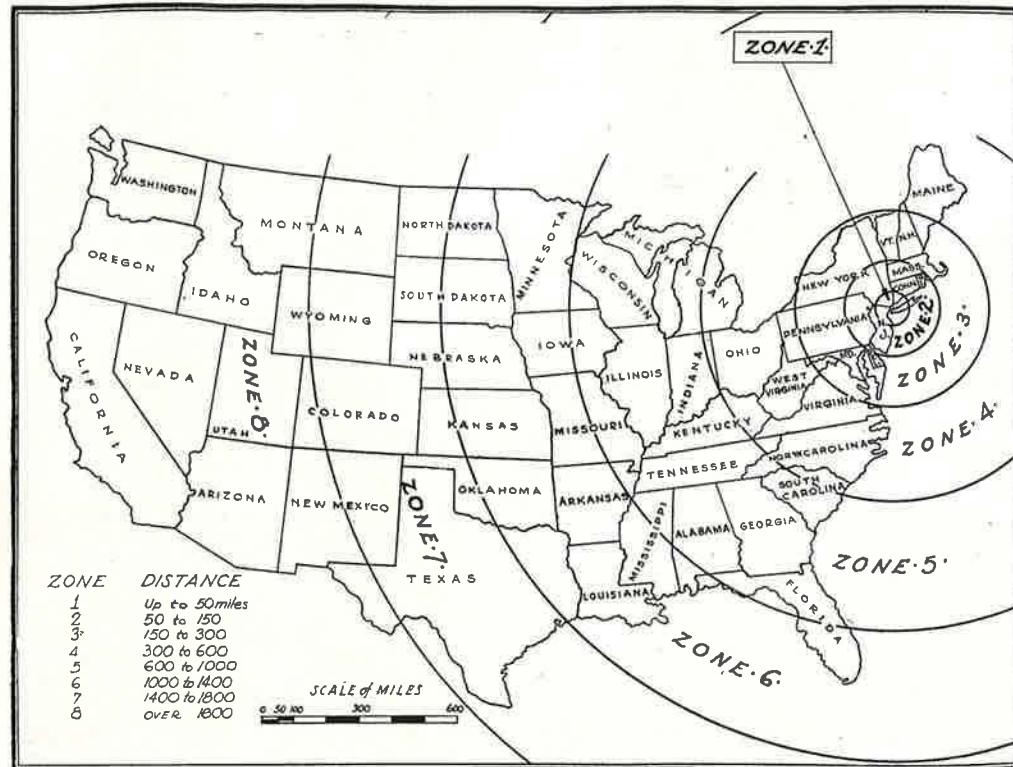
NOVELTY PAPER TARGETS

Everyone knows the story of William Tell and the shooting of the apple. The figure of a medieval boy is 36" x 12", and is lithographed in five colors. It is a work of art, painted by a well-known artist. Per dozen \$1.00. Shipping weight 2 lbs.

Colored ducks—6" x 12"—beautifully lithographed in five colors. Per dozen \$.50. Shipping weight 1 lb.

These novelty paper targets, when mounted on cardboard, offer new and interesting features to target shooting.

PARCEL POST RATES



2 ounces or less.....1½ cents
 3 or 4 ounces.....3 cents
 5 or 6 ounces.....4½ cents
 7 or 8 ounces.....6 cents

The above rates apply to any zone. Over 8 ozs. up to 1 pound (16 ozs.) allow the pound rate for your zone, according to the table of rates.

How To Figure Parcel Post Charges

The shipping weight of each article is given. Add the pounds and ounces, and change the ounces into full pounds. For example—if the total weight of your order is 5 pounds 4 ounces, it will take the 6 pound rate. If you live in Illinois, which is zone 5, your postage would be 38 cents.

If there is any question about the postage you wish to be certain of, ask your postmaster.



We have in our files hundreds of unsolicited letters of commendation. We thought you might like to hear what others say of us. These letters are available for inspection at any time.

Shipping Weight	Local Zone	Zones 1 and 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
1 lb.	\$.07	\$.08	\$.09	\$.10	\$.11	\$.12	\$.14	\$.15
2 lbs.	.08	.10	.11	.14	.17	.19	.23	.26
3 lbs.	.08	.11	.13	.17	.22	.26	.32	.37
4 lbs.	.09	.12	.15	.21	.27	.33	.41	.48
5 lbs.	.09	.13	.17	.24	.33	.40	.50	.59
6 lbs.	.10	.14	.19	.28	.38	.47	.59	.70
7 lbs.	.10	.15	.21	.31	.43	.54	.68	.81
8 lbs.	.11	.16	.23	.35	.49	.61	.77	.92
9 lbs.	.11	.17	.25	.38	.54	.68	.86	1.03
10 lbs.	.12	.18	.27	.42	.59	.75	.95	1.14
11 lbs.	.12	.19	.29	.45	.64	.82	1.04	1.25
12 lbs.	.13	.21	.31	.49	.70	.89	1.13	1.36
13 lbs.	.13	.22	.33	.52	.75	.96	1.22	1.47
14 lbs.	.14	.23	.35	.56	.80	1.03	1.31	1.58
15 lbs.	.14	.24	.37	.59	.86	1.10	1.40	1.69

Shipping Weight	Local Zone	Zones 1 and 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
16 lbs.	.15	.25	.39	.63	.91	1.17	1.49	1.80
17 lbs.	.15	.26	.41	.66	.96	1.24	1.58	1.91
18 lbs.	.16	.27	.43	.70	1.02	1.31	1.67	2.02
19 lbs.	.16	.28	.45	.73	1.07	1.38	1.76	2.13
20 lbs.	.17	.29	.47	.77	1.12	1.45	1.85	2.24
21 lbs.	.17	.30	.49	.80	1.17	1.52	1.94	2.35
22 lbs.	.18	.32	.51	.84	1.23	1.59	2.03	2.46
23 lbs.	.18	.33	.53	.87	1.28	1.66	2.12	2.57
24 lbs.	.19	.34	.55	.91	1.33	1.73	2.21	2.68
25 lbs.	.19	.35	.57	.94	1.39	1.80	2.30	2.79
26 lbs.	.20	.36	.59	.98	1.44	1.87	2.39	2.90
27 lbs.	.20	.37	.61	1.01	1.49	1.94	2.48	3.01
28 lbs.	.21	.38	.63	1.05	1.55	2.01	2.57	3.12
29 lbs.	.21	.39	.65	1.08	1.60	2.08	2.66	3.23
30 lbs.	.22	.40	.67	1.12	1.65	2.15	2.75	3.34

PLEASE NOTE BEFORE ORDERING

1. Be sure your name and address are plainly and legibly lettered.
2. Orders should be accompanied by remittance, otherwise they will be sent C.O.D. Postal money order is preferred.
3. C.O.D. orders result in extra expense to you. You are charged with a 12 cent service fee here and an extra charge of 6 cents at your end. If your C.O.D. order is over \$5.00 the total charges are about 28 cents. These charges go to the postal authorities. You save money by remitting with your order. C.O.D. shipments by express are subject to similar charges.
4. ALL ORDERS ARE F.O.B. QUEENS VILLAGE, L. I., N. Y. You pay the transportation charges. Information to enable you to figure parcel post costs is given in the catalog.
5. Parcel Post packages measuring over 84" are considered to be 10 pounds, whether they actually weigh

that much or not. Therefore, the most efficient and safest way to ship orders of three or more 6' bow staves, targets, target stands and packages of several bows is by express collect.

6. **Canadian Shipments:** Inasmuch as no postal C.O.D. exists between the U. S. and Canada, all Canadian orders must be accompanied by full remittance and allowance for prepayment. Since 42 inches is the measurement limit, most shipments go by express. Duty on archery tackle into Canada is about 20% of the value.
7. To obviate confusion in filing, if you are connected with a school, camp, Y.M.C.A., Scout council or other institution, will you kindly always give both the name of the organization and your own. If you send in an order on a Scout Council letterhead, it would be filed under that council's name. Later you might write us about it using your name only and we would experience difficulty in locating the original order.

"Yesterday I received the bow I ordered from you. It has far surpassed my fondest expectations. I have been roving with it this morning and words cannot describe how the bow shoots. It seems as though the bow is superhuman. All I had to do was to draw an arrow and let fly and the bow sent the arrow where I wanted it to go. The way the bow groups arrows in a two foot circle at 100 yards object shooting is stunning, and I am no wonderful shot either."

"I received your letter on May 10th and was very much pleased with my bow, because it broke my last year's record for distance."

"I have two of your bows, one purchased in 1927, the other in 1928; both have given excellent service and compare more than favorably with bows of other makers of considerably greater price."

"Having found satisfaction in my purchases from you two years ago I would appreciate your latest catalog."

"I received the bow you sent me in good condition. I sincerely appreciate your kindness and consideration in this matter. I will surely take every opportunity to tell my friends about your fairness and courtesy."

"The target face which you sent me has worked out very nicely. I thank you for helping me and giving me such prompt service."

"The staves and shafts reached me safely this afternoon. I feel like a kid with a package from Santa Claus. It would be difficult to fully express my appreciation of your kindness and interest as well as for the trouble you have taken for my pleasure. I can assure you that I shall, in the enjoyment of my bows and arrows, always recall your kindness with gratitude and a feeling of indebtedness. They are indeed beautiful staves and my fingers itch to begin their finishing and to do them justice."

"The 5'8" Flat Lemonwood bow and 2 dozen arrows which I ordered about a month ago are just as nearly perfect as anything that I have seen."

"I recently finished making a long bow from one of your Blue Ribbon Staves. The stave was in good condition and the results I got from it following your "The Essentials of Archery" are very satisfactory, especially since it is the first bow made by my own hands."

"I think your manual ("The Essentials of Archery") is great, and a big help to ones who are interested in the sport."

"I received the bow that I ordered from you and it is the finest bow I have ever seen for its price. I have shot it almost every day since I received it."

"Those long tapered steel target pile heads are honeys. Got them last week."

"It might interest you to know that our boy scout camp has just finished a most successful season. Never have I seen a handicraft project go over with greater success in our camp than your special bow and arrow sets have. The price of \$1.50 per set was excellently within the reach of any boy desiring to make a set."

"Received the new bow last Saturday and it surely is a beauty. It shoots wonderful and is the snappiest outfit I've had the pleasure of using for a long time."

"I have used your archery supplies for some time and have had quite a bit of success in hunting and target work. The performance is excellent."

"Your card and my order arrived yesterday and I have to say that I could not have been more satisfied had I been in your shop in person."

"I have just received the bow I ordered from you; it arrived in very good condition. I purchased another one of your bows about a year ago and I find they are of superior craftsmanship as well as being at reasonable prices."